**THOMAS TOBIN**

MVB, MSc, PhD, MRCVS, DABT, 80-15, AMAORC

**Toxicologist/Pharmacologist/Veterinarian**

**SUMMARY CURRICULUM VITAE AND BIOSKETCH**

**Citations, 6,650, *h-*index 41, i10 index 165, ResearchGate Score, 2024 41.83**

**UK Royalties, US Patent #5,583,095 US$10M, UK ELISA Technology license, US$2.5M**

**https://orcid.org/0000-0001-8506-3147**

. <https://gluck.ca.uky.edu/directory/thomas-tobin> and [www.thomastobin.com](http://www.thomastobin.com).

<http://vetsci.ca.uky.edu/> <http://getgluck.ca.uky.edu/> <http://gluck.ca.uky.edu/>

https://toxicology.med.uky.edu/

**Address:** TheMaxwell H. Gluck Equine Research Center, Rm. 128C

Dept. of Vet. Sci., Univ. of KY, Lexington, KY, USA 40546-0099

Office: (859) 218 1092; Dept. 859 257 4757 UK Fax: (859) 257-8542

E-mail: ttobin@uky.edu; Personal e-mail: [thomastobin@me.com](mailto:thomastobin@me.com)

Personal cell, 1-859 229 9392

**Education:** MVB, (DVM), University College, Dublin, Nat. Univ. Ireland, 1964   
MSc, Pharmacology, University of Guelph, 1966   
PhD, Pharmacology, Medical Center, University of Toronto, 1970

MRCVS – Member, Royal College of Veterinary Surgeons, 1964-date

**Boards** DABT, Diplomate, American Board of Toxicology Inc., 1980-2015

**Emeritus** Founding Member 1978, Emeritus Fellow, 2021, American Academy of Veterinary Pharmacology and Therapeutics.

**Vet. Licenses** Licensed/eligible to practice in Ireland, 1964-date   
Licensed to practice in Ontario, Canada, 1964-1978

Overseas practicing member, Royal College of Veterinary Surgeons.   
Kentucky Veterinary License, NS-1053🡪146473, 1978-date

**Employment:** Professor of Veterinary Science, The Maxwell H. Gluck Equine Research Center, U.K., Professor, the Graduate Center for Toxicology / Department of Toxicology and Cancer Biology, UK, 1975-date

**INTELLECTUAL PROPERTY:**

**Patent Applications**

**Filed/Awarded**   
**1**) **1984**: US Patent # 4,473,640 for morphine detection: “Detection of Morphine and its analogues using enzymatic hydrolysis”.

**2)** **1999**: US Patent # 5,883,095 for treatment of EPM (1999) “Formulations and methods to treat and prevent Equine Protozoal Myeloencephalitis”.  
**3) 2004:** **US Patent Application number:** 20040053938” “[Novel method and device for treatment of exercise induced pulmonary hemorrhage in horses](http://patents.justia.com/patent/20040053938)”

**4/ 2005: US Patent Application number:** 20050043288 “[Composition and method for marking procaine penicillin](http://patents.justia.com/patent/20050043288)”

**5) 2006:** US Patent # 7,074,834 for an equine tranquilizer (2006); “Long acting, reversible veterinary sedative and analgesic and method of use.”  
**6) 2014:** US Utility Patent E-filing, Filing, Oz, H and **Tobin T** “Novel Compositions & Methods for Preventing & Treating Apicomplexan Related Disease” utility patent application E-filed August 4th, 2014, EFS ID: 19771622, Application Number: 14451337 International Application Number: N/A Confirmation Number: 496.

**LICENSED IPS/ COMPANIES:**

**1/** **1987-1989 International Diagnostic Systems**; Royalty arrangements for fentanyl, carfentanil, furosemide, acepromazine, cocaine, detomidine, phenylbutazone, alfentanil, sufentanil and 20-plus others, in ELISA and PCFIA formats.

**2/ 1991: WTT ELISA TESTS, Inc**., created by UK with licenses for 50- plus ELISA tests, 1991. Sold to Neogen, Inc., ELISA Technologies, 1993.

**3/ 1999: US Patent # 5,583,095** licensed to Bayer, first FDA approved treatment for Equine Protozoal Myeloencephalitis, marketed as **Marquis®**, August 2001, also (Fall, 2011) marketed as **Protazil®** by Merck Animal Health.

**4/ 1999**: 20 equine medication metabolites/regulatory analytes/deuterated standards, research quality, licensed to Neogen, Inc.

**5/ 2011:** 20 plus other metabolites/regulatory analytes/deuterated standards as Certified Reference Standards, licensed to Frontier BioPharm, March 2011 https://frontierbiopharm.com/Frontier%20BioPharm%20Products%20November%202020.pdf

**6/ 2012-2016:** University of Kentucky Intellectual Property involving novel therapeutic approaches to parasitic disease licensed for patenting and commercialization to VC Equine Research, Inc., September 24th, 2012. A provisional patent was filed by VC equine and a utility patent made possible by this Intellectual Property disclosure was filed on August 4th, 2014, as follows; US Utility Patent E-filing, Filing, Oz, H and **Tobin T** “Novel Compositions & Methods for Preventing & Treating Apicomplexan Related Disease” utility patent application E-filed August 4th, 2014, EFS ID: 19771622, Application Number: 14451337 International Application Number: n/a Confirmation Number: 496.

**COPYRIGHTS/ROYALTIES**

**2003:** Unusual mathematical analysis and biologically unique pathogenesis of the Mare Reproductive Loss Syndrome (MRLS) copyrighted (US Copyright# TXU1111484). Other copyrights and IP royalties.

**TEACHING** Toxicology, Pharmacology, “Ethics in Scientific Research,” “Risk Assessment,” International Short Courses: “The Commission Veterinarian/Equine Medical Director” 1995 to 2001, and “Testing for Therapeutic Medications, Dietary and Environmental Substances.” Six Kentucky Veterinarian’s Short Courses, 2000-2001. Bain-Fallon Lectures, Australia, 1990 and 2002. Workshop on Mare Reproductive Loss Syndrome (MRLS), August 2002, Published, May 2003. Ongoing lectures to Equine Program students, to Graduate Center for Toxicology students, Organized and presented The Tex Cauthen Hans Albrecht Farrier / Veterinarian / Researcher Seminars, January 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024 and 2025 in progress.

**HONORS/RECOGNITION:**

Ontario Government Faculty Training Grant 1967-70,

Massey College Junior Fellow, Massey College, University of Toronto, Ontario 1967-70,

Invited lecturer, Bain Fallon Lectures, Australia, 1989.

Graduate Center for Toxicology Student Award, 1993.

Toxicology rated the only *“extremely effective” graduate program in Kentucky by National Research Council,* 1992-93.

National Horsemen’s Benevolent and Protective Association [NBPA] Man of the Year, 1995,

Kentucky Colonel, Governor Paul Patton, 1997.

The **“Dr.** **Thomas Tobin Purse**,” August 1, Emerald Downs, Seattle, Washington, 1999.

Kentucky Horsemen’s Benevolent and Protective Association [HBPA] Man of the Year, 1999;   
Dubai Millennium Medal, 2001.   
Honorary faculty, College of Veterinary Medicine, Cordoba, Argentina, and “**Thomas Tobin** **Purse**”, Cordoba, Argentina, August 2001.

The **Professor Thomas Tobin Trophy**, Cayamanas Racetrack, Jamaica, April 20th, 2002.

Invited lecturer, Bain-Fallon Lectures, Gold Coast, Australia, July 2002, **Thomas Tobin** **Purse,** Sao Paulo, Brazil, 2007, Race won by Baroness Margarida Polak Lara, Primeira Dama do Turfe Brasileiro, and prize presented to her.

Kentucky Horsemen’s Benevolent and Protective Association [KBPA] Industrial Service Award, 2009,

Invited Lecturer Buenos Aires, Argentina, and Montevideo, Uruguay, July 2012,

Invited lecturer Union Nacional de Asociaciones Ganaderas Colombianas- UNAGA, Bogota, Colombia, 2015.

Guest of His Highness Sheik Mohammed bin Rashid al Maktoum, Vice President and Prime Minister of the United Arab Emirates and Emir of Dubai at the 2014, 2015, 2016 and 2017 Dubai World Cups and also made invited presentations at the Buhoot Equine Research Center, Marmoom, Dubai UAE, in association these visits.

Sixth WADA and Anti-Doping Laboratory Qatar, June 1st, 2016, invited lecture and invited to chair the conference closing session.

Invited lecturer, Union Nacional de Asociaciones Ganaderas Colombianas- UNAGA, Bogota, Colombia, 2017.

Thomas Tobin, October 8th, 2020: [https://youtu.be/Vc5-fcg1uPQ](https://nam04.safelinks.protection.outlook.com/?url=https%3A%2F%2Fyoutu.be%2FVc5-fcg1uPQ&data=02%7C01%7CThomas.Tobin%40uky.edu%7Cf6b1dbaca42e4dec9d5208d86c6e454d%7C2b30530b69b64457b818481cb53d42ae%7C0%7C0%7C637378568146805143&sdata=zfa%2BNUUnXBfT1TGYtTUT3ZoXRdW4DrOEAye4x8sQ%2FIA%3D&reserved=0) Video presentation, “An educational presentation about Zilpaterol to the Equine Community” sponsored by Glanbia, Ireland, Purcellsinch Business Park, IDA Ireland, Dublin Rd, Purcellsinch, Kilkenny, R95 E70V, presented by Gain Equine Nutrition to the English Equine Community and, with French subtitles, to the French Equine Community. [https://youtu.be/Vc5-fcg1uPQ](https://nam04.safelinks.protection.outlook.com/?url=https%3A%2F%2Fyoutu.be%2FVc5-fcg1uPQ&data=02%7C01%7CThomas.Tobin%40uky.edu%7Cf6b1dbaca42e4dec9d5208d86c6e454d%7C2b30530b69b64457b818481cb53d42ae%7C0%7C0%7C637378568146805143&sdata=zfa%2BNUUnXBfT1TGYtTUT3ZoXRdW4DrOEAye4x8sQ%2FIA%3D&reserved=0). for the French speaking equine feedstuff market.

Founding Fellow, 1978 and Emeritus Fellow, American Academy of Veterinary Pharmacology and Therapeutics, 11/11/ 2021

**RESEARCH SUPPORT:** Approximately $16 million through 2024.

**PUBLICATIONS:** Approximately 500 plus papers/communications/ drafts/submissions, approximately 420 plus invited presentations, numerous educational submissions and presentations including testimony in 1983 before the US Congressional Criminal Justice subcommittee, three awarded patents, numerous communications, four books, several volumes of proceedings, uncounted abstracts, 6,570 citations, more or less. ResearchGate score, 41.83, December 2024, score based on only three hundred or so publications. Numerous trade journal articles published.

**SELECTED BOOKS: 1)** *Drugs and the Performance Horse,* by **Thomas Tobin**. Foreword by HRH, Prince Philip, Duke of Edinburgh. 480 pp., Springfield, Illinois: Charles C. Thomas, 1981.

**2)** *Equine Drugs and Vaccines: A Guide for Owners and Trainers”* 1995. Eleanor Kellon and **Thomas Tobin**. Breakthrough Publications, Ossining, New York.

**3)** E*quine Drug Testing and Therapeutic Medication Regulation: 2008 National Policy of the National Horsemen’s Benevolent and Protective Association, Inc. Kent H Stirling and* ***Thomas Tobin****, 160* pages, Wind Publications, PO Box 24548, Lexington Kentucky 40524, wind @wind.org

**4*)*** *Equine Drug Testing and Therapeutic Medication Regulation:2009 National Policy of the National Horsemen’s Benevolent and Protective Association, Inc.* ***Thomas Tobin*** *and Kent H Stirling, 170 pages, Hardcover ISBN 978-1-893239-12-8 Softcover ISBN 978-1-936138-03-6 Wind Publications, PO Box 24548 Lexington Kentucky 40524, wind@wind.org*

**5)** World Rules for Equine Drug Testing and Therapeutic Medication Regulation *2012 Policy of the National Horsemen’s Benevolent and Protective Association* **Thomas Tobin**, Kimberly Brewer, Kent H. Stirling *CY 280* pages, February 2012, International Standard Book Number, 978-1-9361388-42-5, Library of Congress Number, 2001012345. Wind Publications, 600 Overbrook Drive, Nicholasville KY 40350

**6)** In translation into Spanish: Reglamentacion Mundial para Evaluacion de Drogas y Regulacion de Medicacion Terapeutica en Equinos; Política 2012 para la Asociación Nacional de Beneficencia y Protección de Jockeys. **Thomas Tobin**, Kimberly Brewer, Kent H. Stirling and Teresita Zambruno, Wind Publications, 600 Overbrook Drive, Nicholasville KY 40350, in progress.

**WORKSHOPS/ PROCEEDINGS/ SYMPOSIA:**

**1)** **Thomas Tobin**, Jerry W Blake and William E. Woods, 1979; The Third International Symposium on Equine Medication Control, Lexington, Ky, June 12,-14, 522 pages Published by the Department of Veterinary Science, University of Kentucky.

**2**/ **Thomas Tobin**, Jerry Blake, Mike Potter and Thomas Wood, 1988: Proceedings of the 7th International Conference of Racing Analysts and Veterinarians, Louisville, KY, April 10-13, 1988, 516 pages. Published by the Department of Veterinary Science, University of Kentucky.

***3****/* **Thomas Tobin***, George D Mundy, Scott D Stanley, Richard A Sams, and David L Crone; Proceedings of the Workshop on Testing for Therapeutic Medications, Environmental and Dietary Substances in Racing Horses.* 218 pages, 1995. Published by the Department of Veterinary Science, University of Kentucky.

**4)** “*Furosemide in the Horse: its actions effects and regulatory control*” A Testing Integrity Program Seminar held at The New Orleans Hilton Riverside, March 1, 1998. Convened by Richard Sams and Scott Stanley, Edited by J.D Harkins, Wyndee Carter and **Thomas Tobin**; Wind Publications, PO Box 54248, Lexington Kentucky, 40524 (wind@wind.0rg)

**5)** *Proceedings of the First Workshop on Mare Reproductive Loss Syndrome* [2003] *Powell, David G, Troppman, Amy and* ***Tobin, Thomas*** (Eds): 134 pages, The Maxwell H Gluck Equine Research Center, College of Agriculture, Food and Environment, University of Kentucky Lexington, KY, August 2002, Published 2003.

**Biographical sketch:**

**Thomas Tobin** (**TT)**, Veterinarian, MVB, University College Dublin, 1964, Pharmacologist, MSc, Univ. of Guelph,1966, PhD, Department of Pharmacology, Medical Center, University of Toronto, 1970, Instructor, Assistant and Associate Professor, Michigan State University, 1970-1974, contributed about forty research papers on Sodium Potassium ATPase. From 1975-date, Equine Pharmacology, Therapeutics and Toxicology (EPTT) program at the University of Kentucky. In 1978 TT was one of the Founding Fellows of the American Academy of Veterinary Pharmacology and Therapeutics, becoming an Emeritus Fellow in 2021. In 1979 organized the Third Int. Symp. On Equine Medication Control, now the International Conference of Racing Analysts and Veterinarians, ICRAV, in 1980 became a Diplomate, America Board of Toxicology, DABT. http://www.ca.uky.edu/gluck/index.htm. In 1981 authored/published *Drugs and the Performance Horse*, a 480 page text. In 1983 testified before the Criminal Justice Subcommittee of Congress on the “Corrupt Horse Racing Practices Act”; activity on this bill thereafter ceased.

In 1985 **TT** initiated the research that introduced ELISA drug testing to horse racing. Commercialization of this technology led to the creation of the first UK spin-off company, WTT ELISA TESTS, later sold to Neogen Corp ([www.neogen.com](http://www.neogen.com)). Neogen Lexington now employs 250 plus, brings in $150M plus/year to Lexington and the ELISA IP yielded a significant UK Intellectual property royalty, <https://uknow.uky.edu/campus-news/neogen-expansion-continues-benefit-uk-kentucky>. More recently, a number of these ELISA tests have been adapted for human hair testing, [www.omegalabs.net/](http://www.omegalabs.net/).

In 1988 **TT** became Director of the UK Graduate Center for Toxicology, brought in an $800K NIEHS Training Grant in place until recently and developed minority programs. By 1993 core faculty and student admissions were up three-fold, extramural funding had increased from 0 to $800K per year and new courses on “*Ethics in scientific research*” and “*Risk assessment*” had been developed. When the National Research Council reviewed Kentucky doctoral programs in 1993, only the Graduate Center for Toxicology was rated *“extremely effective”.*

In 1994, **TT** organized and published an international workshop, “Testing for Therapeutic Medications, Environmental and Dietary Substances in Racing Horses” that brought seventy international industry leaders to Lexington. In 1995, TT and colleagues organized “The Commission Veterinarian/Equine Medical Director: A Short Course”. In 1995, TT and colleagues founded the Testing Integrity Program (TIP), a national drug testing Quality Assurance Program (www.testingintegrityprogram.org/). In 1995 TT was named “Man of the Year” by the National Horsemen's Benevolent and Protective Association.

In 1996, TT and David Granstrom investigated new therapeutic approaches to Equine Protozoal Myeloencephalitis (EPM), rapidly establishing the therapeutic efficacy of Diclazuril and Toltrazuril. A use patent in this area was granted (US patent #5,883,095, 1999) and licensed to Bayer Animal Health; in July 2001, Bayer Marquis® (Bayer DVM.com – Marquis® ) became the first FDA-approved treatment for EPM. More recently, Diclazuril as Protazil® has been brought to market under this same patent by Merck Animal Health, total sales to date estimated at >US$250 million, earning a significant UK patent royalty.

In 1998 the industry focused on Clenbuterol. A series of LC-MS-MS based studies led to the publication of a highly sensitive plasma/serum test for Clenbuterol, allowing much more sensitive and reliable regulatory control of therapeutic medications than previously. In 1998 TT also organized and published a Testing Integrity Program [TIP] seminar on Furosemide.

In 2000, at the direction of the Kentucky Racing Commission (KRC), TT developed a series of nationally accredited continuing education short courses for practitioners and regulatory veterinarians in Kentucky and surrounding states. Six such short courses were offered.

In May 2001, TT chaired the Toxicology Working Group investigating the 2001 Mare Reproductive Loss Syndrome (MRLS) and his research group was temporarily redirected to work on MRLS. Within three weeks the Eastern Tent Caterpillar was identified as a/the central factor in MRLS. Work in 2002 clearly linked MRLS to the Eastern Tent Caterpillar; in July 2002 TT proposed that the pathogenesis of MRLS followed a biologically unique probabilistic septic penetrating setal emboli model. In August 2002, TT and David Powell organized the first workshop on the Mare Reproductive Loss Syndrome, published in May 2003. In 2003, TT showed that MRLS followed a unique probabilistic mathematical model, “Accelerated Failure Time Analysis”, and the biologically unique proposed pathogenesis for MRLS based on septic penetrating and embolic setal fragments ([www.jarvm.com/articles/](http://www.jarvm.com/articles/) Vol2Iss2/ TOBINJARVMVol2No2.pdf) was formally communicated and the copyright registered by TT (US Copyright# TXU1111484).

In 2003 the program contributed to the writing of the first National HBPA Proposed Policy on Drug Testing and Therapeutic Medication (http://hbpa.org/resources/MedicationPolicy.pdf) and focused on developing fully validated quantitative analytical methods for therapeutic medications appropriate for use in racing horses. In 2003 it was decided that it would be in the best interests of the racing industry in Kentucky for the program to accredit, and the process of becoming A2LA accredited was initiated. In 2004, following election of a Republican governor, the program redirected to address therapeutics and toxicology, with an emphasis on diagnostics, prophylaxis and therapeutics for equines.

In 2005 the program began synthesizing a series of certified reference standards and stable isotope internal standards for the regulatory analytes of equine therapeutic medications. These standards were based on earlier research quality standards used in thresholds research pioneered by the program, and these certified reference standards have been made available worldwide through UK licensing agreements. In July 2006 US Patent # 7,074,843 for a novel veterinary sedative and tranquilizer was awarded and a unique pathogenesis for oligofructan associated equine laminitis was proposed.

More recently work on certified reference standards and stable isotope internal standards for use in quantitative forensic work in equine medication control and related areas continues. The program generated research support from the Kentucky Science and Engineering Foundation [KSEF] the Racing Medication and Testing Consortium [RMTC] and National and local Horsemen’s Benevolent and Protective Association organizations [HBPAs] the Kentucky Equine Drug Research Council and other equine groups in support of the creation and commercial availability of appropriate Certified Reference Standards for use in racing chemistry. The research/intellectual property goal is to create and provide certified reference standards and stable isotope internal standards for the fifty or so therapeutic medications used in horses in training, and whose use is regulated by quantitative forensic chemistry. This work is being carried out in association with Frontier BioPharm Inc. of Richmond Kentucky [www.FrontierBiopharm.com] and the Lexington division of Neogen Corporation Inc. [www.neogen.com].

Medications for which certified reference standards and stable isotope, usually deuterated, internal standards have been developed and have been or are being brought to market include phenylbutazone, flunixin, ketoprofen, methocarbamol, guafenesin, clenbuterol, procaine and furosemide. Additionally, a number of certified reference standards for drug metabolite fragments/regulatory analytes include unlabeled and deuterated 3-hydroxylidocaine, 3-hydroxymepivacaine, hydroxyethyl promazine sulfoxide, carboxyDetomidine and Hydroxydetomidine, with approximately five corticosteroid therapeutic medications scheduled for stable isotope reference standard development.

In 2008 the third edition of the National Horsemen's Benevolent and Protective Association Policy on Drug Testing and Therapeutic Medication Regulation was assembled by the program in cooperation with Mr. Kent Stirling, Chairman of the National HBPA Medication Committee and Executive Director of the Florida Horsemen's Benevolent and Protective Association.  In 2009 Mr. Kent Stirling and TT were jointly awarded the 2008 National Horsemen's Benevolent and Protective Association Industry Service Award. In March 2011 the first of a sequence of metabolites/regulatory analytes/deuterated standards certified reference standards were licensed to Frontier BioPharm. In February 2012 the fourth edition of the HBPA medication book, now entitled “World Rules for Equine Drug Testing and Therapeutic Medication Regulation” was published and the first certified reference standard for myo-Inositol TrisPyroPhosphate [ITPP] was released through the Frontier BioPharm LLC licensing agreement.

In 2012 a University of Kentucky Intellectual Property involving novel therapeutic approaches to parasitic disease was licensed for patenting and commercialization to VC Equine Research, Inc. A provisional patent was filed by VC Equine. In 2104 the utility patent made possible by this Intellectual Property disclosure was filed on August 4th, 2014: US Utility Patent E-filing, Filing, Oz, H and **Tobin T** “Novel Compositions & Methods for Preventing & Treating Apicomplexan Related Disease” utility patent application E-filed August 4th, 2014, EFS ID: 19771622, Application Number: 14451337 International Application Number: n/a Confirmation Number: 496.

In 2016, and thereafter TT and Mr. Hans Albrecht convened the first TEX CAUTHEN MEMORIAL SEMINAR. To date seven such annual seminars have been organized. Guests of honor are Doug, Kerry & Steve Cauthen, in 2020 the invited speakers include Professor Kevin Keegan, Dr. Bronte Forbes, Mr. Sandy Hawley, Dr. Rob Holland, Mr. Hans Albrecht, Mr. Michael Savoldi, Dr. Pedro De Pedro and Dr. **Thomas Tobin**. The seminars are held in the Auditorium of The Maxwell H. Gluck Equine Research Center, University of Kentucky, Lexington, KY 40546-0099. The entire seminars have been videotaped and made available on The Maxwell H. Gluck Equine Research Center web site and republished by the American Farriers Association Communications Committee on their internet newsletter / eblast.

**THOMAS TOBIN**

**MVB, MSc, PhD, MRCVS, DABT, 1980-2015, AMAORC.** Toxicologist/Pharmacologist/Veterinarian

**ORCID iD 0000-0001-8506-3147, *h-*index 41, i10 index 164**

**ResearchGate Score, 2024 41.83 Citations, 6,594**

<http://vetsci.ca.uky.edu/> <http://getgluck.ca.uky.edu/> <http://gluck.ca.uky.edu/> <https://toxicology.med.uky.edu/> [**www.thomastobin.com**](http://www.thomastobin.com)

**Born** Dublin, Ireland, Naturalized United States Citizen.

**Business Address** The Maxwell H. Gluck Equine Research Center, Room 128C, University of Kentucky, 1400 Nicholasville Rd, Lexington, KY 40546-0099,   
E-Mail: ttobin@uky.edu; Phone: (859) 218 1092; Fax: (859) 257-8542

**Home Address** Nine Mile Farm, 5301 Bethel Rd, Lexington, KY 40511

E-Mail- [thomastobin@me.com](mailto:thomastobin1@gmail.com) Personal Cell 1-859-229-9392

**Marital Status** Married, Vicki Wooley-Tobin, Daughter, Mary Courtney Tobin, Esq.

**Education, licenses, boards**

MVB (DVM) National University of Ireland, University College, Dublin, 1958-1964, Bachelor of Veterinary Medicine, MVB

MRCVS Member of the Royal College of Veterinary Surgeons, 1964-date

MSc University of Guelph, Canada, Pharmacology, 1964-1966

PhD University of Toronto, Canada, College of Medicine, Pharmacology, 66-70

DABT Diplomate, American Board of Toxicology, 1980-2015

LICENSES Licensed Veterinarian, United Kingdom, Ireland, 1964-date, Canada 1964-1978, Kentucky, NS-1053/146473, 1978-date

**Fellowships, Distinctions, Awards**

Ontario Government Faculty Training Grant 1967-70,

Massey College Junior Fellow, Massey College, University of Toronto, Ontario 1967-70, [http://www.masseycollege.ca/]

Invited lecturer, Bain Fallon Lectures, New Zealand 1989.

Graduate Center for Toxicology Student Award, 1993.

Toxicology rated the only *“extremely effective” graduate program in Kentucky by National Research Council,* 1992-93.

National Horsemen’s Benevolent and Protective Association [NBPA] Man of the Year, 1995,

The **“Dr.** **Thomas Tobin Purse**,” August 1, Emerald Downs, Seattle, Washington, 1999.

Kentucky Horsemen’s Benevolent and Protective Association [HBPA] Man of the Year, 1999;   
Dubai Millennium Medal, 2001.   
Honorary faculty, College of Veterinary Medicine, Cordoba, Argentina, “**Thomas Tobin** **Purse**”, Cordoba, Argentina, August 2001.

The **Professor Thomas Tobin Trophy**, Cayamanas Racetrack, Jamaica, April 20th, 2002.

Invited lecturer, Bain-Fallon Lectures, Gold Coast, Australia, July 2002, **Thomas Tobin** **Purse,** Sao Paulo, Brazil, 2007, Race won by Baroness Margarida Polak Lara, Primeira Dama do Turfe Brasileiro, and prize presented to her.

Kentucky Horsemen’s Benevolent and Protective Association [KBPA] Industrial Service Award, 2009,

Invited Lecturer Buenos Aires, Argentina, and Montevideo, Uruguay, July 2012,

Invited lecturer Union Nacional de Asociaciones Ganaderas Colombianas- UNAGA, Bogota, Colombia, 2015.

Sixth WADA and Anti-Doping Laboratory Qatar, June 1st, 2016, Invited lecture and invited to chair the conference closing session.

Guest of His Highness Sheik Mohammed bin Rashid al Maktoum, Vice President and Prime Minister of the United Arab Emirates and Emir of Dubai at the 2014, 2015, 2016 and 2017 Dubai World Cups and also made invited presentations at the Buhoot Equine Research Center, Marmoom, Dubai UAE, in association these visits.

Invited lecturer Union Nacional de Asociaciones Ganaderas Colombianas- UNAGA, Bogota, Colombia, 2017.

Thomas Tobin, October 8th, 2020: [https://youtu.be/Vc5-fcg1uPQ](https://nam04.safelinks.protection.outlook.com/?url=https%3A%2F%2Fyoutu.be%2FVc5-fcg1uPQ&data=02%7C01%7CThomas.Tobin%40uky.edu%7Cf6b1dbaca42e4dec9d5208d86c6e454d%7C2b30530b69b64457b818481cb53d42ae%7C0%7C0%7C637378568146805143&sdata=zfa%2BNUUnXBfT1TGYtTUT3ZoXRdW4DrOEAye4x8sQ%2FIA%3D&reserved=0) Video presentation, “An educational presentation about Zilpaterol to the Equine Community” sponsored by Glanbia, Ireland, Purcellsinch Business Park, IDA Ireland, Dublin Rd, Purcellsinch, Kilkenny, R95 E70V, presented by Gain Equine Nutrition to the English Equine Community and, with French subtitles, to the French Equine Community. [https://youtu.be/Vc5-fcg1uPQ](https://nam04.safelinks.protection.outlook.com/?url=https%3A%2F%2Fyoutu.be%2FVc5-fcg1uPQ&data=02%7C01%7CThomas.Tobin%40uky.edu%7Cf6b1dbaca42e4dec9d5208d86c6e454d%7C2b30530b69b64457b818481cb53d42ae%7C0%7C0%7C637378568146805143&sdata=zfa%2BNUUnXBfT1TGYtTUT3ZoXRdW4DrOEAye4x8sQ%2FIA%3D&reserved=0). for the French speaking equine feedstuff market.

Founding Fellow, 1978 and Emeritus Fellow, American Academy of Veterinary Pharmacology and Therapeutics, 11/11/ 2021

**Professional And Teaching Experience**

1978 - Date Professor, Department of Veterinary Science, Professor, Graduate Center for Toxicology, now Department of Toxicology and Cancer Biology, University of Kentucky.

2013 - 2018 Scientific advisor, Buhoot Equine Research Center, Marmoom, Dubai, United Arab Emirates.

1988 - 1993 Director, Graduate Center for Toxicology, University of Kentucky

1975 - 1978 Associate Professor, Dept. of Vet Sci and Graduate Center for Toxicology, Univ. of KY.

1970 - 1974 Instructor, Assistant and Associate Professor, Dept. of Pharmacology, Michigan State University, East Lansing, Michigan.

1966 - 1970 PhD Candidate, Dept. of Pharmacology, Medical Center, University of Toronto, Toronto, Ontario, Canada.

1964 - 1966 MSc, Candidate, Dept. of Pharmacology, College of Veterinary Medicine, University of Guelph, Guelph, Ontario, Canada.

1958 - 1964 Veterinary student, National University of Ireland, University College Dublin

1948 –1958 Apprentice carpenter, coal merchant and Guinness distributor, James Ryan and Sons, 16 The Quay, New Ross, Co. Wexford, Ireland.

**Intellectual Properties, Patents, Licenses, Copyrights, Royalty Arrangements**

**1) 1984**: US Patent # 4,473,640: “Detection of Morphine and its analogues using enzymatic hydrolysis”. **Abstract:** The invention relates to a method for hydrolyzing drug-glucuronic acid conjugates present in mammalian body fluids, the conjugates being derived from a narcotic analgesic, antagonist, or agonist-antagonist whose metabolism includes conjugation with glucuronic acid. The method comprises incubating the body fluid sample at from about 60.degrees to about 70.degrees C, for at least about 1 hour, with .beta.-glucuronidase derived from Patella vulgata, and substantially increases the sensitivity of chromatographic techniques for the detection of morphine and its analogues. **Type:** Grant **Filed:** June3, 1982, **Date of Patent:** September 25, 1984, **Inventors:** Joan D. Combie, Jerry W. Blake, Thomas E. Nugent, and **Thomas Tobin**.

**2)** **International Diagnostic Systems, 1987-1989**; University of Kentucky licensing and royalty arrangements for fentanyl, carfentanil, furosemide, acepromazine, cocaine, detomidine, phenylbutazone, alfentanil, sufentanil and 20-plus other tests, in ELISA and PCFIA formats.

<https://www.washingtonpost.com/archive/sports/1988/04/07/new-test-could-confirm-widespread-drug-use-in-horse-racing/9fe5e16e-f420-4d57-965e-ae5390aeb99a/>

**3)** **1989:** **WTT ELISA Tests.** Founder with David Watt and Dan Tai of first UK “Spin Off” company to develop, manufacture, distribute and market ELISA tests for use in racing horses and greyhounds. Sold to Neogen Corp, 1992, significant UK royalty.

<https://uknow.uky.edu/campus-news/neogen-expansion-continues-benefit-uk-kentucky>

Tests developed and brought to market while I was an advisor working with WTT Elisa Tests and Neogen include:

1 Generic Barbiturate

2 Generic Benzodiazepine

3 Generic Bronchodilator

4 Generic Corticosteroid

5 Generic Fentanyl

6 Generic Opiate 1

7 Generic Promazine

8 Generic Tricyclics

9 Azaperone

10 Boldenone

11 Butorphanol

12 Clenbuterol

13 Cocaine Benzoylecgonine

14 Detomidine/Medetomidine

15 Dexamethasone

16 Droperidol

17 Ethacrynic Acid

18 Etorphine

19 Flunixin

20 Glycopyrollate

21 Haloperidol Metabolites

22 Isoxsuprine

23 Levallorphan

24 Lofentanil

25 Mazindol Metabolites

26 Cotinine

27 Meperidine

28 Mepivacaine

29 Nalbuphine

30 Oxymorphone/Oxycodone

31 PCP

32 Pentazocine

33 Procaine

34 Stanozolol

35 Sulfamethazine

36 Tetracaine

37 Alfentanil

38 Bumetanide

39 Buprenorphine

40 Carfentanil

41 Fentanyl

42 Fluphenazine

43 Furosemide (Lasix)

44 Haloperidol (Blood only)

45 Mazindol (Sanorex)

46 Methylprednisolone

47 Nandrolone

48 Phenylbutazone (Blood only)

49 Reserpine

50 Sufentanil

51 THC Metabolites

52 Trans-3-hydroxycotinine

53 Anileridine

54 Azaperone

55 3, 4-aminobenzoylecgonine

(Cocaine metabolites)

56 Caffeine

57 Clenbuterol

58 Cromolyn (adapted)

59 Diprenorphine

60 Droperidol

61 Glycopyrollate (adapted)

62 Imipramine

63 Isoxsuprine

64 Ketorolac

65 Lidocaine

66 Lofentanil

67 Mazindol

68 Medetomidine

69 Meperidine

70 Mepivacaine

71 Methocarbamol

72 Phencyclidine

73 Prazepam

74 Sulfamethazine

75 Temazepam

76 Triamcinolone Acetonide

And others

.

**4) 1981, 1995**: **Publishing royalties**: “Drugs and the Performance Horse, 1981” and “Equine Drugs and Vaccines: A Guide for Owners and Trainers, 1995.”

**5) 1999: US Patent #5,883,095:** “Formulations and methods to treat and prevent Equine Protozoal Myeloencephalitis” **Abstract:** The present invention provides formulations useful to treat EPM. It also provides methods to treat EPM in a horse in need of such treatment, comprising administering a pharmaceutically effective amount of a triazine-based anti-coccidial. Preferred are methods to treat EPM using clazuril, diclazuril, toltrazuril or letrazuril. The present invention also provides methods to prevent S. neurona infection in horses comprising administering a prophylactic amount of a triazine-based anticoccidial. Preferred is a method to prevent S. neurona infection by using clazuril, diclazuril, toltrazuril or letrazuril, alone or in combination with other known therapeutics.  
**Type:** Grant   
**Filed:** August 7, 1997,   
**Date of Patent:** March 16, 1999,   
**Assignee:** University of Kentucky Research Foundation   
**Inventors:** David Granstrom, **Thomas Tobin**

**6/ Investigational New Animal Drug Applications:** Formulations and methods to treat and prevent Equine Protozoal Myeloencephalitis. Investigational New Animal Drugs: two fast track/no environmental risk INADs for two agents for use in EPM. US Patent #5,883,095 granted in this area; licensed to Bayer Animal Health, 1999, marketed as Marquis®, August 2001, first FDA approved treatment for EPM, more recently (Fall 2011) marketed as Protazil® by Merck Animal Health. Total sales estimated US150 million, significant UK and Kentucky New Ace Corp patent royalty.

**7)** **2003:** **Copyright:** Unusual probabilistic mathematical analysis and biologically unique pathogenesis of MRLS copyrighted, US Copyright (US Copyright# TXU1111484).

**8/ ) 2004:** **US Patent Application number:** 20040053938” “[Novel method and device for treatment of exercise induced pulmonary hemorrhage in horses](http://patents.justia.com/patent/20040053938)” **Abstract:** A device and method are provided for convenient, patient compliant inhalation therapy of equine species. The device can be used to deliver any drug or other pharmaceutical agent which can be adapted for inhalation directly into the nasal passages of a horse and thereby provide inhalation therapy with minimal discomfort. The device can be used to treat any of a number of conditions including EIPH, infections and allergies, e.g., asthma or heaves. In one embodiment, the invention provides a method for the treatment or prevention of EIPH, utilizing a composition adapted for inhalant therapy comprised of sildenafil citrate alone or in combination other agents.   
**Type:** Application   
**Filed:** July 16, 2003   
**Publication date:** March 18, 2004   
**Inventors:** Calvert R. Bratton, **Thomas Tobin**   
  
**9/ 2005: US Patent Application number:** 20050043288 “[Composition and method for marking procaine penicillin](http://patents.justia.com/patent/20050043288)” **Abstract:** A chemically marked procaine penicillin is provided as an antibiotic which can be distinguished from procaine used for anesthetic purposes. A preferred embodiment provides a procaine penicillin molecule wherein the procaine portion of the molecule comprises one or more substituted deuterium atoms in place of hydrogen atoms typically found in procaine penicillin. The resulting non-radioactive isotope can be easily identified via mass spectrometry as being distinct from any naturally occurring isotope, without negatively impacting the pharmacological nature of the drug itself. An alternative embodiment of the invention provides a method of marking the procaine penicillin through the substitution of various other isotopes in place of their naturally occurring counterparts. Methods of detection of the marked procaine penicillin molecule are also provided.   
**Type:** Application   
**Filed:** August 23, 2004  
**Publication date:** February 24, 2005  
**Inventor: Thomas Tobin**   
  
**10) 5) 2006:** US Patent # 7,074,834 for an equine tranquilizer (2006); “Long acting, reversible veterinary sedative and analgesic and method of use.” **Abstract:** A veterinary composition comprising a guanidine derivative, e.g., guanabenz or guanabenz acetate is provided which produces a rapid acting and long lasting sedative and analgesic effect in a subject animal that is selectively reversible. The use of guanabenz in the horse provides for a safe, effective, long lasting and rapidly reversible sedative and analgesic which can be used on the standing animal. Methods of use of the compositions of the invention are also provided.  
**Type:** Grant   
**Filed:** May 24, 2001  
**Date of Patent:** July 11, 2006  
**Assignee:** University of Kentucky Foundation  
**Inventor: Thomas Tobin**

**11)** **1999:** **Equine Drug Metabolite Standards**, Reference Standards, Stable Isotope Internal Standards and Haptens: W. Karpiesiuk, F. Lehner, Eisenberg, R and **Tobin, T** have synthesized, purified and have licensed or are licensing the release of about 20 research quality equine metabolites standards and internal standards and haptens, modest UK royalty.

**12) 2011:** **Equine Drug Metabolite Standards:** 20 plus other Certified Reference Standards, Stable Isotope Internal Standards equine drug metabolite/regulatory analytes/deuterated standards certified reference standards, licensed to Frontier BioPharm, March 2011, modest UK royalty. See also http://www.thomastobin.com/standards.htm

|  |  |  |
| --- | --- | --- |
|  | **Parent Medication** | **Regulatory Analyte/ Internal Standard** |
| 1 | Acepromazine  (metabolite) | 1-Hydroxyethyl) promazine |
| 2 | Acepromazine  (deuterated metabolite) | D4 2-(1-hydroxyethyl) promazine  sulfoxide |
| 3 | Acepromazine  (metabolite) | Acepromazine sulfoxide |
| 4 | Amitraz  (deuterated metabolite) | D6 N-2,4-Dimethylphenyl-N’-methylformamidine |
| 5 | Bupivacaine (metabolite) | 3-Hydroxybupivacaine |
| 6 | Barbarin | Certified reference standard |
| 7 | Barbarin | Deuterated internal standard |
| 8 | Chlorpromazine  (metabolite) | 7-Hydroxychlorpromazine |
| 9 | Clenbuterol  (deuterated standard) | D9 Clenbuterol |
| 10 | Clenbuterol ( metabolite ) | 1-(4-Amino-3,5-Dichlorophenyl)ethane-1, 2-diol |
| 11 | Clenbuterol (metabolite) | 2-(2-)4-Amino-3,5-Dicholorophenyl)-2-hydroxyethylamino)-2-Methyl-Propan-1-Ol |
| 12 | Colterol and Bitolterol  (metabolite) | 3-O-Methylcolterol |
| 13 | Carboxydetomidine | D4 Carboxydetomidine |
| 14 | Hydroxydetomidine | D4 Hydroxydetomidine |
| 15 | Fluphenazine  (metabolite) | 7-Hydroxyfluphenazine |
| 16 | Furosemide  (deuterated standard) | D5 Furosemide |
| 17 | Flunixin  (deuterated standard) | D3 Flunixin |
| 18 | Guafenesin  (deuterated standard ) | D4 Guafenesin |
| 19 | Guanabenz (metabolite) | Hydroxyguanabenz |
| 18 | Ketoprofen  (deuterated standard ) | D4 Ketoprofen |
| 19 | Lidocaine  (deuterated metabolite) | D10 3-hydroxylidocaine |
| 20 | Lidocaine (metabolite) | 3-Hydroxylidocaine |
| 21 | Mazindol (metabolite) | 2-(2-Aminoethyl)-3-(4-chlorophenyl)-3-hydroxy-2,3-dihydro-isoindol-1-one |
| 22 | Mepivacaine  (deuterated metabolite) | D3 3-Hydroxymepivacaine |
| 23 | Mepivacaine (metabolite) | 3-Hydroxymepivacaine |
| 24 | Methocarbamol  (deuterated metabolite) | D4 Methocarbamol |
| 25 | Phenylbutazone  (deuterated metabolite) | D9 Phenylbutazone |
| 26 | Procaine  (deuterated metabolite) | D10 Procaine |
| 27 | Promazine (metabolite) | 3-Hydroxypromazine |
| 28 | Promethazine  (metabolite) | Promethazine sulfoxide |
| 29 | Propanolol (metabolite) | 4-Hydroxypropanolol |
| 30 | Propiomazine  (metabolite) | 2-(1-Hydroxypropyl) promethazine sulfoxide |
| 31 | Propionylpromazine  (metabolite) | 2-(1-Hydroxypropyl) promazine sulfoxide |
| 32 | Pyrilamine  (deuterated standard) | D4 Pyrilamine |
| 33 | Pyrilamine (metabolite) | O-desmethylpyrilamine |
| 34 | Ropivacaine (metabolite) | 3-Hydroxyropivacaine |
| 35 | Ropivacaine (metabolite) | 4-Hydroxyropivacaine |
| 36 | Selegiline (metabolite) | Desmethylselegiline |
| 37 | Tramadol (metabolite) | Desmethyltramadol |
| 38 | Tripelennamine  (metabolite) | 3-OH-tripelennamine |
| 39 | Nandrolone | D3 Nandrolone |
| 40 | Ketoprofen | D3 Ketoprofen |
| 41 | Ropivacaine | Ropivacaine-d7 |
| 42 | Ropivacaine | 3-OH-Ropivacaine-d7 |
| 43 | Ropivacaine | 3-OH-Ropivacaine-HCl |
| 44 | Bupivacaine | Bupivacaine-d9 |
| 45 | Bupivacaine | 3-OH-Bupivacaine-HCl |
| 46 | Bupivacaine | 3-OH-Bupivacaine-d9 |

**13) 2012 -2014:** University of Kentucky Intellectual Property involving novel therapeutic approaches to parasitic disease licensed for patenting and commercialization to VC Equine Research, Inc., September 24th, 2012. A provisional patent was filed by VC equine and a utility patent made possible by this Intellectual Property disclosure was filed on August 4th, 2014, as follows; US Utility Patent E-filing, Filing, Oz, H and **Tobin T** “Novel Compositions & Methods for Preventing & Treating Apicomplexan Related Disease” utility patent application E-filed August 4th, 2014, EFS ID: 19771622, Application Number: 14451337 International Application Number: n/a Confirmation Number: 496.

**14 VALIDATED ANALYTICAL METHODS:**

**14.1/** “Confirmation and Quantitation of Furosemide in Equine Serum:” TIP Verified SOP, September 11th, 2003, Developed for the Testing Integrity Program by the Equine Pharmacology Laboratory, Gluck Equine Research Center, University of Kentucky.

**ADVISORY BOARDS/ACTIVITIES**

The Irish Equine Center, Johnstown, County Kildare, Ireland

Thoroughbred Owners of California

Equine Testing Program, University of Auckland, New Zealand

Neogen Corp., Lansing, Michigan

The Alabama; Arizona; Arkansas; Canada; Charles Town, WV; Florida; Iowa; Indiana, Kentucky; Louisiana; Michigan; Minnesota; National, Nebraska, Ohio, Oklahoma, Ontario Canada, Oregon, Pennsylvania, Tampa Bay Downs, FL; Texas; Washington State; West Virginia and Canadian Divisions of The Horsemen’s Benevolent and Protective Association.

The Keeneland Association, Lexington, Kentucky

The Fasig-Tipton Company, Lexington, Kentucky

FrontierBioPharm, Richmond, Kentucky

New Ace Corp, Lexington KY

Equine Molecular Diagnostics, Lexington, KY.

BioQuine Inc.

Wyclifffe Pharmacy

Scientific advisor, Buhoot Equine Research Center, Marmoom, Dubai, United Arab Emirates.

**Selected University Committee Assignments**

Patents Committee, University of Kentucky, 1985-1988

Director of GCT, *ex officio* member of five plus GCT standing committees, 1988-1993

Safety Committee Chair, Gluck Equine Research Center, 1996

Self-Study Committee Chair, Department of Veterinary Science, 1999

Building Committee, Gluck Equine Research Center, 2001

Toxicology Working Group on Mare Reproductive Loss Syndrome, 2001

Graduate Committee, Dept. of Veterinary Science 2009

Faculty Evaluation Committee, Dept. of Veterinary Science 2009

Diversity Advisory Council, College of Agriculture Food, and the Environment, Departmental representative, 2021 to 2024 and to date.

Communications Committee, Department of Veterinary Science, 2024 to date.

**Selected Committees, National and International**

Chairman, Executive, Social and Organizing Committees, Third International Symposium on Equine Medication Control, Lexington, KY, 1979. Raised $50,000 to support program and organized scientific and social programs for Third International Symposium on Equine Medication Control, June 12, 13, 14, 1979, Lexington, KY. Approximately 120 registrants, 15 countries represented, 50 papers presented; proceedings edited and published 1980.

Chairman, Executive, Social and Organizing Committees, Seventh International Conference of Racing Analysts and Veterinarians, Louisville, KY, 1988. Raised approximately $85,000 to support program and organized scientific and social programs for Seventh International Conference of Racing Analysts and Veterinarians, April 10-14, 1988, Louisville, KY. Approximately 285 registrants, 23 countries represented, 70 papers presented, proceedings edited and published, 1990.

Chairman, Executive, Social and Organizing Committees, Workshop on “Testing for Therapeutic Medications, Environmental and Dietary Substances in Racing Horses,” August 18-19, 1994, Lexington, KY. In six weeks raised $33,000, brought in 70 scientists, veterinarians and industry leaders from around the world to review the problem of limiting the sensitivity of testing for the above substances. The workshop involved 35 presentations, a final report presented, and workshop proceedings edited and published, April 1995.

Chairman, Executive Committee of the International Short Course entitled "The Commission Veterinarian/Equine Medical Director: A Short Course". In association with Drs. George Mundy, Scott Stanley, and Rick Sams organized a 3 day short course for commission veterinarians, November 1995. 85 registrants attended from 20 countries. Two days of lectures, one day field trip to Ohio State and Turfway Park. Raised approximately $45K, short course, proceedings to be published, precipitated suit against Illinois Hooved Animals Humane Society.

Chairman, Executive Committee of the International Short Course entitled "The Commission Veterinarian/Equine Medical Director: A Short Course". In association with Drs. Mitzi Fisher, Scott Stanley, and Rick Sams organized a 2 day short course for Commission Veterinarians, at Churchill Downs, April 30th and May 1st & 2nd, 2001. 65 registrants attended from 15 countries. Raised approximately $30K. Publication of proceedings interfered with by arrival on May 5th, 2011, of the Mare Reproductive Loss Syndrome, MRLS.

Organizing and Fundraising Committee, 19th International Conference of Racing Analysts and Veterinarians, 2012 Conference held at the Sheraton Society Hill Hotel, Philadelphia, Pennsylvania, September 15-22, 2012. Approximately $200K raised for this Conference, Chaired the session on new drug detection, proceedings edited and published, 2013.

Organizing and Fundraising Committee, January 22, 2017: 1:00 p.m. - 5:00 p.m. the TEX CAUTHEN MEMORIAL SEMINAR with Dr. David Horohov, Doug, Kerry & Steve Cauthen, Mr. Hans Albrecht, Dr. Ric Redden, Dr. Raul Bras, Mr. Michael Savoldi Mr. Steve Simon, Dr. Pedro De Pedro and Dr. Thomas **Tobin, T**he Maxwell H. Gluck Equine Research Center, University of Kentucky, Lexington, KY 40546-0099. The entire seminar was videotaped and made available on The Maxwell H. Gluck Equine Research Center web site and republished by the American Farriers Association Communications Committee on their internet newsletter / eblast. eblast. https://gluck.ca.uky.edu/2017-cauthen

Organizing and Fundraising Committee, January 21, 2018: 9:30 a.m. - 5:00 p.m. the SECOND TEX CAUTHEN MEMORIAL SEMINAR with Dr. David Horohov, Doug, Kerry & Steve Cauthen, Mr. Hans Albrecht, Mr. Steve Simon, Mr. Michael Savoldi, Dr. Pedro De Pedro and Dr. **Thomas Tobin**, The Maxwell H. Gluck Equine Research Center, University of Kentucky, Lexington, KY 40546-0099. The entire seminar was videotaped and made available on The Maxwell H. Gluck Equine Research Center web site and republished by the American Farriers Association Communications Committee on their internet newsletter / eblast. eblast. https://gluck.ca.uky.edu/2018-cauthen

Organizing and Fundraising Committee, January 20, 2019: 9:00 a.m. - 5:00 p.m. the THIRD TEX CAUTHEN MEMORIAL SEMINAR with Dr. David Horohov, Doug, Kerry & Steve Cauthen, Mr. Sandy Hawley, Dr. Rob Holland, Mr. Hans Albrecht, Mr. Steve Simon, Mr. Michael Savoldi, Dr. Pedro De Pedro and Dr. Thomas **Tobin, T**he Maxwell H. Gluck Equine Research Center, University of Kentucky, Lexington, KY 40546-0099. The entire seminar was videotaped and made available on The Maxwell H. Gluck Equine Research Center web site and republished by the American Farriers Association Communications Committee on their internet newsletter / eblast. eblast. <https://gluck.ca.uky.edu/2019-cauthen>   
  
Organizing and Fundraising Committee, January 19, 2020, 9:00 a.m. - 5:00 p.m. the FOURTH TEX CAUTHEN MEMORIAL SEMINAR with Doug, Kerry & Steve Cauthen, Professor Kevin Keegan, Dr. Bronte Forbes, Mr. Sandy Hawley, Dr. Rob Holland, Mr. Hans Albrecht, Mr. Michael Savoldi, Dr. Pedro De Pedro and Dr. Thomas **Tobin, T**he Maxwell H. Gluck Equine Research Center, University of Kentucky, Lexington, KY 40546-0099. The entire seminar has been videotaped and made available on The Maxwell H. Gluck Equine Research Center web site and republished by the American Farriers Association Communications Committee on their internet newsletter / eblast. eblast. <https://gluck.ca.uky.edu/2020-cauthen> 2020 The Fourth Tex Cauthen Seminar https://m.facebook.com/GluckEquineResearchCenter/posts/2658511917538083?locale2=ne\_NP

Organizing and Fundraising Committee, January 24th, 2021, 9:00 a.m. - 5:00 p.m. the FIFTH **TEX CAUTHEN SEMINAR with Doug, Kerry & Steve Cauthen, Professor Kevin Keegan, Dr. Bronte** Forbes, Mr. Sandy Hawley, Dr. Rob Holland, Mr. Hans Albrecht, Mr. Michael Savoldi, Dr. Pedro De Pedro and Dr. Thomas **Tobin, T**he Maxwell H. Gluck Equine Research Center, University of Kentucky, Lexington, KY 40546-0099. The entire seminar was videotaped and made available on The Maxwell H. Gluck Equine Research Center web site and republished by the American Farriers Association Communications Committee on their internet newsletter / eblast. <https://gluck.ca.uky.edu/2021-cauthen> YOUTUBE 2021 The Fifth Tex Cauthen Seminar <https://www.youtube.com/watch?v=yTRQGAGncKk>

Organizing and Fundraising Committee, Sunday, January 23rd, 2022 9:00 a.m. - 5:00 p.m. the SIXTH TEX CAUTHEN FARRIER VETERINARIAN Researcher SEMINAR with Doug, Kerry & Steve Cauthen, Professor Kevin Keegan, Dr. Rhodes Bell, Dr Clara Fenger, Dr. Emmanuelle van Erck Westergren, Dr. David Lambert, Dr. Bronte Forbes, Mr. Sandy Hawley, Dr. Rob Holland, Mr. Hans Albrecht, Mr. Michael Savoldi, Dr. Pedro De Pedro and Dr. Thomas **Tobin,** The Maxwell H. Gluck Equine Research Center, University of Kentucky, Lexington, KY 40546-0099. The entire seminar to be videotaped and made available on The Maxwell H. Gluck Equine Research Center web site and republished by the American Farriers Association Communications Committee on their internet newsletter / eblast. <https://gluck.ca.uky.edu/2022-cauthen>, YOUTUBE 2022 The Sixth Tex Cauthen Seminar <https://www.youtube.com/watch?v=_nTOQ9IKmfg>

Organizing and Fundraising Committee, Sunday, January 22rd, 2023 9:00 a.m. - 5:30 p.m. the SEVENTH TEX CAUTHEN HANS ALBRECHT FARRIER VETERINARIAN Researcher SEMINAR with Doug, Kerry & Steve Cauthen, Mrs. Vicki Albrecht, Dr Scott Stanley, Professor Kevin Keegan, Dr. Rhodes Bell, Dr. Clara Fenger, Dr. David Lambert, Mr. Sandy Hawley, Dr. Rob Holland, Mr. Michael Savoldi, Dr. Pedro De Pedro and Dr. Thomas **Tobin,** The Maxwell H. Gluck Equine Research Center, University of Kentucky, Lexington, KY 40546-0099. The entire seminar to be videotaped and made available on The Maxwell H. Gluck Equine Research Center web site and republished by the American Farriers Association Communications Committee on their internet newsletter / eblast. <https://gluck.ca.uky.edu/2022-cauthen>, YOUTUBE 2022 The Seventh Tex Cauthen Seminar <https://www.youtube.com/watch?v=_nTOQ9IKmfg>

Organizing and Fundraising Committee, Sunday, January 21st, 2024 9:00 a.m. - 5:30 p.m. the EIGHT TEX CAUTHEN HANS ALBRECHT FARRIER VETERINARIAN Researcher SEMINAR with Doug, Kerry & Steve Cauthen, Mrs. Vicki Albrecht, Dr Scott Stanley, Professor Kevin Keegan, Dr. Rhodes Bell, Dr. Clara Fenger, Dr. David Lambert, Mr. Sandy Hawley, Dr. Rob Holland, Mr. Michael Savoldi, Dr. Pedro De Pedro and Dr. Thomas **Tobin,** The Maxwell H. Gluck Equine Research Center, University of Kentucky, Lexington, KY 40546-0099. The entire seminar to be videotaped and made available on The Maxwell H. Gluck Equine Research Center web site and republished by the American Farriers Association Communications Committee on their internet newsletter / eblast. <https://gluck.ca.uky.edu/2022-cauthen>, YOUTUBE 2022 The Eight Tex Cauthen Seminar https://www.youtube.com/watch?v=\_nTOQ9IKmfg

**OTHER COMMITTEES**:

Racing Commissioners International Task Forces:

1991: Task Force on Drug Classification, 1991-present

1995: Testing Integrity Program, Founding Member, 1995.

1996: Veterinary Advisory Board to the Lexington Humane Society (1996)

1995: Research Facilitator, Testing Integrity Program 1995-date

2001: Veterinary Advisor, National HBPA Medication and Drug Testing Policy Working Group, to date.

2001: AAEP “Norwood” Committee on Therapeutic Medications, 2001.

2002: AAEP “Arthur” Advisory Committee to the NTRA Medication Task Force, 2002

2007 Racing Medication and Testing Consortium [RMTC], member, Dietary and Environmental Substances Sub-Committee, 2007-- date

2007: Racing Medication and Testing Consortium [RMTC], member, Veterinary Advisory Committee 2007- date

2009: Racing Medication and Testing Consortium [RMTC], member, committee for the creation of “National Thresholds for Trace level Environmental Substances” 2009 to date.

20010-2013: Racing Medication and Testing Consortium [RMTC] Scientific Advisory Committee,

2012: RMTC Baltimore Medication Scientific Advisory group, September 2012.

2013-2018: Advisor, Marmoom/Buhoot Equine Research Laboratory, Dubai, UAE

2015-date Association of racing Commissioners International [ARCI] Scientific Advisory Committee.

2016 Director, North American Association of Racetrack Veterinarians, NAARV.

2018 Member, Harness Racing Medication Collaborative, on invitation by Mr. Russell C. Williams, President, United States Trotting Association.

2018: Charles Town, West Virginia. Medication Committee, Mr. Joe Moore, Ms. Kelly Talbott, Esq., Commissioner Ken Lowe (previously a CT HBPA President), Ms. Jana Tetrault, Dr. Libby Daniel (State Vet who works at Charles Town and Laurel), Mr. Jim Miller, owner, breeder at Charles Town who runs horses across the country.

2022 Scientific Advisory Committee of the New York Drug Testing and Research Program Morrisville State College, Morrisville, New York.

# Academic Advising

**Major Professor / Thesis Advisor /Research Advisor to:**

1) Susapto Dirdjosudjono, MS, 1973

2) Brian L. Roberts, MS, 1977

3) Richard Miller, MS, 1978

4) Connie G. White, MS, 1978

5) Joan Combie, MS, 1979

6) Steve Ballard, MS, 1980

7) Theodore Shults, MS, 1980

8) Eugenie Green, MS, 1980

9) William A. Rees, PhD, 1997

10) Levent Dirikolu, PhD, 2006

11) Lisa Collett, MS Cnd, 1982

12) Joan D. Combie, PhD, 1982

13) David DeQuick, MS, 1984

14) Thomas Wood, PhD, 1989

15) Jyan-Ming Yang, PhD, 1992

16) Sylvia Chay, MS, 1977

17) Scott Stanley, PhD, 1992

18) Neil Hoglen, MS, 1990

19 Joanne Scheurer, MS Cnd, 1993

20) Eddie Mitchell, PhD, 1996

21) Bradford Bentz, MSc, 1999

22) Cedric Holtz, MS, 2000

23) Jeffrey Bosken, PhD, 2003

24) Manu Mohan Sebastian, BVSc, PhD, 2004

25) Fernanda Camargo/Olivier, DVM, PhD, 2007

26) Kimberly Brewer DVM, 2012

27) Jake Machin, BS, PHD Toxicology 2015-2021 Thesis defended, August 11th, 2021.

28/ Taylor Childers, BSc, MSc in Medical Science candidate, Thesis successfully defended July 31st, 2020.

29/ Miles P. Buchart, Lexington Catholic Exemplars MST Program science fair project, 2023.

**Post-Doctoral Fellows/Research Associates:**

Dr. John M. Weld, Studies on Endotoxin Shock, 1980-1981.

Dr. Steve Kamerling, Studies on Equine Pain Perception, 1982-1984.

Dr. Stefan Kwiatkowski, Synthesis of Derivatives of Tranquilizers, Stimulants, and Narcotic Analgesics, 1987-1988.

Dr. Ursula Wacjen, Synthesis of Derivatives of Tranquilizers, Stimulants, and Narcotic Analgesics, 1987-1988.

Dr. Ichiro Fuse, Synthesis of Derivatives of Non-steroidal Anti-inflammatory Drugs and Diuretic Drugs, 1987-1988.

Dr. Tomohiro Ichimaru, Synthesis of Derivatives of Non-steroidal Anti-inflammatory and Diuretic Drugs, 1987-1988.

Dr. Alwarsamy Jeganathan, Synthesis of Derivatives of Drugs of Abuse in Racing Horses, 1987-1988.

Dr. Daniel J. Harkins, Studies on the Pharmacological Effects of Therapeutic Agents, 1993-2004.

Dr. Nathan Hall, Studies on Musculoskeletal Injuries in Racing Horses, 1995.

Dr. Wojciech Karpiesiuk: Synthesis of Drug Metabolites, 1995-2009.

Dr. Fritz Lehner: Detection of High Potency Drugs, 1996-2004.

Mr Charlie Hughes, Detection of High Potency Drugs, and various books 1998-2018

Dr. Levent Dirikolu, Pharmacokinetics of Furosemide, 2002-2004.

Dr. Julio Gutierrez 2009-2011, Certified Reference Standard and Stable Isotope Internal Standard synthesis

Dr Raghotham R Pinninti 2011, Certified Reference Standard and Stable Isotope Internal Standard synthesis.

Dr. Thirupathi Yerramreddy 2011, Certified Reference Standard and Stable Isotope Internal Standard synthesis

Dr. Sucheta Kudrimoti, 2012-2022, Certified Reference Standard and Stable Isotope Internal Standard synthesis

Mr. Adedamolo S. Arojojoye: Certified Reference Standard and Stable Isotope Internal Standard synthesis, 2022

Mr. Justin Charles Holmes: Certified Reference Standard and Stable Isotope Internal Standard synthesis, 2024

**Visiting Scientists/Associates:**

Dr. David Snow, Glasgow University: Muscle biopsy work, 1978

Dr. Marie Agnes Popot, France; Etorphine, 1986

Dr. Mei-Ru Dai, China; Immunoassay for etorphine and buprenorphine, 1987

Dr. John Goodman, Energy Lab; Mass spectral confirmation of high potency drugs, 1988

Dr. Antonio Queiroz Neto, Jaboticabal, Brazil, Behavioral Responses in Horses, 1994-1995

Dr. In Mo Lee, Seoul, South Korea, Studies on Musculoskeletal Injuries in Racing Horses, 1996.

# Extra-Curricular

Guest Editor, Columnist, Contributor, Editorial Board: *EQUUS*, *Hub Rail*, The *Blood-Horse*, *Practical Horseman*, *Journal of Equine Medicine and Surgery*, *Equine Sport Medicine*, *Horsemen's Journal*, *Appaloosa World*, *Modern Horse Breeding*, *Thoroughbred Times*; about 10-plus articles/year published in lay press. University of Toronto Deep Sea Fishing Team, 1968-1973, Cave Run Sailing Association, 1988. The Thoroughbred Club of America, 1978, The Lexington Polo Club, 1992, The Lafayette Club, 1994, The Iroquois Hunt Club, 1996-2006, Master of Ceremonies, The Bluegrass Charity Ball, 2002-2008.

# National and International Activities

Commonwealth of Kentucky, licensed to practice veterinary medicine (1977-present, Kentucky, NS-1053/146473)

Royal College of Veterinary Surgeons, London, licensed to practice veterinary medicine overseas (1964-present)

Ontario Veterinary Association, licensed to practice veterinary medicine (1964-1978)

Canadian Veterinary Medical Association, licensed to practice veterinary medicine (1964‑1978)

Michigan Veterinary Medical Association (1970-1974)

American Veterinary Medical Association (1970-present)

Central Kentucky Veterinary Medical Association (1975-1980)

American Society for Pharmacology and Experimental Therapeutics

Founding Fellow and Councilor, American College of Veterinary Pharmacology, 1978, Emeritus Fellow, 2021.

American College of Veterinary Toxicology

British Equine Veterinary Association, Associate member

International Doping Research and Control Group

Associate Member Association of Official Racing Chemists (1977-To date)

International Group of Specialty Racing Veterinarians [IGSRV]

American Association of Equine Practitioners

Society of Toxicology, 1978-1988

Royal Dublin Society

Who's Who in the South and Southwest?

Phi Zeta Society

Member and Founding Fellow, Testing Integrity Program (T.I.P)

Editorial Board: *Modern Horse Breeding*, 1988; *Journal of Equine Medicine and Surgery*, 1978

The Romanian Review of Veterinary Medicine, International Journal of Applied Research in Veterinary Medicine

Guest Reviewer: *Science*, *Molecular Pharmacology*, *National Science Foundation*, *JAVMA*, *AJVR*, *J Eq Med & Surg*, *J Vet Pharm Ther*, *Eq Pract.,*

Visiting Scholar/Advisor, Mr. Aazam Syed Pharmacy in Charge, Zabeel Palace Office, Zabeel Area 1, Dubai, United Arab Emirates and Buhoot Equine Research Center, Marmoom, Dubai United Arab Emirates, 2014-2018.

Kentucky Veterinary Medical Association, 2020

Member, Society of Forensic Toxicology 2020

# Invited Presentations, Seminars, Selected Educational Submissions, Expert Opinions, and related activities:

1. Ligand Binding Studies on Na++K+-ATPase, Department of Biochemistry, Michigan State University, fall 1971.
2. The Cardiac Glycosides and the Na++K+-ATPase, Department of Chemistry, Michigan State University, spring 1972.
3. First Int’l Symposium on the Na++K+-ATPase, New York Academy of Sciences Symposium, November 1973.
4. Ontario Veterinary Association Conference on Anesthesia in Lab Animal Medicine, Toronto, January 1974.
5. Neurochemistry Session Chairman, FASEB, Spring Meeting, Atlantic City, New Jersey, April 1974.
6. Cardiac Glycosides, Erythrophleum Alkaloids and the Na++K+-ATPase, Physiology Institute, University of Aarhus, Denmark, September 1974.
7. Erythrophleum Alkaloids and the Na++K+-ATPase, the Biochemical Society, Galway, Ireland, September 1974.
8. Cardiac Glycoside Inhibition of Na++K+-ATPase: Its relation to their Ionotropic Actions, Department of Veterinary Science, University of Kentucky, October 1974.
9. Cardiac Glycosides, Erythrophleum Alkaloids and the Na++K+-ATPase, Medical College of Pennsylvania, Department of Pharmacology, December 1974.
10. Int’l Conference on Doping Research and Control, Paris, France, May 1975. (First ICRAV!)
11. Cardiac Glycosides and the Na++K+-ATPase, Department of Pharmacology, University of Kentucky, September 1975.
12. The Pharmacology of Procaine in the Horse and Its Forensic Significance, School of Veterinary Medicine, University of Tennessee, Knoxville, November 1975.
13. Photoaffinity Labeling of the Na++K+-ATPase, Biochemistry Department, University of Kentucky, February 1976.
14. Drugs, Racehorses and the Kentucky Equine Drug Research Program, National Association of State Racing Commissioners Meeting, San Diego, California, March 1976.
15. Interaction of Ouabain and Cassaine with Na++K+-ATPase and Its Relationship to their Inotropic Actions, presented at a symposium on Drug Action at the Molecular Level, London, England, April 1976.
16. The Pharmacology and Pharmacokinetics of Procaine in Thoroughbred Horses, presented at Second Int’l Conference on Research and Doping Control, Newmarket, England, May 1976.
17. The Pharmacology of Drugs Used in Racing, Seminar, American Association of Equine Practitioners Meeting, Dallas, Texas, November 1976.
18. Furosemide in the Horse, National Association of State Racing Commissioners, San Juan, Puerto Rico, March 1977.
19. A Review of the Pharmacology of Furosemide in the Horse, presented to Third Int’l Doping Conference, Rome, Italy, March 1977.
20. The Pharmacology of Procaine in the Thoroughbred Horse, British Equine Veterinary Association Meeting, Dublin, Ireland, October 1977.
21. The Pharmacology of Furosemide in the Horse, Cornell University, Ithaca, New York, November 1977.
22. An In Depth Seminar on Medication and Equine Practice, AAEP Meeting, Vancouver, British Columbia, December 1977.
23. The Pharmacology of Furosemide in the Horse, Department of Pharmacology, University of Washington, Seattle, December 1977.
24. Seminars on Procaine and Lasix® in Thoroughbred Horses (Postgraduate Veterinarians Course), Michigan State University, January 1978.
25. Session Chairman, Pharmacokinetics Section, 1st Conference of American College of Veterinary Pharmacologists, Baton Rouge, Louisiana, March 1978.
26. "Pre-race Testing", presentation to National Association of State Racing Commissioners, Miami, Florida, March 1978.
27. Seminar, "The Pharmacology of Furosemide in the Horse," Colorado State University, Fort Collins, April 1978.
28. Seminar, "The Pharmacology of Furosemide in the Horse," Purdue University, Lafayette, Indiana, April 1978.
29. Seminar, "Plasma and Urinary Concentrations of Drugs and Pharmacological Effects," Chicago Equine Veterinarians Group, May 1978.
30. The Pharmacology of Narcotic Analgesics in the Horse: Studies on the Detection, Pharmacokinetics, Urinary Clearance Times and Behavioral Effects of Pentazocine and Fentanyl in the Horse, Fourth Int’l Doping Conference, the Curragh, Ireland, 1978.
31. White CG, Woods WE, **Tobin T**: The Pharmacology of Reserpine in the Horse, I. Effects of Reserpine and Imipramine on Platelet Uptake of Serotonin, presentation and publication, Seventh Int’l Congress of Pharm, Paris, France, 1978.
32. The Pharmacology of Narcotic Analgesics in the Horse, Purdue University, Lafayette, Indiana, November 1978.
33. **Tobin T**, Maylin GA, Fregin F et al.: Drugs and Performance Testing in Racehorses, presentation to NASRC, San Francisco, California, March 1978.
34. **Tobin T**: Medication Testing in North America, presentation to European analysts, Cologne, Germany, March 1979.
35. Moderator, Pharmacological Studies on Doping Drugs in Horses, Third Int’l Symposium on Equine Medication Control, Lexington, KY, June 1979.
36. **Tobin T**: Lasix® in the Horse, Jockey Club Round Table Conference, Saratoga Springs, New York, August 1979.
37. Racehorse Medication, Pharmacologic, Forensic and Administrative Considerations, University of Louisville, KY, September 1979.
38. Overview of Antibiotic Therapy in the Horse, Kentucky Equine Practitioners, November 1979.
39. Guest Lecturer, College of Veterinary Medicine, University of Missouri, Columbia, Medication and Medication Control in Racing Horses, November 1979.
40. Equine Pharmacology Workshop, Columbia, Missouri, November 1979.
41. Overview of Basic Antibiotic Therapy in the Horse, 25th AAEP Meeting, Miami, Florida, December 1979.
42. Guest Lecturer, Clinical Veterinary Pharmacology, College of Veterinary Medicine, Colorado State University, Fort Collins, January 1980.
43. The Pharmacology of Furosemide in the Horse, Diagnostic Laboratory, Iowa State University, Ames, February 1980.
44. Drugs and the Performance Horse, Department Large Animal Medicine, University of Guelph, Guelph, Ontario, March 1980.
45. Recent Advances in Studies on the Drug-Receptor Complexes, with Special Reference to Na++K+-ATPase and the Opiate Receptor, Second Symposium on Veterinary Clinical Pharmacology and Therapeutics, University of Pennsylvania, June 1980.
46. Two invited papers on a special session on "Medication in Competing Horses," British Equine Veterinary Association:
47. (I) Survey of Positive Results from Racecourse Anti-doping Samples in the USA.
48. (II) Experiences in the Application of Pre-race Dope Testing.
49. Bayes' Theorem and its Significance in Equine Drug Testing, presented at AORC Conference NASRC Meeting, Lexington, KY, April 1980.
50. The Pharmacology of Furosemide in the Horse, presented at the 1980 AAEP Meeting, Anaheim, California.
51. The Pharmacology of the Corticosteroids in the Horse, presented at 1980 AAEP Meeting, Anaheim, California.
52. The Role of Simple Behavioral Models in Performance Studies. Seminar on Drugs in Horse Racing, Racecourse Security Services, Newmarket, England, February 1981.
53. Drugs and the Performance Horse, Lexington Rotary Club, March 1981.
54. Drugs and the Performance Horse, Student Colloquium, Louisiana State University, Baton Rouge, April 1981.
55. Pharmacology of Acepromazine in the Horse, Fourth Int’l Symposium on Equine Medication Control, Melbourne, Australia, May 1981.
56. Phenylbutazone Use under a Controlled Medication Program, Fourth Int’l Symposium on Equine Medication Control, Melbourne, Australia, May 1981.
57. An Overview of Antibiotics and Anti-Inflammatory Therapy in the Horse, Quebec Veterinarians Conference, Montreal, Canada, September 1981.
58. An Overview of Performance Horse Medication and Its Control, Mid-American Veterinarians Conference, Louisville, KY, October 1981.
59. Guest Lecturer, College of Veterinary Medicine, Gainesville, Florida, September/October 1981.
60. Drugs and the Performance Horse, Student Chapter of AAEP, Gainesville, Florida, October 1981.
61. "Directions," with Carolyn Kell, thirty-minute television program on Drugs and the Performance Horse, Kentucky Educational Television, October 1981.
62. Drugs and the Performance Horse, College of Veterinary Medicine, Virginia Tech, Blacksburg, February 1982.
63. Endotoxin Shock in Horses, American Society for Veterinary Pharmacology and Experimental Therapeutics, Ohio State University, Columbus, April 1982.
64. Pharmaceutical Manufacturer’s Association invited presentation on "Drugs, Medications, and Racing Horses," Louisville, KY, August 1982.
65. Symposium on Drugs in Horse Racing and paper on Effects of Drugs on Equine Performance, Fall meeting American Society for Pharmacology and Experimental Therapeutics, University of Louisville, KY, August 1982.
66. Guest Lecturer, College of Veterinary Medicine, University of Florida, Gainesville, September/October 1982.
67. QED BBC Television Interview on Anabolic Steroids and Racing Horses, Oxford, England, September 1982.
68. The Effects of Drugs on Equine Performance, First Int’l Conference on Equine Exercise Physiology, Oxford, England, September 1982.
69. Drugs, Medications and Breeding Horses, Munster Thoroughbred Breeders Society, Cashel, Ireland, October 1982.
70. Problems, Perceptions and Scientific Realities in Racehorse Medications, invited presentation, Auburn University, Auburn, Alabama, October 1982.
71. Drugs and Performance Horses, Kentucky Horsemen's Short Course, October 1982.
72. Drugs and Performance Horses, University of Calgary, Canada, February 1983.
73. Drugs and Performance Horses, University of Saskatoon, Saskatchewan, Canada, February 1983.
74. Drugs and Performance Horses, Harness Horsemen's Association, Columbus, Ohio, March 1983.
75. Testimony before the Judiciary Committee, Subcommittee on Criminal Justice, Washington, DC, May 1983, "Phenylbutazone, Furosemide and Drug Testing."
76. Drugs and Racing Horses, College of Veterinary Medicine, University of Illinois, November 1983.
77. Phenylbutazone and Furosemide in the Racing Horse, Veterinary College of Ireland, Dublin, Ireland, January 1984.
78. Drugs, Equine Performance, Drugs in the Growing Horse, Horsemen's Short Course, University of Nevada, Reno, February 1984.
79. Plasma Levels of Phenylbutazone in Racing Horses invited presentation American Academy of Veterinary Pharmacology and Therapeutics, College Station, Texas, April 1984.
80. Pain Perception and Control in Equines, Proceedings of the Fifth Int’l Symposium on Equine Medication Control, Toronto, Canada, June 1984.
81. The Foreign Substance Rule: Presentation to the Board of the HBPA, Cleveland, Ohio, July 1984.
82. Drug Detection in Racehorses, Forensic Decisions on Drug Testing in Racehorses, Antibiotics in Equine Medicine, four hours of lecture, South Florida Veterinary Medical Association, Miami, Florida, Labor Day, 1984.
83. Drugs, Medication Rules and Performance Horses, four hour seminar, The Caribbean Veterinary Medication Association, Trinidad, November 1984.
84. Medication and Testing for Drugs in Racehorses, Transylvania University, Lexington, KY, February 1985.
85. Drug Detection in Racehorses, Forensic Decisions Based on Drug Detection in Racehorses and Antibiotics in Equine Medicine, four hour seminar, New Jersey Veterinary Medical Association, Atlantic City, March 1985.
86. Drug Detection in Racing Horses and Antibiotic Use in Equine Medicine, four hour seminar, Indiana Veterinary Medical Association, Indianapolis, March 1985.
87. Experiences as an Expert Witness, Educating People While under Oath, presented at the Sixth Int’l Symposium on Equine Medication Control, Hong Kong, 1985.
88. Drugs and Racing Horses, New Hampshire Vet Med Assoc., New Hampshire, February 1986, four hours of continuing education.
89. Keeping Track, California Thoroughbred Breeders Assoc., Breeders Cup Meet, Oct. 27, 1986, Pasadena, California, Use of Medication During a Horse's Racing Career: Does It Mask Inheritable Defects.
90. Drugs and the Performance Horse, Irish Veterinary Association Meeting, Kildare, Ireland, December 1987.
91. Immunoassay Testing in Equine Forensic Chemistry, Southern Group, Irish Thoroughbred Breeders, Killoran Lodge, Co. Tipperary, Ireland, September 1988.
92. ELISA Testing for Drugs: A New Technology, Institute for Mines and Minerals, Lexington, KY, September 1988.
93. ELISA Testing for Drugs in Horses: A New Technology, Bologna, Italy, October 1988.
94. ELISA Testing for Drugs in Horses: A New Drug Testing Technology, North American Judges and Stewards Conference, Livonia, Michigan, October 1988.
95. ELISA Testing for Drugs in Horses, Harness Expo, Pompano Beach, Florida, November 1988.
96. Performance Effects of Drugs in Horses, American Association of Equine Practitioners, San Diego, California, December 1988.
97. ELISA Testing for Drugs in Racing Horses, U.N.I.R.E, Rome, Italy, March 1989.
98. Drugs, Equine Performance and ELISA Testing for Drugs, Equitana, Essen, West Germany, April 1989.
99. Bain Fallon Lectures, eight lectures on Equine Pharmacology and Drug Testing, Coffs Harbour, Australia, May 1989.
100. Invited Lecture Tour, North and South Islands, New Zealand, three locations, 18 lectures, May 1989.
101. Thoroughbred Racing Protective Bureau, ELISA Testing in Racing Horses, Minneapolis, Minnesota, October 1989.
102. Quality Assurance Program Legal Seminar, St. Louis, Missouri, Trace Levels in Equine Drug Testing, November 1989.
103. Drug Testing in Racing Horses, four seminars’ presentations in Mexico City, December 1989.
104. Invited presentations, Eighth International Symposium on Equine Medication Control, Harare, Zimbabwe, February 1990.
105. Southern Arizona Veterinary Medical Association, Tucson, Arizona, Six seminars on medication in Racing Horses, June 1990.
106. ELISA Testing in Racing Horses, Central Kentucky Farm Manager's Club, June 1990.
107. Five lectures to veterinarians, Buenos Aires, November 1990.
108. Four lectures to administrators, Buenos Aires, November 1990.
109. Twelve lectures to Oklahoma Veterinary Medical Association, Oklahoma City, Oklahoma, and January 11-12, 1991.
110. Drug Testing and the Graduate Center for Toxicology at the University of Kentucky, Kentucky State University, February 1991.
111. Drug Testing and Exotic Drugs in Racing Horses, Johnson & Wells University, Providence, Rhode Island, February 1991.
112. Six presentations to the South African Equine Practitioners Association, February 18-19, 1991, Caledon, Cape Province, South Africa.
113. Presentation to Cape town Turf Club Members on ELISA Testing and Drug Testing in Racing Horses, February 19, 1991.
114. Presentation to Durban Turf Club Members on ELISA Testing and Drug Testing in Racing Horses, February 20, 1991.
115. Presentation to Turffontein (Johannesburg) Turf Club Members on ELISA Testing and Drug Testing in Racing Horses, February 21, 1991.
116. Expert testimony, South Africa, Affidavit for Turffontein Turf Club on Narcotic Analgesics in Racing Horses. February 1991.
117. Four presentations to the Indiana Equine Veterinarians Group on Drugs, Drug Testing and ELISA Testing in Racing Horses, Andersonville, Indiana, March 13, 1991.
118. Drugs, Racehorses and Illegal Drug Detection, Benedict College, Columbia, South Carolina, April 1991.
119. Trace Levels of Medications in Racing Horses invited presentation to the floor, Racing Commissioners International Meeting, Cincinnati, Ohio, May 1991.
120. American Association of Clinical Chemistry, Southeast Ohio Valley Group, ELISA Based Analytical Procedures: A Revolution in Equine Drug Testing, Lexington, Kentucky, October 12, 1991.
121. Expert Testimony on Testosterone in Racing Horses on behalf of Iowa Racing Commission Hearing, December 1991.
122. Expert testimony, Cook County Courthouse, State *vs* Wilkie, June 1991, on behalf of prosecutor.
123. Two phone depositions, Hearing on Glycopyrollate, California Horse Racing Board, January & February 1992, commission witness.
124. Deposition/Affidavit on behalf of the Colorado State Racing Commission on Pharmacology of Isoxsuprine, August 1992.
125. Immunology and the Betting Window, presentation to the Clinical Ligand Assay Society, St. Louis, Missouri, November 1992.
126. Immunology and the Betting Window. Presentation to Sigma Diagnostics Group, Sigma Chemical Company, St. Louis, Missouri, November 1992.
127. Review of videotape for the Suretie of the Province of Quebec, Quebec, Canada.
128. Use of Analgesics in Racing Horses and Their Regulatory Control invited presentation, British Equine Veterinary Association, September 1993.
129. Four lectures on Control of Medications in Racing Horses, Royal Western India Turf Club, Bombay, India, January 3, 1994.
130. Presentation on Control of Therapeutic Medications in Racing Horses, Kunigal Stud, Bangalore, January 5, 1994.
131. Presentation on Control of Medication in Racing Horses to HRH Prince Miteb, HH Prince Sultan, the Executive Director of the Riyadh Equestrian Club and the club’s veterinarians, Riyadh, Saudi Arabia, January 11, 1994.
132. Invited presentation on Thresholds and Clearance Times for Therapeutic Agents in Racing Horses, Winter meeting of HBPA, Hot Springs, Arkansas, February 21, 1994.
133. Invited presentation on Thresholds and Clearance Times for Therapeutic Agents in Racing Horses, ARCI meeting, Las Vegas, Nevada, May 23, 1994.
134. Invited presentation on No Effect Thresholds for Local Anesthetics in Racing Horses, 10th International Conference of Racing Analysts and Veterinarians, Stockholm, Sweden, July 7, 1994.
135. Presentation on Workshop on Testing for Therapeutic Medications, Environmental and Dietary Substances in Racing Horses to National Summer HBPA Meeting, Chicago, Illinois, July 25, 1994.
136. Workshop on Testing for Therapeutic Medications, Environmental and Dietary Substances in Racing Horses, Lexington, Kentucky, August 18-19, 1994.
137. Invited presentation on the outcome of the Workshop on Testing for Therapeutic Medications, Environmental and Dietary Substances in Racing Horses, AAEP Annual Meeting, Vancouver, British Columbia, Saturday, December 3, 1994.
138. Invited presentation, panel discussion "Are You Positive You Are Negative", University of Arizona Conference on Racing, Tucson, Arizona, December 8, 1994.
139. Report on "Thresholds for Therapeutic Medications in Racing Horses", Spring meeting of the National Horsemen's Benevolent and Protective Association, Houston, Texas, April 13, 1995.
140. The Need for Thresholds for Therapeutic Medications in Racing Horses, Farm Manager's Club, Lexington, Kentucky, April 4, 1995.
141. Thresholds for Therapeutic Medications in Racing Horses: A Television/Live Presentation at the ARCI Meeting in Oklahoma City, Oklahoma, April 23, 1995. Arranged for TV clips by Wayne Lukas, Dick Mandella and John Forsythe, structured program in association with Scott Stanley and Rick Sams.
142. Television clips: a) Amantadine and Rimantadine Prophylaxis of Equine Influenza, b) Thresholds for Therapeutic Medications in Racing Horses. Clips made April 18, 1995, for Derby release.
143. University of Kentucky Equine Law Seminar invited presentation on Thresholds in Equine Medication Control, Thursday, May 4, 1995.
144. Kentucky Equine Research Short Course "Recent Advances in Equine Nutrition", "Drugs and Drug Testing: What Should the Feed Manufacturer Know," May 11, 1995, Lexington, Kentucky.
145. Presentation, Irish Turf Club Analytical Laboratory Review Committee, June 21, 1995.
146. Invited presentation: "Update on Equine Medication Research," Salishan Lodge, Oregon, July 25, 1995. Voted Man of the Year by the National HBPA.
147. Calgary Exhibition and Stampede: Opinion letter to defuse Chuck Wagon Racing Crisis, August 1995.
148. Expert opinion on Clanobutin, The Southern Africa Jockey Club, Nov. 1995.
149. Invited Review, Irish Turf Club, September 1995, Kildangan Stud, Co Kildare
150. Invited Presentations on Equine Medication. Indiana Veterinary Medical Association. February 1996.
151. Invited Presentation, "Doping or Therapeutic Medication" The Dutch Association of Equine practitioners, Amersfoort, Holland, March 6, 1996.
152. "Medication and Medication Control in Racing Horses," Hirsch Series Speaker Lectures, the University of Tucson, Tucson, Arizona, March 29, 1996.
153. Expert opinion on Sodium Bicarbonate: For the Oregon State Racing Commission, March 1996.
154. Invited Presentation, International Conference of Racing Analysts and Veterinarians, Report on Workshop on "Testing for Therapeutic Medications, Environmental and Dietary Substances in Racing Horses, May 1996, Brisbane, Australia.
155. Invited Presentation, "Therapeutic Medications, “No Effect Thresholds” and the Performance Horse” The Members Room, Kalgoorlie Turf Club, Kalgoorlie, Western Australia, May 27, 1996.
156. Invited Presentation, “Therapeutic Medications, “No Effect Thresholds” and the Performance Horse” The Southern Districts Thoroughbred Association Supported by The Breeders, Owners, Trainers, and Reinsmen Association Trotting Association, Golden Nugget Room, Gloucester Park, Perth, Western Australia, May 30, 1996.
157. Invited Presentation, “Therapeutic Medications, “No Effect Thresholds” and the Performance Horse” A Presentation at Ellerslie Racecourse, Auckland, New Zealand, June 1, 1996.
158. “Therapeutic Medications, “No Effect Thresholds” and the Performance Horse” A Presentation to Equine Practitioners and Regulators, Auckland University Medical Center, New Zealand, June 2, 1996.
159. “The Detection, Actions, Uses and Effects of Drugs and Medications in Performance Horses”. A series of seminars to BHP staff, Limerick, Ireland, July 1-5, 1996.
160. “The Philosophical Basis For “No Effect Thresholds” or “NETs.” Annual Conference of the American Veterinary Medical Association, Louisville, Kentucky July 21, 1996.
161. South American Anti-Doping Technology and Medication Testing Conference - The Jockey Club of Brasiliero. August 8th and 9th, 1996, The Rio De Janeiro JCB Central Offices.
162. “Performance Affection Agents and Medications in Racing Horse: An Overview of Their Uses and Effects in Racing Horses”
163. “Testing for Performance Affecting Agents and Medications in Racing Horses”
164. “Testing for Therapeutic Medications, Environmental and Dietary Substances: The Need for Limited Sensitivity Testing”.
165. “The North American Approach to Medication Control; The ARCI Foreign Substances Classification System and the American Association of Equine Practitioners Therapeutic Medication List”.
166. “No Effect Thresholds”: One North American Approach to Limiting the Sensitivity of Testing for Approved Therapeutic Agents.
167. The Jockey Club of Sao Paulo, Sao Paulo, Brazil, August 12th, 1996. Two hour seminar on “Equine Medication Control in North America and “No Effect Thresholds” or NETS.
168. UNESP at Jaboticabal, Jaboticabal Veterinary School, August 13th, 1996. One hour seminar on “Equine Medication Control in North America and “No Effect Thresholds” or NETS.
169. Presentations to the “Confederacion Hipica De Puerto Rico, Inc.” Second Technical Convention. El Conquistador Beach Resort, Puerto Rico, Sept. 15th, 1996.
170. Trinidad and Tobago Racing Authority, Santa Rosa Racing Facility, Churchill Roosevelt Highway, O’Meara, Arima, Trinidad. September 27th, 1996.
171. “Performance Affecting Agents and Medications in Racing Horse: An Overview of Their Detection, Actions, Effects and Uses.”
172. “Limited Sensitivity Testing for Therapeutic Medications, the ARCI Foreign Substances Classification System, the American Association of Equine Practitioners Therapeutic Medication List and Developing “No Effect Thresholds” or NETs.
173. Environmental and Dietary Contaminants and “Positives”. AAEP Denver, Sunday, December 8, 1996.
174. Quantification of Pharmacological Response in the Horse.” U of Arizona RTIP, Tucson, Dec 11th, 1996.
175. "Thresholds Research Progress.” Two presentations to HBPA December 15th and 16th, Phoenix, AZ, Dec. 1996.
176. Video Teleconference: “Overview of Medication Control” distance seminar format for Maryland practitioners, presented, March 1997.
177. Presentations on “Drug Detection and Control in Racing Animals” at the Scientific Centre for Racing Camels, Al Ain, Abu Dhabi, United Arab Emirates, April 7-8th 1997.
178. “Regulators, Regulations and the Marketing of Therapeutic Medications” April 16-17th 1997, Merck Inc., Rahaway, New Jersey.
179. Presentation on Equine Protozoal Myelitis, Equine Dressage Clinic, New Jersey. April 19th, 1997.
180. Presentation on analytical/pharmacological relationships for Lidocaine, Association of Racing Commissioners International meeting. Boston, Sunday April 20th, 1997.
181. Review of analytical/pharmacological relationships for therapeutic and performance altering drugs, seminar presentation, BHP, Limerick, Ireland, July 3, 1997.
182. Presentation on “Developing and Marketing ELISA Tests in an Evolving Regulatory Environment”. Washington, DC. July 17-18th, 1997.
183. “Analytical/Pharmacological Relationships for Therapeutic Medications”. Summer HBPA conference, Las Vegas, Nevada, 1997.
184. “Analytical Pharmacological Relationships: An Overview of Progress”. Testing Integrity Program, New Bolton Center, Philadelphia, PA., September 1998.
185. Presentation on “Lasix and EIPH” on behalf of the Thoroughbred Owners & Breeders Association. The Breeder’s Cup, Hollywood Park, California, 1997.
186. “Analytical Pharmacological Relationships” update on progress in this field. Presented to the National HBPA, Ft. Lauderdale, Florida, January 1998.
187. Television clip – Super science “Diclazuril and EPM,” Monday, February 9th, 1998, Channel 36 Lexington KY.
188. Presentation on “Diclazuril and Equine Protozoal Myelitis” Eighth International Conference on Infectious Diseases. Dubai, United Arab Emirates, March 1998.
189. Presentations on “Analytical-Pharmacological Relationships,” Reviews and specific cases, the 12th International Conference of Racing Analysts and Veterinarians, Vancouver, British Colombia, April 1998.
190. “Hay, Oats & Water – Then (?) and Now,” Presentation to the Thoroughbred Owners of California, July 23, Del Mar, California, 1998.
191. “Hay, Oats & Water – Then (?) and Now” Presentation to the Medication Committee and the Board of the National HBPA, Des Moines, Iowa, July 26th and 27th, 1998.
192. “EPM and the Performance Horse: New Treatments and Management Options” Presented at the Kentucky Horse Council Seminar, Red Mile Place, Lexington, November 25th, 1998.
193. “Limits on the Sensitivity of Testing” Conference on Applied Biotechniques in the Equine, Brazilian Horse Breeders. Belo Horizonte, Brazil, November 25th, 1998.
194. “Limits on the Sensitivity of Testing” Sao Paulo Veterinarians and Regulators Group, Sao Paulo, Brazil, November 26th, 1998.
195. “Limits on the Sensitivity of Testing” College of Veterinary Medicine, Jaboticabal, Brazil, November 27th, 1998.
196. Representing Testing Integrity Program (TIP) at the Racetrack Industry Testing Program, Tucson, Arizona, December 10th, 1998.
197. “Analytical Techniques in Racing Chemistry” BHP Laboratories, Limerick, Ireland. January 8th, 1999.
198. “Limitations of the Sensitivity of Testing”. Presentation to Harness Racing Stewards, Perth, WA, January 11th, 1999.
199. Clenbuterol: Review of current research in this area. Presentation to the Medication Committee, National Horsemen’s Benevolent & Protective Association, January 16th, Ft. Lauderdale, FL.
200. Seminar for Merial on introduction of Omeprazole in Equine Market. Boston, MA, February 26,1999.
201. “Panel of Experts on Medication” March 6th, 1999, Orlando Florida. **Thomas Tobin**, Richard Sams, George Maylin, and Thomas Lomangino. Hosted by Stan Bergstein of Harness Tracks of America.
202. Six plus presentations to the Association of Official Racing Chemists on Drug Testing in Racing Horses, March 10th - March 16th, 1999, New Orleans, Louisiana
203. Presentation on Drug Testing and medication control, March 26th, 1999, Dover, Delaware, Seminar @ Delaware Harness Commission Offices.
204. Seminar on Medication Control, June 24, 25th, 26th, 1999, Boston, MA for The Controlled Release Society.
205. Attendance at the National Council of Legislators from Gaming States (NCLGS) Seminar, July 11th, 1999, Louisville, KY
206. Presentation on Clenbuterol, July 16th - 17th, 1999, Chicago, Illinois. Association of Racing Commissioners International (ARCI) Workshop.
207. Attendance at Summer Meeting of The Horsemen’s Benevolent and Protective Association Meeting, August 2nd - 6th, 1999, Seattle, Washington.
208. Presentation to Thoroughbred Owners of California, Del Mar Racetrack, August 7th, 1999, San Diego, California.
209. “Seminar on Clenbuterol”; August 21st, 1999; Association of Racing Commissioners International, Del Mar Hilton; San Diego, CA
210. Presentation on Clenbuterol Regulation. October 9th - 11th, 1999, Palm Beach, FL. Presentation on Clenbuterol Regulation. National Association of Pari-mutuel Regulators.
211. Presentation on “Equine Medication Control: Clenbuterol and Cocaine.” National HBPA Meeting, New Orleans, LA, January 30 - February 1, 2000.
212. “SuperTesting”: Seminar at the Gluck Equine Research Center with Mr. James Gallagher of the NTRA February 7th, 2000.
213. Organization of Racing Investigators, Keeneland, Lexington, KY. “Past, Present and Future of Horse Drug Testing”. Wednesday, March 22nd, 2000.
214. Testing Integrity Program, Davis, California. March 30th - April 1, 2000. Presentations on Clenbuterol, Cocaine and Pyrilamine.
215. “Therapeutic Medication of Racing Horses: A Short Course”; Kentucky Racing Commission/Kentucky Racing Commission/Kentucky Equine Drug Council. Short Course, Three Hours. Keeneland, April 21st, 2000.
216. New Directions in Equine Drug and Medication Testing. Equine Law Section of the Kentucky Bar Association. Marriott Griffin Gate, May 3, 2000.
217. “Therapeutic Medication of Racing Horses: A Short Course”: Kentucky Racing Commission/Kentucky Racing Commission/Kentucky Equine Drug Council. Short Course, Three Hours. Churchill Downs, June 8, 2000.
218. Invited presentation and discussion group on Product Entry into the Equine Market, Boehringer/3M at the 3M Corporate Retreat, Wonewok, Wisconsin, June 9-12, 2000.
219. Representing the Department and the College of Agriculture at the “Memoire” of Mr. Cedric Holtz, Dijon, France, July 26, 2000.
220. Review of Equine Research. National Horsemen’s Benevolent and Protective Association, Minneapolis, Minnesota, August 4, 2000. Charles Hughes and **Thomas Tobin**
221. Clenbuterol in the Horse: An Overview. The 3M Corporation, Minneapolis, Minnesota, August 5, 2000. Charles Hughes and **Thomas Tobin**.
222. Invited presentation to 13th International Conference of Racing Analysts and Veterinarians. “No Effect Levels – an Overview and a Pharmacological Approach.” Cambridge, England, August 9, 2000.
223. “Therapeutic Medication of Racing Horses: A Short Course”: Kentucky Racing Commission/Kentucky Racing Commission/Kentucky Equine Drug Council. Short Course, Three Hours. Ellis Park, June 8, 2000.
224. Eighth Testing Integrity Workshop. “High Sensitivity and High Throughput ELISA and Mass Spectral Analysis.” Lexington, Kentucky. October 6,7, and 8, 2000.
225. “Therapeutic Medication and Racing Horses: A Short Course.” Extended program with three guest faculty and 50+ registrants. Churchill Downs, Louisville, KY. October 31, 2000.
226. “Medication: Then and Now.” Stewards Accreditation Short Course. University of Louisville, November 13, 2000.
227. Invited panelist, “Therapeutic Medication and the Racing Horse.” The American Association of Equine Practitioners Meeting, San Antonio, Texas. November 2000.
228. Invited speaker, Testing Integrity Program, Racetrack Industry Program. Tucson, Arizona. December 2000.
229. Therapeutic Medication & Racing Horses: A Short Course: Turfway Park, LLC, Florence, Kentucky. March 20, 2001. Guest Faculty: Dr. Mitzi Fisher, Dr. Thomas Wood; 40 registrants.
230. The Commission Veterinarian/Equine Medical Director 2001: A Short Course: Kentucky Derby Museum, Louisville, Kentucky. May 1-2, 2001. Extensive guest faculty; 80+registrants/participants, extensive international list of attendees.
231. Presentation on the Mare Reproductive Loss Syndrome (MRLS), Keeneland, May 28th, 2001.
232. Board Meeting, Thoroughbred Owners of California, Del Mar, California, Saturday, July 21st, 2001.
233. With Dr. Levent Dirikolu, presentation on Formulation Strategies for Clazuril Anti-Protozoals, Bayer Animal Health, Kansas City, Kansas, August 10th, 2001.
234. “Zero Tolerance – A Myth” presentation to the Board of the National Horsemen’s Benevolent and Protective Association, Copley Plaza, Boston, MA, Monday, August 13th, 2001.
235. College of Veterinary Medicine, Cordoba, Argentina, August 16th, 17th and 18th – 14 lectures in Continuing Education Short Course, Honorary Faculty Member, College of Veterinary Medicine of the Province of Cordoba.
236. Cordoba: History of Equine Medication Control: Medication Control from the early Eighteen-hundreds to today.
237. Cordoba: Equine Drugs and Medications: Their absorption, distribution, metabolism and elimination in the horse. Equine Drug Metabolism: an overview of why chemists test horse urine. Equine Drug Testing: an overview.
238. Cordoba: An overview of the Pharmacological Actions of Performance altering Drugs effects, including how drugs and medications are used to influence racing performance.
239. Cordoba: The “NO Effect Threshold” concept and how “No effect Thresholds” are developed.
240. Cordoba: The Narcotic Analgesics and their actions and detection in the Horse.
241. Cordoba: Central Stimulant Drugs and their actions and effects.
242. Cordoba: Selected Tranquilizers and their actions and effects (class 2 agents).
243. Cordoba: Selected Tranquilizers and their actions and effects (class 3 agents).
244. Cordoba: Selected Bronchodilators and their actions and effects.
245. Cordoba: Selected Non-steroidal Anti-inflammatory Medications and their actions and effects.
246. Cordoba: Furosemide and other agents used in the control of Exercise Induced Pulmonary Hemorrhage….
247. Cordoba: Anabolics and their actions and effects.
248. Cordoba: The rules of the Therapeutic Road.
249. Cordoba: Equine Protozoal Myelitis: A New Therapeutic Approach.
250. Dubai Grass Sickness Research Group, Dubai, UAR. Presentation on “Toxicokinetics of Cyanide in the Horse”, September 22nd, 2001. Dubai Millennium Medal.
251. Chicago Hilton, Boehringer Ingelheim Working Group on Torpex. Presentation on Detection Times for Albuterol after Administration by Torpex. October 16th, 2001.
252. Keeneland Racecourse. Presentation and Press Conference on “Proposed Policy on Drug and Medication Testing” by the National Horsemen’s Benevolent and Protective Association., October 18th, 2001.
253. Attendance and Presentations at TIP Meeting and AAEP Medication Summit, Tucson, Arizona, December 2001.
254. “Overview of the Proposed Policy on Drug Testing and Medication Control,” Las Vegas, Nevada, Tuesday, January 22nd , 2002.
255. “An Overview of MRLS”, Karakata Sales Complex, Karakata, New Zealand. Sponsored by the University of Auckland, January 26th, 2002.
256. “An Overview of Equine Medication Research”. Presented to the Board of the Florida HBPA, Gulfstream Park, February 14th , 2002.
257. Equine Medication Control Thresholds: An Overview. The Conference Center, Bank of Nova Scotia, Kingston, Jamaica, April 18th, 2002.
258. Furosemide and EIPH: An Overview. The Conference Center, Bank of Nova Scotia, Kingston, Jamaica, April 18th, 2002.
259. Highest No-Effect Dose for Pharmacological Responses to Acepromazine in the Horse: A Preliminary Communication. Presented to the Research Committee of the Testing Integrity Program, May 1st, 2002.
260. “ELISA Testing of Racing Horses: A Regulatory Revolution”. Presented for the California Association of Toxicologists, Tempe, Arizona, May 18th, 2002.
261. “Town and Gown: Academic ‘Spin-offs’ in the Bluegrass”. Presented to the Lexington Kiwanis Club, Kentucky Inn, Lexington, Kentucky, July 9th, 2002.
262. Intellectual Property Presentation with Videotape in Support of a Patent Application on a New Equine Sedative, Analgesic and Tranquilizer. The Patent Office, Washington, D.C., July 11th, 2002.
263. Presentation to Medication Committee of the National Horsemen’s Benevolent and Protective Association, Vancouver, Canada, July 19th, 2002.
264. An overview of current drug issues in racing and comparison of medication rules around the world. Australian Equine Veterinary Association invited lecture, Bain-Fallon Lectures, The Gold Coast, Australia, July 2002.
265. Practical experiences with drug testing in the pre-purchase in the USA and other places. Australian Equine Veterinary Association invited lecture, Bain-Fallon Lectures, The Gold Coast, Australia, July 2002.
266. Factors affecting the excretion time and detection limits for NSAIDs-PBZ, Finadyne, ketoprofen, Meclofenamic acid, meloxicam, etc. Australian Equine Veterinary Association invited lecture, Bain-Fallon Lectures, The Gold Coast, Australia, July 2002.
267. Sensitivity of testing, threshold levels and minimum pharmacologic activity. Australian Equine Veterinary Association invited lecture, Bain-Fallon Lectures, The Gold Coast, Australia, July 2002.
268. Excretion and detection of corticosteroids – triamcinolone, DepoMedrol, Voren depot, dexamethasone, betamethasone, etc. Australian Equine Veterinary Association invited lecture, Bain-Fallon Lectures, The Gold Coast, Australia, July 2002.
269. Anabolic steroids – excretion and detection of oil and water based, injectable and oral. Australian Equine Veterinary Association invited lecture, Bain-Fallon Lectures, The Gold Coast, Australia, July 2002.
270. Sedatives – excretion and detection. Australian Equine Veterinary Association invited lecture, Bain-Fallon Lectures, The Gold Coast, Australia, July 2002.
271. Excretion and detection of medications used to treat respiratory tract disease e.g., clenbuterol, dembrexine, Lasix, etc., nebulized drugs vs systemic. Australian Equine Veterinary Association invited lecture, Bain-Fallon Lectures, The Gold Coast, Australia, July 2002.
272. Look to the future new drugs, new tests and an overview of MRLS research. Australian Equine Veterinary Association invited lecture, Bain-Fallon Lectures, The Gold Coast, Australia, July 2002.
273. Drug and Medication Testing and Its Regulatory Control. Stewards Short Course, Retama Park, San Antonio, Texas, September 17, 2002.
274. Erythropoietin in Racing Horses: Detection and Regulatory Control. Stewards Short Course, Retama Park, San Antonio, Texas, September 17, 2002.
275. Shock Wave Therapy in Racing Horses: Detection and Regulatory Control. Stewards Short Course, Retama Park, San Antonio, Texas, September 17, 2002.
276. Presentation on new Kentucky Medication Rule. Kentucky Racing Commission Meeting, The Red Mile, September 24, 2002.
277. “Drug and Medication Detection in Racing Horses.” Kentucky Equine Management Internships, Gluck Equine Research Center, Lexington, Kentucky, October 9, 2002.
278. Drug and Medication Testing and Regulatory Control in Racing Horses. Stewards Short Course, Louisville, Kentucky, November 12, 2002.
279. Town and Gown: Academic “Spin-offs” in the Bluegrass, with a minor in caterpillars. Presented to the Lexington Sunrise Rotary Club, The Lafayette Club, Lexington, Kentucky, November 26, 2002.
280. Phoenix Arizona, National Horsemen’s Benevolent and Protective Association, Winter Meeting. Presentation on National HBPA Proposed Policy on Drug Testing and Therapeutic Medication. January 26, 2003.
281. New Orleans, Louisiana. National Horsemen’s Benevolent and Protective Association Winter Convention. January 31, 2004.
282. Atlanta, Georgia. Clayton State University Biology Seminar. March 9, 2004.
283. Dubai, UAE: 15th International Conference of Racing Analysts and Veterinarians, March 19-26, 2004.
284. Portland Oregon: National Horsemen’s Benevolent and Protective Association Summer Meeting, July 21st-24th, 2004
285. Louisville KY. American Association of Equine Practitioners workshop, Brown Hotel, Louisville, July 25th, 2004.
286. Istanbul Turkey, Invited Presentation, International Racehorse Owners Association, August 21st- 24th, 2004.
287. Rio Jockey Club, Invited Presentation, Nov 1st, 2004.
288. Congreso Mundial Equino Confepaso, November 19-21, 2004.
289. January 15-18, 2005 , National Horsemen’s Benevolent and Protective Association Winter Meeting, San Antonio, Texas, Presentation on the matter of trace level morphine identifications and regulatory approaches to the same
290. Attended Equine Guelph Research Meeting as representative of Ontario Horsemen’s Benevolent and Protective Association and as Equine Guelph Grant Reviewer. Feb 15th-16th, 2005
291. Visit to Oklahoma City to present to the Oklahoma Horse Racing Commission concerning medication rules. June 16th, 2005
292. November 21–23, 2005, Congreso Mundial Equino Confepaso, Fedequinas Congress San Juan, Puerto Rico, Review of Equine Drug Testing, Performance Affecting Substances and Regulation of Therapeutic Medications in Paso Fino Horses
293. National Horsemen’s Benevolent and Protective Association, Summer Meeting, Toronto, Ontario, Canada, July 20-24th 2005. Presentation on the matter of trace level identifications of dexamethasone in racing horses
294. Presentation at 51st Annual Convention American Association of Equine Practitioners Seattle, Washington, Dec3-6th, 2005. Camargo FC, **Tobin T**: “A Review of Environmental Morphine Identifications (EMIs): Worldwide Occurrences and Responses of Authorities”. Proc 51st Annual Convention American Association of Equine Practitioners pp 58-64, 2005.
295. Presentation at 52nd Annual Convention American Association of Equine Practitioners, December 2006, San Antonio, Texas; presentation, Camargo FC, Hughes C, Lehner AF, Stirling K, **Tobin T**: “Trace” Benzoylecgonine (BZE) Identifications In Post-Race Urines: Probable Sources And Regulatory Significance Of Such Identifications. In Press, Proc 52nd Annual Convention American Association of Equine Practitioners, December 2006, San Antonio, Texas
296. Congreso Mundial Equino Confepaso, Fedequinas Congress, Bogota, Colombia, October 2006 .28th and 29th,two platform presentations, “Avoiding Inconsequential "Positives": The Rules of the Regulatory Road for Regulators” **T. Tobin** and K.H. Stirling and “Horsemen Avoiding Positives: The Rules of the Therapeutic Road” **T. Tobin** and K.H. Stirling.
297. 16th International Conference of Racing Analysts and Veterinarians, Tokyo, Japan, October 21-27th, 2006, platform presentation “Synthesis of deuterated analytical standards: Ketoprofen-d3 and Flunixin-d3. Proceedings of the 16th International Conference of Racing Analysts and Veterinarians, Tokyo, Japan.
298. August 15th, 2006, Thoroughbred Owners of California (TOC), Annual Medication Meeting, invited presentation, donation in support of Gluck research program, presentation on deriving thresholds for therapeutic medications and visit with UC Davis faculty and CHRB and TOC staff.
299. National Horsemen’s Benevolent and Protective Association, Summer Meeting, Minneapolis, July 13th-14th 2006, Invited presentation on the “Brass Hat” matter and the need for concentration thresholds for therapeutic medications.
300. American Endurance Riders Annual Conference (AERC), San Antonio Texas, February 24-25, 2006. Crowne Plaza Riverwalk, San Antonio “**Thomas Tobin**, University of Kentucky’s Gluck Equine Research Center.
301. Visit to Abu Dhabi, personal guest of HH Sheik Zayed bin Sultan al Nahyan of the Abu Dhabi Royal Family; January 16-19th 2006. Review of Endurance Racing and discussions and presentations concerning same and invitation to support UK research Program.
302. National Horsemen’s Benevolent and Protective Association Winter Meeting, Tampa Florida, January 13th-14th 2006. Presentation on the matter of trace level benzoylecgonine detections, with particular reference to recent matters in Indiana and West Virginia.
303. Orlando Florida, December 1-4, 2007. Attendance at Orlando AAEP meeting and presentation of paper on regulatory thresholds for caffeine and related substances.
304. Buenos Aires, Montevideo, Sao Paulo, November 2-13th 2007. Presentations in Buenos Aires, lecture series the Uruguayan Veterinary Medical Association November 8-9th, 10 lectures covering various aspects of equine drug testing and therapeutic medication.
305. Sao Paulo, Nov 10-12th 2007. Guest of Sao Paulo, Jockey Club, review of Sao Paulo, equine drug testing laboratory, race named in honor of Thomas Tobin and visit with Senior Sao Paulo Jockey Club Member Baroness Margarida Polak Lara whose horse won the race and presentation of the prize to her.
306. Bogotá Colombia, October 28-29th 2007. Attended Fedequinas Association Biannual International Congress and gave two Invited platform presentations on therapeutic medication regulation.
307. Williamsburg, Virginia July 17-20, 2007. Attended the summer National Horsemen's Benevolent and Protective Association meeting and gave a platform presentation to the meeting.
308. San Diego, California, December 4-6, 2008. Attendance at AAEP at San Diego and presentation of paper on regulatory thresholds for therapeutic medications
309. Antalya, Turkey, October 11- 17, 2008. Attended 17th international conference of Racing Analysts and Veterinarians, one platform presentation on tramadol in horses, and three co -authored presentations.
310. Toronto Ontario, September 23-24, 2008. Presentation to Ontario Racing Commission group on thresholds for morphine in post-race samples, supported by the Ontario HBPA.
311. West Chester, Pennsylvania, August 4-5, 2008. Visit with Pennsylvania Equine Drug Testing and Research laboratory and the University of Pennsylvania at Kennett Square as part of a certified reference standards Project.
312. Hershey, Pennsylvania, July 18-20, 2008. Attendance at summer meeting of the National Horsemen's Benevolent and Protective Association, presentation on the 2008 iteration of the National HBPA Proposed Policy for Drug Testing and Therapeutic Medication Regulation.
313. Davis, California, April 27-30, 2008. Attendance at Racing & Medication Testing Consortium workshop on Anabolic Steroid Analysis, on behalf of the National Horsemen's Benevolent and Protective Association
314. Lexington, Kentucky, April 17, 2008. Attendance at Fourth Kentucky Innovation and Enterprise Conference and poster presentation
315. New Orleans, Louisiana, January 24-27, 2009. Attendance and presentation on anabolic steroid testing at the National Horsemen's Benevolent and Protective Association Winter Conference .
316. Shepherdstown, WVA . (2009) Oral presentation at National Horsemen's Benevolent and Protective Association Summer Convention , Thresholds: How we got to where we are, the Indiana project, and where we are heading
317. Dublin, Ireland November 7th (2009) Oral presentation at University College. Equine Medication Regulation: 1800 to November 7th, 2009.
318. Dublin, Ireland (2009) Oral presentation at Irish Veterinary Association Equine Division. The Mare Reproductive Loss Syndrome in Kentucky, 2001/2002
319. Tucson, AZ (2009) Oral presentation at National Horsemen's Benevolent and Protective Association Winter Meeting, Anabolic Steroid Regulation: An "OK" Proposal
320. Queenstown, New Zealand , March 7-13 (2010) Oral presentation at 18th International Conference of Racing Analysts and Veterinarians “Certified Reference Standards and Stable Isotope Internal Standards for Equine Therapeutic Medication Regulation. ”
321. Queenstown, New Zealand, March 7-13 (2010) Oral presentation at 18th International Conference of Racing Analysts and Veterinarians “The role of expert testimony in adversarial proceedings.”
322. Queenstown, New Zealand , March 7-13 (2010) Oral presentation at 18th International Conference of Racing Analysts and Veterinarians “Experiences as an Expert: Educating People While Under Oath, 25 Years since Hong Kong.”
323. Minneapolis, Minnesota July 23rd (2010) Presentation at National HBPA Summer meeting “Fatal Musculoskeletal Injury Rates, Thresholds For Phenylbutazone And Pre-Race Examinations: A Preliminary Report”
324. Hot Springs, Arkansas, March 17th, 2011. The McKinsey Report: 20 Years Later. Presentation to the National Horsemen's Benevolent and Protective Association Winter Meeting.
325. Seattle Washington. Thomas **Tobin** To Race or not to Race on Lasix: The Ethical Dilemma: Presentation to the National Horsemen's Benevolent and Protective Association Summer Meeting, Seattle, Washington, Friday, July 22nd, 20211.
326. Racing Medication and Testing Consortium/ Association of Racing Commissioners International Medication Advisory Committee Meeting, Baltimore, Maryland, January 9th, 2012.
327. Fort Lauderdale, Florida, Lasix Revisited: The American Horsemen’s Story:National Horsemen's Benevolent and Protective Association Winter Meeting Saturday, January 14, 2012.
328. Summer meeting, June 28th , National Horsemen’s Benevolent and Protective Association [NHBPA], Des Moines, Iowa.
329. 1/ Presentation “Furosemide: lack of effect on numbers of racing starts.” Kimberly Brewer and **Thomas Tobin**.
330. Buenos Aires Presentations for the Organización Sudamericana de Fomento del Sangre Pura de Carrera Buenos Airesat San Isidro Racetrack, Buenos Aires, Argentina Buenos Aires Monday July 2nd, 2012:
331. ,1.1/ “Trace level identifications of human therapeutic substances transferring from human to horses; an overview of the current situation” **Thomas Tobin** and Kimberly Brewer
332. 1.2/Screening methods/ELISA Tests: **Thomas Tobin** and Kimberly Brewer
333. Buenos Aires 1.3/ Thresholds for therapeutic medications: **Thomas Tobin** and Kimberly Brewer
334. Buenos Aires 1.4/ Environmental substances/pollution: **Thomas Tobin** and Kimberly Brewer
335. Buenos Aires 1.5/ Factors which affect withdrawal times of therapeutic drugs used in sports horses: **Thomas Tobin** and Kimberly Brewer
336. Buenos Aires Tuesday, July3nd, 2012 Buenos Aires **Thomas Tobin** and Kimberly Brewer
337. Buenos Aires 2.1/ Troublesome drugs + those which most usually give positive results. which are they, and why do they test positive? **Thomas Tobin** and Kimberly Brewer
338. Buenos Aires 2.2: Avoiding unnecessary positive results. **Thomas Tobin** and Kimberly Brewer
339. Buenos Aires 2.3: Clarifying definitions, so that veterinarians who work either at private practice or doping control laboratories may share the same meanings when it comes to specific language. **Thomas Tobin** and Kimberly Brewer
340. Buenos Aires 2.4: / Animal welfare + increase of its importance at a world-wide basis + relationship with thoroughbreds: **Thomas Tobin** and Kimberly Brewer
341. Soring KH, Brewer K, Kind AJ and Tobin (2012) FOREIGN SUBSTANCES REPORTED IN IOWA RACING, 2001 – 2011: A REVIEW AND ANALYSIS, Presented at the 19th International Conference of Racing Analysts and Veterinarians, Philadelphia Pennsylvania, September 15-22, 2012. [UK #400, Ag. Experiment Station Number, 12-14-098]
342. Kind AJ, Soring K, JD, Brewer K, Eisenberg, R., Hughes CG, Hartmann-Fishbach, P and **Tobin T** (2012)Cathinone and Related “Bath Salt” Substances – Detection in Equine Urine and Potential Sources, Presented at the 19th International Conference of Racing Analysts and Veterinarians, University of Pennsylvania, Philadelphia, Pennsylvania, September 2012. [UK401, Ag. Experiment Station Number, 12-14-099]
343. Gutierrez J, Eisenberg R, Ferguson EM, HughesC and **Tobin T** (2012) “Synthesis of myo-inositol trispyrophosphate (ITPP) for use as an analytical standard” Presented at the 19th International Conference of Racing Analysts and Veterinarians, Philadelphia, Pennsylvania, September 15-22, 2012. [UK 398 Ag. Experiment Station Number, 12-14-100] .
344. Kudrimoti S, Gutierrez J, Eisenberg R, Ferguson EM, Hughes C and **Tobin T** (2012) Synthesis of 3-Hydroxy-mepivacaine-*d*3 as an Internal Standard for Equine Medication Regulation Presented at the 19th International Conference of Racing Analysts and Veterinarians, University of Pennsylvania, Philadelphia, Pennsylvania, September 2012. p128-135. [UK 402 Ag. Experiment Station Number, 12-14-101]
345. Chairperson, Session on the “Detection of New Drugs” 19th International Conference of Racing Analysts and Veterinarians, University of Pennsylvania, Philadelphia, Pennsylvania, September 2012
346. Scientific Conference, Pittsburgh, Pennsylvania, Friday, September 28th 2012 with Dubai Veterinarians representing Sheik Mohammed bin Rashid al Maktoum.
347. Baltimore Racing Medication and Testing Consortium Scientific Advisory Committee Meeting, Baltimore, Maryland, Monday, October 22 and Tuesday October 23rd, Saturday, February 23, 2013
348. Scientific Conference, Dubai UAE, February 14th, 2013, with Dubai Veterinarians representing Sheik Mohammed bin Rashid al Maktoum.
349. Scientific Conference, Dubai UAE, Wednesday, July 3rd to Monday, July 8th and three visits to the Dubai MER Laboratory.
350. National HBPA Summer 2013 Meeting, Mystic Lake Casino, Shakopee, Wisconsin, presentation entitled Clenbuterol: Unusual Aspects of its Urinary Detection/Excretion.
351. Denver, Colorado, September 17th, attendance and brief presentation to the Racing Medication and Testing Consortium,[RMTC], Denver, Colorado, meeting attended on behalf of the National HBPA.
352. December 1-15th 2013: Travel to Dubai, United Arab Emirates and presentation to Dubai authorities on aspects of Equine physiological optimization and medication regulation.
353. National HBPA Winter Meeting, Pasadena, California, Saturday January 25th, **Thomas Tobin**, Kimberly Brewer and Charlie Hughes “Scientifically validated regulatory thresholds for use in racing regulation” Presentations and associated panel discussion.
354. Kentucky Association of Equine Practitioners meeting January 28th, 2014 “Scientifically defined thresholds/ withdrawal time guidelines for racing regulation” by **Thomas Tobin**, Kimberly Brewer and Charlie G. Hughes Red Mile, Lexington, KY, 40511, Presentations and associated panel discussion.
355. Darley Flying Start Student Seminar: “Furosemide and EIPH: Efficacy and Controversy: The American Horsemen’s Story”: Friday, January 31st, 2014, at the Maxwell H. Gluck Equine Research Center
356. Third Annual Univ. of Kentucky Equine Showcase, February 5th, **Thomas Tobin**, Kimberly Brewer and Charlie Hughes “Where did that positive come from? Let me count the ways” Four Points Sheraton, 1938 Stanton Way, Lexington, KY 40511. Presentations and associated panel discussion
357. 5) Racing Medication and Testing Consortium Board Meeting, Gulfstream Park, Florida, March 17th, 2014, attendance as alternate National Horsemen’s Benevolent and Protective Association and brief presentation to the Racing Medication and Testing Consortium Board meeting attended on behalf of the National HBPA.
358. National HBPA Summer Meeting, Oklahoma City, Saturday, August 16th, 2014 , **Thomas Tobin**, Kimberly Brewer and Charlie Hughes “Cobalt, Lasix, Thresholds and Withdrawal Times; An Overview” Presentation to Summer Meeting audience as part of a panel discussion on Cobalt and Lasix and associated panel discussion.
359. S. Kudrimoti1, R. Eisenberg2, G. A. Maylin3, Charlie Hughes1, and **T. Tobin**1\*  Synthesis and characterization of 4-hydroxyxylazine and 4-hydroxyxylazine-d6 standards for use in xylazine regulation in competition horses:  Presented at the 20th International Conference of Racing Analysts and Veterinarians, Sugar Beach, Mauritius, September 2014.
360. R. Eisenberg1, S. Kudrimoti2, C. G. Hughes2, G. A. Maylin3, and **T. Tobin**2\* Dihydromethylprednisone, an isomeric metabolite of methylprednisolone: synthesis of an analytical standard. Presented at the 20th International Conference of Racing Analysts and Veterinarians, Sugar Beach, Mauritius, September 2014.
361. S. Kudrimoti1, R. Eisenberg2, G. A. Maylin3, C.G. Hughes1and **T. Tobin**1\* 20-Dihydroprednisone: Synthesis of an isomeric equine metabolite of prednisolone for use as an analytical standard;  Presented at the 20th International Conference of Racing Analysts and Veterinarians, Sugar beach, Mauritius, September 2014.
362. K. Brewer1, C. R. Harden2, C.G. Hughes3 and **T. Tobin**3 “Shipping-in,” a risk factor associated with fatal musculoskeletal racing injuries: Presented at the 20th International Conference of Racing Analysts and Veterinarians, Sugar Beach, Mauritius, September 2014.
363. A.M. Briceño1\*, A.M. Sanchez1, R.H. Galley2, K. Brewer3, C. Hughes4, **T. Tobin**4 Increased Incidence of Sudden Death Associated with Exercise Induced Pulmonary Hemorrhage (EIPH) in Horses Racing at Higher Altitude in Venezuela:  Presented at the 20th International Conference of Racing Analysts and Veterinarians, Sugar beach, Mauritius, September 2014.
364. Fenger, C. K.a, **Tobin, T**ab, Casey, P. J.c, Roualdes, E.D, Langemeier, J. L.a, and Haines, D.M. Supplementation Improves Earnings, Performance and Recovery in Racing Thoroughbreds Bovine Colostrum Presented at the 20th International Conference of Racing Analysts and Veterinarians, Sugar Beach, Mauritius, September 2014.
365. RMTC Board of Directors Meeting, Canterbury Downs, Oct. 13th 2014: attendance as alternate National Horsemen’s Benevolent and Protective Association and brief presentation to the Racing Medication and Testing Consortium,[RMTC], Minneapolis Minnesota, meeting attended on behalf of the National HBPA.
366. Presentation to Azam Syed, Pharmacy in Charge, Zabeel Palace, Dubai and visits to and presentations to the Marmoom Equine Research Center, Dubai UAE, December 3-14th  2014.
367. National HBPA Winter meeting, Carefree, Arizona, Thursday, February 7th, 2015 **Thomas Tobin**, Kimberly Brewer and Charlie Hughes “Cobalt, Lasix, Thresholds and Withdrawal Times; An Overview” Presentation to HBPA Winter Meeting audience as part of a panel discussion on Cobalt and Lasix and associated panel discussion.
368. Mumbai, India, Royal Western India Turf Club, Mumbai, Feb. 27th, 2015 “Where did that positive come from? Highly sensitive testing: Let me count the ways”, **Thomas Tobin**, Kimberly Brewer, Kent Stirling and Charlie Hughes. Travel arrangements were made for in person presentation at RWITC seminar but visa problems restricted presentation to Skype video format Feb. 27th, 2015.
369. Presentation to Azam Syed, Pharmacy in Charge, Zabeel Palace, Dubai and visits and presentations to the Marmoom Equine Research Center, Dubai UAE, March 26th, 2015.
370. Association of Racing Commissioners International, Scientific Advisory Committee Meeting. Regulatory thresholds for Cobalt and Gamma Amino Butyric Acid [GABA] Committee meeting, **T. Tobin** and ARCI SAC Committee Members, Tuesday April 21st presentation on GABA to ARCI 10 AM Thursday April 25th, 2015, Tampa, Florida.
371. Northwest Naturopathic Physicians Convention, Seattle Washington, May 2-3rd, 21015  
     Patrick J. Casey, DM Gerbracht, ZJ Champion, RL Decker, R., Waling and **T. Tobin**; “The Role of Chaperone Proteins in Ageing and Onset of Disease in Modern Medicine”, Presentation and Publication.
372. Presentation to the Union Nacional de Asociaciones Ganaderas Colombianas- UNAGA, Bogota Colombia “ T Tobin: Where did that positive come from: Highly sensitive testing; Let me count the ways” Wednesday July 15th, 2015.
373. National HBPA Summer Meeting, Denver, Colorado, Saturday, August 8th, 2015: Glenys K. Noble, Kimberly Brewer, MaryAnn O’Connell, K. H. Stirling, A. Morales Briceno, J. Machin, and C. Hughes. **T. Tobin**: “Revisiting the Racing Medication and Testing Consortium [RMTC] Xylazine Guidelines, with Australian Assistance; Presentation to the Summer 2015 Medication Forum of the National Horsemen’s Benevolent and Protective Association Meeting, Denver, Colorado, Saturday, August 8th, 2015.
374. K. Brewer, J. Machin, K. Stirling, Abelardo Morales Briceno, C. Hughes and **T. Tobin**. Canadian Environmental Methamphetamines Identifications Linked to a Horse Trailer: Presentation to the Summer 2015 Medication Forum of the National Horsemen’s Benevolent and Protective Association Meeting, Denver, Colorado, Saturday, August 8th, 2015.
375. A. Morales, A. Méndez, M. Armas, C. Guarino, M. Moya, E. Suniaga, K. Brewer, **T. Tobin**. 3.2 Título del Trabajo: Efecto de la terapéutica combinada Levotiroxina-Clembuterol sobre la arteria aorta en ratones Balb/c. 3.3 Nombre del Congreso (entidad patrocinante): 76 Aniversario del Instituto Nacional de Higiene Rafael Rangel y 37 Jornadas Científicas 3.4 Fecha: Noviembre, 2014. 3.5 Ciudad y País: Caracas, Venezuela.
376. A. Morales, A. Mendez, M. Armas, C. Guarino, M. Moya, E. Suniaga, K. Brewer, **T. Tobin**. 4.2 Título del Trabajo: Efecto de la levotiroxina-clembuterol sobre la arteria aorta en ratas Sprague Dawley. 4.3 Nombre del Congreso (entidad patrocinante): XXIII Jornadas Científicas Dr. Francisco de Venanzi, Instituto de Medicina Experimental Dr. José Gregorio Hernández. 4.4 Fecha: Noviembre, 2014. 4.5 Ciudad y País: Caracas, Venezuela.
377. Presentation to Azam Syed, Pharmacy in Charge, Zabeel Palace, Dubai and visits and presentations to the Marmoom Equine Research Center, Dubai UAE, December 5th 2015.
378. **T. Tobin**, Invited presentation to the Open Meeting of the International Group of Specialist Racing Veterinarians [IGSRV] Sha Tin, Hong Kong, December 14th, 2015, on the matter of *“Managing a rash of ‘positives’ that result from a known source(s) of contamination through no fault of the trainer/owner? Is there a way to pragmatically manage positives that result from inadvertent contamination that could reasonably be expected not to have an influence on a horses’ performance?”* Abbreviated presentation because of IGSRV concerns that the Royal Western India Turf Club [RWITC] hearing on such a matter had not finalized.
379. **Tobin T** Invited presentation to the National Horsemen’s Benevolent and Protective Association, Winter Convention, Clearwater, Florida, “Inconsequential Trace Level Identifications of Environmental Substances” K. H. Stirling, K. Brewer, MaryAnn O’Connell, A. Morales Briceno, J. Machin and **T. Tobin**. February 3-6-7th, 2016.
380. **Tobin T** and Morales A, DETECCION DE SUBSTANCIAS PROHIBIDAS Y SUS CONSECUENCIAS PARA INDUSTRIA HIPICA A.Morales1, A. Méndez1, K. Brewer2, C. Hughes3, **T. Tobin**, Congreso de Veterinaria y Ciencia y Tecnología de los Alimentos Cordoba, Spain, February 12th, 2016
381. CATHINONE: A Human Recreational Substance Identified in Post-Race Urines Presentation to Azam Syed, Pharmacy in Charge, Zabeel Palace, Dubai and The A Team, Jake Machin, Kimberly Brewer, Sucheta Kudrimoti, Kent H. Stirling, Rodney Eisenberg and **Thomas Tobin** Marmoom Equine Research Center, Marmoom, Dubai UAE, Wednesday, April 6th 2016.
382. “EQUINE MEDICATION TESTING: 100 YEAR AND STILL LEARNING” **Thomas Tobin**, ShivaKumar Gudlawar, Jake Machin, Kimberly Brewer, Sucheta Kudrimoti,, Rodney Eisenberg and Kent H. Stirling The Maxwell H. Gluck Equine Research Center, University of Kentucky, The Marmoom Equine Research Center, Marmoom, Dubai, UAE, The Florida Horsemen’s Benevolent and Protective Association; Presented to The Anti-Doping Laboratory Qatar [ADLQ] Annual Meeting entitled “ANTI-DOPING IN HUMANS AND ANIMALS: PARALLELS AND DIVERGENCES” in conjunction with the World Anti-Doping Association [WADA] at the Doha Marriott Hotel, Qatar, Wednesday, June 1th 2016.
383. INVITED CHAIR, SYMPOSIUM CLOSING SESSION PANEL DISCUSSION, The Anti-Doping Laboratory Qatar [ADLQ] Annual Meeting in conjunction with the World Anti-Doping Association [WADA] entitled “ANTI-DOPING IN HUMANS AND ANIMALS: PARALLELS AND DIVERGENCES” at the Doha Marriott Hotel, Qatar, Wednesday, June 1st, 2016.
384. Jake Machin, Kimberly Brewer, **Thomas Tobin**, “THE MATTER OF DURING OR POST COLLECTION CONTAMINATION: AN OVERVIEW OF SOME CASES” National Horsemen’s Benevolent and Protective Association, Summer Convention, Vancouver, Canada, July 16th  2016.
385. Kevin Kersh, DVM, DACVS; Scott R. McClure, DVM, PhD, DACVS, DACVSMR; Jake Machin, MS; Levent Dirikolu, PhD; Brad Brown, DVM; Clara Fenger, DVM, PhD, DACVIM; George Maylin, DVM, PhD; Edward Roualdes, PhD; **Thomas Tobin**, MRCVS, PhD, DABT Determining viable withdrawal times for dexamethasone in horses in a racing environment, where self-contamination is likely: Clinical Guidelines for application in a regulatory environment. Presentation at the 21st International Conference of Racing Analysts and Veterinarians, Montevideo, Uruguay, October 15-22nd, 2016.
386. Abelardo Morales Briceño1,, Aniceto Mendez Sanchez1, Kimberly Brewer2,**Thomas Tobin**3 FOREIGN SUBSTANCES IDENTIFIED POST RACE IN THOROUGHBREDS AT LA RINCONADA RACETRACK, CARACAS VENEZUELA, A CLINICAL PATHOLOGICAL AND TOXICOLOGICAL STUDY. Presentation at the 21st International Conference of Racing Analysts and Veterinarians, Montevideo, Uruguay, October 15-22nd, 2016.
387. Abelardo Morales Briceño1,2, Antonio Lamprea Garrido2, Alicia Garcia Hermoso2, Aniceto Mendez Sanchez1, Kimberly Brewer3,**Thomas Tobin**5 EPISTAXIS IN UNMEDICATED EQUINE DURING INTENSE EXERCISE IN ALMONTE-HUELVA-SPAIN. A PRELIMINARY REPORT: Presentation at the 21st International Conference of Racing Analysts and Veterinarians, Montevideo, Uruguay, October 15-22nd, 2016.
388. **Thomas Tobin**\* 1 Jake Machin1,Sucheta Kudrimoti1 and Rodney Eisenberg2 Synthesis and Certification of a Deuterated Internal Standard for Xylazine: Presentation at the 21st International Conference of Racing Analysts and Veterinarians, Montevideo, Uruguay, October 15-22nd, 2016.
389. **Thomas Tobin**, Presentation to a Joint Committee of the Louisiana Veterinary Medical Association Equine Group and the Louisiana State Racing Commission, “Optimal approaches to Regulation of Therapeutic Medications, Endogenous, Dietary and Environmental Substances” Sunday November 20th, 2016, Fairgrounds Racetrack, New Orleans, Louisiana.
390. **Thomas Tobin** and colleagues, January 22, 2017: 1:00 p.m. - 5:00 p.m. the TEX CAUTHEN MEMORIAL SEMINAR with Dr. David Horohov, Doug, Kerry & Steve Cauthen, Mr. Hans Albrecht, Mr. Steve Simon, Dr. Simon Curtis, FWCF, Mr. Michael Savoldi, Dr. Pedro De Pedro and Dr. **Thomas Tobin**, The Maxwell H. Gluck Equine Research Center, University of Kentucky, Lexington, KY 40546-0099. The entire seminar was videotaped and made available on The Maxwell H. Gluck Equine Research Center web site and republished by the American Farriers Association Communications Committee on their internet newsletter / eblast.
391. **Thomas Tobin**, Friday February 3rd, 2107, Seminar and round- table discussion on “Hair testing as a regulatory procedure in racing horses”, invited to participate by the Oklahoma Horsemen’s Benevolent and Protective Association, industry wide panel organized by the Oklahoma Quarter Horse Racing Association, Heritage Place, Oklahoma City, Oklahoma.
392. **Thomas Tobin**: Educational presentation on behalf of the New Jersey Harness Horsemen’s Association on the matter of appropriate blood testing sampling procedures for the regulatory control of Furosemide as outlined in the “Furosemide in the Horse: its actions effects and regulatory control” A Testing Integrity Program Seminar held at The New Orleans Hilton Riverside, March 1, 1998. Wind Publications, PO Box 54248, Lexington Kentucky, 40524 (wind@wind.org)
393. **Thomas Tobin**, Jake Machin, Kimberly Brewer, Clara Fenger and **Thomas Tobin**. EQUINE HAIR TESTING WITH REFERENCE TO POST-RACE AND OUT OF COMPETITION TESTING: AN OVERVIEW; Presentation to the National Horsemen’s Benevolent and Protective Association Annual Convention, Las Vegas, Nevada, March 8-10th, 2017.
394. Presentations to Mr. Azam Syed, Pharmacy in Charge, Zabeel Palace, Dubai, at The Buhoot Equine Research Center, Marmoon, Dubai, UAE, March 22-April 5th, 2017, on Environmental Substances in Racing Chemistry and attendance at the 2017 Dubai World Cup as a guest of His Highness Sheik Mohammed bin Rashid al Maktoum, Vice President and Prime Minister of the United Arab Emirates and Emir of Dubai.
395. Educational presentation on behalf of Charles Town HBPA, May 12th 2017, The Charles Town Naproxen Identifications: Regional Historic Regulatory Thresholds and an Interim Screening Limit of Detection, Submitted by The National Horsemen’s Benevolent and Protective Association, Lexington, Kentucky and Ms. Maria Catignani, The Charles Town Horsemen’s Benevolent and Protective Association, Charles Town, West Virginia, and Mr. Jake Machin, BSc, and **Thomas Tobin**, MVB, MRCVS, PhD, Rm128c, The Maxwell H. Gluck Equine Research Center, 1400 Nicholasville Rd, University of Kentucky, Lexington, Kentucky 40546-0099, and Dr. Kimberly Brewer DVM, MSc, 1711 Lakefield North Court, Wellington, Florida 33414.
396. Jake Machin, Kimberly Brewer, Kent H. Stirling and **Thomas Tobin**, Equine Drug Testing: Dealing with Caffeine and Theophylline: Caffeine a Classic Environmental Substance; AGROEXPO, Bogota, Colombia, Invited presentation on behalf of ASOARABES UNAGA on environmental substance regulation in performance horses, July 19th at AGROEXPO 2017, Bogota, Colombia.
397. Jake Machin, Kimberly Brewer, Kent H. Stirling and **Thomas Tobin**, Equine Drug Testing: Dealing with Caffeine and Theophylline, Caffeine a Classic Environmental Substance; Fedequinas Headquarters, Bogota, Colombia, Invited presentation on behalf of ASOARABES UNAGA on medication regulation in performance horses, July 18th, 2017, at Fedequinas Headquarters, Bogota, Colombia.
398. Jake Machin, Kimberly Brewer, Maria Catignani, MaryAnn O’Connell and **Thomas Tobin** “GLUCK EQUINE RESEARCH PROGRAM ACTIVITY, 2016-DATE, AN OVERVIEW OF SOME ENVIRONMENTAL SUBSTANCE CASES” presented to the National Horsemen’s Benevolent and Protective Association Executive Committee Meeting, Louisville, Louisville, Kentucky, June 30th, 2017.
399. K. H. Stirling, Clara Fenger, Prof. Utpal S. Tatu, K. Brewer, MaryAnn O’Connell, A. Morales Briceno, J. Machin and **T. Tobin**’ “Inconsequential Trace Level Identifications of “Environmental” Substances” Presentation on September 26th, 2017, to the Ohio State Racing Commission, Columbus, Ohio.
400. **Tobin T**: Presentation to the Court for Arbitration of Sport, Lausanne, Switzerland, November 10th, 2017, on the matter of “Trace Level Identifications of Urinary Ractopamine in Show Horses” on behalf of Cargill Inc.
401. **Thomas Tobin** and colleagues, January 21, 2018: 9:30 a.m. - 5:00 p.m. the SECOND TEX CAUTHEN MEMORIAL SEMINAR with Dr. David Horohov, Doug, Kerry & Steve Cauthen, Mr. Hans Albrecht, Dr. Ric Redden, Dr. Raul Bras, Mr. Michael Savoldi Mr. Steve Simon, Dr. Pedro De Pedro and Dr. Thomas **Tobin, T**he Maxwell H. Gluck Equine Research Center, University of Kentucky, Lexington, KY 40546-0099. The entire seminar was videotaped and made available on The Maxwell H. Gluck Equine Research Center web site and republished by the American Farriers Association Communications Committee on their internet newsletter / eblast.
402. W.C. Duer1, J. Machin2, G. Maylin3, C.K. Fenger4, and **T. Tobin**2\* APPLICATION OF ROBUST REGRESSION ON ORDER STATISTICS AND DISTRIBUTION FREE STATISTICS IN THRESHOLD DETERMINATIONS FOR THERAPEUTIC MEDICATIONS, USING METHYLPREDNISOLONE AS AN EXAMPLE: Presentation to the 22nd International Conference of Racing Analysts and Veterinarians, Dubai, United Arab Emirates, Monday, March 5th, 2018.
403. J. Machin1, G.A. Maylin2, C.K. Fenger3, R. Hunt4, K.E. Bladon3, O. Sacoulos3, & T.Tobin1\*: PILOT PHARMACOKINETIC STUDIES USING A HIGHEST NO EFFECT DOSE (HNED) AND A FULL CLINICAL DOSE OF MEPIVACAINE IN THOROUGHBRED HORSES; Presentation to the 22nd International Conference of Racing Analysts and Veterinarians, Dubai, United Arab Emirates, Friday March 9th, 2018.
404. Jake Machin, Maria Catignanai, Kimberly Brewer, Clara A Fenger, G A Maylin and **Thomas Tobin**. “Walls of Stalls” Substances; ARCI Substances in Charles Town Ship-In Stalls; Presentation for The Kent Stirling Memorial Scientific Panel: Environmental Transfer, Cause for Concern in Racehorses: Inadvertent Exposure to Recreational and Prescription Medications, March 16th, 2108, National Horsemen’s Benevolent and Protective Association Convention New Orleans, Louisiana.
405. Jake Machin, Maria Catignanai, Kimberly Brewer, Clara A Fenger, G A Maylin and **Thomas Tobin**. “NAPROXEN, A MAJOR EQUINE ENVIRONMENTAL SUBSTANCE: Presentation for The Kent Stirling Memorial Scientific Panel: Environmental Transfer, Cause for Concern in Racehorses: Inadvertent Exposure to Recreational and Prescription Medications, March 16th, 2108, National Horsemen’s Benevolent and Protective Association Convention New Orleans, Louisiana.
406. Jake Machin, Catignanai, Kimberly Brewer, Fenger, Clara A: Tramadol: A Human Prescription Med Occasionally Identified in Post-Race Urines”, Presentation for The Kent Stirling Memorial Scientific Panel: Environmental Transfer, Cause For Concern In Racehorses: Inadvertent Exposure to Recreational and Prescription Medications, March 16th, 2108, National Horsemen’s Benevolent and Protective Association Convention New Orleans, Louisiana.
407. **Tobin T** and Shults, T “Understanding the Legal Framework and Requirements of “Forensic” Drug Testing: Due-Process, Legal Defensibility, and Risk-Management in Human and Equine Testing Theodore F. Shults, JD, MS, Chairman, American Association of Medical Review Officers and **Thomas Tobin**, MVB, PhD, The Maxwell H. Gluck Equine Research Center, University of Kentucky, THE 33RD ANNUAL NATIONAL CONFERENCE ON EQUINE LAW, WEDNESDAY MAY 2ND  2018, 1:10 pm, The Keeneland Racecourse Sales Pavilion, Lexington, Kentucky.
408. **Thomas Tobin**, Jake Machin, Kimberly Brewer and Ted Shults, WHERE DID THIS POSITIVE COME FROM? “MOLECULAR MISADVENTURES”, LET US COUNT THE WAYS! The Maxwell H. Gluck Equine Research Center, University of Kentucky, THE 33RD ANNUAL NATIONAL CONFERENCE ON EQUINE LAW, WEDNESDAY MAY 2ND The Keeneland Racecourse Sales Pavilion, Lexington, Kentucky
409. Jacob Machin1, Sucheta Kudrimoti1, Rod Eisenberg2, Clara Fenger3, Petra Hartmann4, George Maylin5, **Thomas Tobin**1\* and Theodore Shults6 Synthesis, Characterization and Certification of Barbarin, a Possible Botanical Source of Aminorex Identifications. Presentation and publication, Society of Forensic Toxicology Annual Meeting, Minneapolis, MN, October 10-12, 2018.
410. Presentation submitted at request of National Horsemen’s Benevolent and Protective Association. **Tobin, T** “Lasix PROTECTS the Lungs of the Racing Horse and in so doing PROTECTS the Horse and also the Jockey: An Analysis and Opinions”. Expert opinion and supporting documents and Tobin professional vitae submitted Wednesday June 20th, 2018, to Chairman Latta and Ranking Member Schakowsky Energy and Commerce Subcommittee on Digital Commerce and Consumer Protection for consideration at the June 22, 2018, hearing on H.R.2651, the Horseracing Integrity Act of 2017.
411. V. Morales, K. Yvorchuk, **T. Tobin**, A. Conan, P. De Pedro The prevalence of Exercise-Induced Pulmonary Hemorrhage in high goal polo horses. National Veterinary Scholars Symposium, August 2-5, 2018, Texas A&M, College Station Texas.
412. Presentation at invitation of the Washington Horsemen’s Benevolent and Protective Association to the Washington Horse Racing Stewards concerning two unusual time and place linked Xylazine identifications in two otherwise unrelated horses, Friday August 30th, 2018, Emerald Downs, Washington.
413. Organizing and scheduled presentations on “Environmental Substances in Racing Regulation”, afternoon session at 5th Annual Meeting and Symposium of the North American Association of Racetrack Veterinarians [NAARV] Griffin Gate, Lexington, Kentucky, November 5-6th, 2018, set for afternoon of November 6th.
414. Morales A. Méndez-Sánchez A, Brewer K, **Thomas Tobin**. Título del Trabajo: Estudio retrospectivo de la casuística de muerte súbita en Almonte-Huelva, Andalucía, España. Nombre del Congreso (entidad patrocinante): Proceeding **XL Jornadas Científicas “Dra. Rosa Alba Salas Mora”,** a celebrarse en las conmemoraciones del**LXXIX Aniversario del INH“RR” y el XLI Aniversario de la Sociedad Científica del INH“RR”.**Fecha: Octubre, 2017. Ciudad y País: Caracas, Venezuela.
415. Morales A, Mendez A, Perez J, Gul W, Brewer K, **Tobin T**. Título del Trabajo: A multicentric retrospective study of sudden death non medicated horses 1986-2017  Nombre del Congreso (entidad patrocinante): World Toxicologic Pathology Congress, Sao Paulo, April 2018 Fecha: April 2018 Ciudad y País: Sao Paulo, Brasil.
416. **Thomas Tobin**, Jake Machin, Kimberly Brewer, Clara Fenger and Ted Shults. TRACE LEVELS OF ENVIRONMENTAL SUBSTANCES IN RACING SAMPLES: WHAT SHOWS UP AND WHY 5th Annual Meeting and Symposium of the North American Association of Racetrack Veterinarians [NAARV] Griffin Gate, Lexington, Kentucky, November 5-6th, 2018, November 6th.
417. Presentations to the Ontario Association of Equine Veterinarians, February 13th, 2019, Guelph Ontario, Canada. Presentation # 1/ How drug testing is done, and especially how sensitive and specific it has become. 50 minutes, 10 minutes of questions. Honoring Dr. Bill Oliver, DVM. Guelph and Dr. Werner Kalow, MD, U of Toronto.
418. Presentations to the Ontario Association of Equine VeterinarIans, February 13th, 2019, Guelph Ontario, Canada, Presentation # 2/ How thresholds are set for therapeutics, and at this point we will discuss the Canadian Lasix threshold matter, and how it is handled in the US. 50 minutes, 10 minutes of questions. Dedicated to Dr. Bob Jack, DVM Guelph, and Dr. Mike Weber, DVM, Guelph.
419. Presentations to the Ontario Association of Equine Veterinarians, February 13th, 2019, Guelph Ontario, Canada, Presentation # 3/ Why testing is differs between authorities, and the matter of highly sensitive testing readily detecting traces of materials inadvertently transferring to Horses, and how to handle this (Contributions of Dr. George Maylin, DVM, Guelph. ).
420. George Maylin, Clara Fenger, Jake Machin, Kimberly Brewer, J.D. Green, Ted Shults and **Thomas Tobin**: Yellow Rocket: A Kentucky Pasture Plant Yielding Aminorex (Pemoline??). Presentation at the Kent Stirling Memorial Lecture National Horsemen’s Benevolent and Protective Association Convention, Tampa Bay Downs and Clearwater Beach, Fla. 9:00 AM, Friday March 15th, 2019.

### Tobin T, Attendance at the April 3rd, 2019, meeting of the Association of Racing Commissioners International Scientific Advisory Group meeting at the ARCI 2019 Conference on Animal Welfare and Racing Integrity – Arcadia, CA., USA. And attendance at the  Drug Testing Standards and Practices Committee Meeting: Presentations and discussions on Lasix, Clenbuterol, Betamethasone and the matter of separate medication rules for Standardbred racing.

### Tobin T Invited presentation on environmental substances, specifically trace level detections of human prescription medications and recreational substances entitled “Environmental substances: “molecular misadventure”, let me count the ways!” to ROAP and the Delaware Thoroughbred Racing Commission Conference, April 15–16th, 2019 at the Delaware Park Racetrack at the Veranda Room, White Clay Creek Country Club Newark Delaware.

### Jacob Machin3 George Maylin1, Clara Fenger2, and Thomas Tobin3\* Plasma Pharmacokinetics of Betamethasone Following Intra-Articular Administration of 15mg of BetaVet® into Each Stifle Joint: A Review and Analysis *Presentation to Department of Toxicology and Cancer* Biology Orientation with the Integrated Biomedical Sciences Program, August 16th, 2019, and also *at the Departmental Retreat, August 23rd, 2019.*

### Thomas Tobin, invited speaker, “DICLAZURIL / BENZENEACETONITRILE AGENTS: SAFE AND HIGHLY SPECIFIC ANTI-APICOMPLEXAN MEDICATIONS” Presented at the Infectious Diseases Research Day, Oct 17th, Day, Oct 17th 2019 Room 236 Lee T. Todd, Jr. Building, 789 South Limestone Lexington, University of Kentucky.

### Thomas Tobin, invited presentation, RECENT RESEARCH PAPERS (KNYCH / BAYLY) CONCERNING 24 HOUR ADMINISTRATION OF FUROSEMIDE presented Wednesday, October 23rd, 2019,  Presented at the National HBPA Executive Meeting, Kentucky Training Center, Lexington, KY

### Clara Fenger, DVM, PhD, DACVIM, Kim Brewer, DVM, Martina Neidhart, DVM DCV, CVA, Thomas Tobin, MCVRS, PhD, DABT “ Feed, Forage and Bedding: What is a positive now” presentation at the North American Association of Racetrack Veterinarians 6th Annual Conference, November 3rd, 2019, Pasadena, California.

### Thomas Tobin, Invited speaker, The Lexington Rotary Club, 6:30 PM March 25th, 2000, 30 minute presentation on “Half a Century of Equine Medication Research”, including The Maxwell H. Gluck Equine Research Center at the College of Agriculture Food and the Environment, University of Kentucky. RESCHEDULED BECAUSE OF COVID.

### Thomas Tobin, invited presentation, “Analysis of the Hinchcliff and related contributions on furosemide” Presented Thursday, July 30th, 2020, Presented at the National HBPA Executive Meeting, Kentucky Training Center, Lexington, KY

### Thomas Tobin, October 8th, 2020: [https://youtu.be/Vc5-fcg1uPQ](https://nam04.safelinks.protection.outlook.com/?url=https%3A%2F%2Fyoutu.be%2FVc5-fcg1uPQ&data=02%7C01%7CThomas.Tobin%40uky.edu%7Cf6b1dbaca42e4dec9d5208d86c6e454d%7C2b30530b69b64457b818481cb53d42ae%7C0%7C0%7C637378568146805143&sdata=zfa%2BNUUnXBfT1TGYtTUT3ZoXRdW4DrOEAye4x8sQ%2FIA%3D&reserved=0) Video presentation, “An educational presentation about Zilpaterol to the Equine Community” sponsored by Glanbia, Ireland, Purcellsinch Business Park, IDA Ireland, Dublin Rd, Purcellsinch, Kilkenny, R95 E70V, presented by Gain Equine Nutrition to the English Equine Community and, with French subtitles, to the French Equine Community. [https://youtu.be/Vc5-fcg1uPQ](https://nam04.safelinks.protection.outlook.com/?url=https%3A%2F%2Fyoutu.be%2FVc5-fcg1uPQ&data=02%7C01%7CThomas.Tobin%40uky.edu%7Cf6b1dbaca42e4dec9d5208d86c6e454d%7C2b30530b69b64457b818481cb53d42ae%7C0%7C0%7C637378568146805143&sdata=zfa%2BNUUnXBfT1TGYtTUT3ZoXRdW4DrOEAye4x8sQ%2FIA%3D&reserved=0). for the French speaking equine feedstuff market.

### Thomas Tobin, 7 PM, Tuesday March 9th, 2021, *Equine Drug Testing: Now a Million to a Billion Times More Sensitive than When I Entered this Field”* Zoom meeting: Tuesday, 2 CE Hours RACE-approved!  Sponsored by [metaVet  and the North American Association of Racing Veterinarians, NAARV](https://nam04.safelinks.protection.outlook.com/?url=https%3A%2F%2Fmailer1.zohoinsights.com%2Focgeturl%2F2d6f.327230a%3Fl%3D394d4a23-7ae8-11eb-8152-52540045df9e%26m%3D38fb5990-7ae8-11eb-ae9d-5254005f6e3c%26h%3D4f9c6f69cbf51114863d4144cd02d41fe5bdc896bd500ad1c6fdc82b73517238&data=04%7C01%7CThomas.Tobin%40uky.edu%7C6846bbf779e746c248b308d8dd0c2037%7C2b30530b69b64457b818481cb53d42ae%7C0%7C1%7C637502391452945607%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000&sdata=ErAMnPNB36ZmN9GGBbjoVeiKDPLT5wZBDVx9LgeaVAc%3D&reserved=0).

### Thomas Tobin, *ENVIRONMENTAL SUBSTANCE PLUS ENTHUSIASTIC ANALYST, 🡪 REGULATORY CONCERNS ??” Presentation to the 2021 National Horsemen’s Benevolent and Protective Association Expanded Executive Committee Meeting, Hyatt Regency Hotel, Lexington, KY, April 15th, 2021,*

### Morales Briceño, Abelardo, Méndez Sanchez, Aniceto; Perez-Arévalo, Jose; Brewer, Kimberly, Fenger, Clara, Tobin Thomas: 2021 Una posible condición hereditaria de Hemorragia Pulmonar Inducida por el Ejercicio, colapso y muerte súbita detectada en caballos Pura Sangre Ingles en Venezuela.  Reporte de caso. III Congreso de Veterinaria y Ciencia y Tecnología de los Alimentos 22 June 2021 Facultad Veterinaria, Universidad De Cordoba Av. de Medina Azahara, 3, 14005 Córdoba, Spain.

1. Morales-Briceño A1, Méndez-Sánchez A1,Pérez-Arévalo J1, Guil-Alcala P1, Brewer K2, Fenger C3,  Tobin T4.(2021) Multicenter Case Study of Sudden Death associated with Exercise-Induced Pulmonary Hemorrhage in Endurance Racing Horses (Period 2006-2019).
2. Kimberly Brewer, Clara Fenger and Thomas Tobin (2022) THE HORSE RACING INTEGRITY AND SAFETY AUTHORITY AND RECENT RELEVANT COMMUNICATIONS, MARCH 3rd, 2022, The Kent Stirling Memorial Lecture, National Horsemen’s Benevolent and Protective Association, Hot Springs, Arkansas, March 4th, 2022,
3. Tobin T, Volpato, G., Yousefi Mashouf, N,, Brewer, K UNDERSTANDING THE CAUSATIVE AGENT, PATHOPHYSIOLOGY AND MANAGEMENT OF THE KENTUCKY MARE REPRODUCTIVE LOSS SYNDROME AND RELATED SYNDROMES: Invited video presentation by the International Symposium of Equine Reproduction (ISER) Global Education, June 15th, 2022.<https://uknowledge.uky.edu/cgi/viewcontent.cgi?article=1000&context=gerc_facpres>

### “MUERTE SÚBITA ASOCIADA A HEMORRAGIA PULMONAR INDUCIDA POR EJERCICIO EN CABALLOS DE CARRERAS DE RESISTENCIA, ESTUDIO RETROSPECTIVO (2006-2019).” Autores: Abelardo Morales-Briceño, Kimberly Brewer, Thomas Tobin, fue presentado en la XLIII Jornada Científica “Dr. Raúl Cardona Contreras”, celebrada en nuestra institución en el mes de octubre de 2022, en el marco de la conmemoración del LXXXIV Aniversario del Instituto Nacional de Higiene “Rafael Rangel” y el XLVI Aniversario de la Sociedad Científica y la Sociedad Coral “Enrique Tejera Guevara”

1. T. Tobin, C. Fenger, K. Brewer, D. Jones, M. Catignani, T. Mostollor and A. Morales Briceno (2023) Human Use Substances Transferring to Horses; Irrelevant Plasma Concentrations (IPC) for Gabapentin and Fentanyl*.* Presentation to The Kent Stirling Memorial Scientific Panel, Wednesday, March 8th 9 00 am. 2023. The National HBPA and ARCI Conference 2023 Joint Meeting, New Orleans, Louisiana.
2. Clara Fenger, DVM, PhD, DACVIM, Thomas Tobin, MRCVS, PhD, DABT, Robert Holland, DVM, PhD, Mr. Ron Moquett, 2024; “Establishing “No Effect Thresholds” and the Importance for the Industry” Presentation to The Kent Stirling Memorial Scientific Panel, Friday, July 26th 9:00 am. 2024. The 2024 National Horsemen’s Benevolent and Protective Association Conference, Prairie Meadows Racetrack, Altoona, Iowa.
3. **Thomas Tobin, Gabriel Volpato, Navid Yousefi-Mashouf, Kimberly Brewer “**[Understanding the Causative Agent, Pathophysiology and Management of the Kentucky Mare Reproductive Loss Syndrome and Related Syndromes](http://uknowledge.uky.edu/gerc_facpres/1) Publication: [*Maxwell H. Gluck Equine Research Center Faculty Presentations*](http://uknowledge.uky.edu/gerc_facpres) UKYNOWLEDGE, [Download](https://uknowledge.uky.edu/cgi/viewcontent.cgi?article=1000&context=gerc_facpres)     
   <https://uknowledge.uky.edu/do/search/?q=tobin%20mrls&start=0&context=1674591&facet=>
4. Adamchik, M, Draeger A, Tobin T Taylor YT and Porr S.: (2023) “Pharmacokinetics of CBD Supplementation in Horses: Single Dose vs. Long-Term Feeding." Poster presentation Murray State University. Scholars week, 11/2022  
   [https://digitalcommons.murraystate.edu/postersatthecapitol/2023/Murray/6/](https://nam04.safelinks.protection.outlook.com/?url=https%3A%2F%2Fdigitalcommons.murraystate.edu%2Fpostersatthecapitol%2F2023%2FMurray%2F6%2F&data=05%7C02%7Cttobin%40uky.edu%7C6554976728f14797f42d08dce88ba802%7C2b30530b69b64457b818481cb53d42ae%7C0%7C0%7C638640933747734896%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C0%7C%7C%7C&sdata=3X5K2CY093mWftLazc5B%2BuY9CaMoU01h7PQn3pzguHI%3D&reserved=0)

**PUBLICATIONS / COMMUNICATIONS, including research papers and communications submitted or in final draft: Google scholar citations 6,618, h-index 41, October 2024**

1. Post RL, Kume S, **Tobin T**, Orcutt B, Sen AK: Flexibility of an active centre in (Na++K+)-dependent ATPase. *J Gen Physiol* 54(1) Part 2:306-326, 1969. [Cited by 564](https://scholar.google.com/scholar?cites=1047124096157264005&as_sdt=4000005&sciodt=0,18&hl=en)
2. Sen AK, **Tobin T**, Post RL: A cycle for ouabain inhibition of the (Na++K+)-ATPase. *J Biol Chem* 244:6596-6604, 1969. [Cited by 214](https://scholar.google.com/scholar?cites=1541475028984239551&as_sdt=4000005&sciodt=0,18&hl=en)
3. **Tobin T**, Banerjee SP, Sen AK: Allosteric interactions in the (Na++K+)-ATPase. *Nature* 225:745, 1970. Cited by 18.
4. **Tobin T**, Sen AK: Stability and ligand sensitivity of [3H]-ouabain binding to the (Na++K+)-ATPase. *Biochem Biophys Acta* 198:120-131, 1970. [Cited by 1](https://scholar.google.com/scholar?cites=5751163146515375782&as_sdt=4000005&sciodt=0,18&hl=en)59.
5. Akera T, Hook JB, **Tobin T**, Brody TM: Cardiac glycoside sensitivity of (Na++K+)-activated ATPase in newborn rats. *Res Commun Chem Pathol Pharmacol* 4:599-706, 1972. [Cited by 27](https://scholar.google.com/scholar?cites=12870178171248277626&as_sdt=4000005&sciodt=0,18&hl=en)
6. **Tobin, T**, Baskin SI, Akera T, Brody TM: Nucleotide specificity of the (Na++K+)-dependent adenosine triphosphatase. *Molec Pharmacol* 8:256-263, 1972. [Cited by 19](https://scholar.google.com/scholar?cites=9563017234070271819&as_sdt=4000005&sciodt=0,18&hl=en)
7. **Tobin T**, Brody TM: Rates of dissociation of enzyme-ouabain complexes and K0.5 values in (Na++K+)-adenosine triphosphatase from different species. *Biochem Pharmacol* 21:1553-1560, 1972. [Cited by 117](https://scholar.google.com/scholar?cites=5333384380934074511&as_sdt=4000005&sciodt=0,18&hl=en)
8. **Tobin T**, Henderson R, Sen AK: Species and tissue differences in the rate of dissociation of ouabain from the (Na++K+)-ATPase. *Biochem Biophys Acta* 274:551-555, 1972. [Cited by 67](https://scholar.google.com/scholar?cites=6220642440469319076&as_sdt=4000005&sciodt=0,18&hl=en)
9. Akera T, Baskin SI, **Tobin T**, Brody TM: Ouabain: Temporal relationship between the ionotropic effect and the in vitro binding to and dissociation from (Na++K+)-activated ATPase. *Naunyn-Schmiedeberg's Archiv fur Pharmacol* 277:151-162, 1973. [Cited by 7](https://scholar.google.com/scholar?cites=2475748935617194387&as_sdt=4000005&sciodt=0,18&hl=en)
10. Akera T, Rech RH, Marquis WJ, **Tobin T**, Brody TM: Lack of relationship between brain (Na++K+)-activated adenosine triphosphatase and the development of tolerance to ethanol in rats. *J Pharmacol Exp Ther* 185:594-601, 1973. [Cited by 38](https://scholar.google.com/scholar?cites=1006011582484356941&as_sdt=4000005&sciodt=0,18&hl=en)
11. **Tobin T**, Akera T, Baskin SI, Brody TM: Calcium and sodium and potassium dependent adenosine triphosphatase: Its mechanism of inhibition and identification of the EI-P intermediate. *Mol Pharmacol* 9:336-349, 1973. [Cited by 6](https://scholar.google.com/scholar?cites=4153477754590932911&as_sdt=4000005&sciodt=0,18&hl=en)
12. **Tobin T**, Akera T, Hogg RE, Brody TM: Ouabain binding to sodium- and potassium-dependent adenosine triphosphatase: Inhibition by the b-y-methylene analogue of adenosine triphosphate. *Mol Pharmacol* 9:278-281, 1973. [Cited b 8](https://scholar.google.com/scholar?cites=14791354624007450157&as_sdt=4000005&sciodt=0,18&hl=en)
13. **Tobin T**, Akera T, Ku D, Lu, M: Reversibility of the interaction of strophanthidin bromoacetate with the cardiotonic steroid binding site of sodium- and potassium-dependent adenosine triphosphatase. *Mol Pharmacol* 9:676-685, 1973. [Cited by 11](https://scholar.google.com/scholar?cites=6717663934112861520&as_sdt=4000005&sciodt=0,18&hl=en)
14. **Tobin T**, Dirdjosudjono S, Baskin SI: Pharmacokinetics and distribution of diphenylhydantoin in kittens. *Am J Vet Res* 34:951-954, 1973. [Cited by 10](https://scholar.google.com/scholar?cites=17745478945974024798&as_sdt=4000005&sciodt=0,18&hl=en)
15. Akera T, Baskin SI, **Tobin T**, Brody TM: Cardiac glycosides: Temporal relationship between the inotropic action and binding to and dissociation from Na++K+-activated ATPase in vitro. Recent Advances in Studies on Cardiac Structure and Metabolism, Vol 4, Myocardial Biology (Ed. NS Dhalla), University Park Press, Baltimore, pp 139-147, 1974. [Cited by 4](https://scholar.google.com/scholar?cites=16117858033296489966&as_sdt=4000005&sciodt=0,18&hl=en)
16. Akera T, Baskin SI, **Tobin T**, Brody TM, Manian AA: 7-8-Dihydroxychlorpromazine: (Na++K+)-ATPase inhibition and positive inotropic effect. *Advances in Biochem Psychopharmacol* 9:633-640, 1974.  [Cited by 6](https://scholar.google.com/scholar?cites=1738891140944119217&as_sdt=4000005&sciodt=0,18&hl=en)
17. Akera T, Brody TM, So RH-M, **Tobin T**, Baskin SI: Factors and agents that influence cardiac glycoside Na++K+-ATPase interaction. *Ann NY Acad Sci* 242:617-634, 1974. [Cited by 45](https://scholar.google.com/scholar?cites=14463801980829384959&as_sdt=4000005&sciodt=0,18&hl=en)
18. Akera T, **Tobin T**, Gatti A, Shieh I-S, Brody TM: Effect of potassium on the conformational state of the complex of ouabain with sodium- and potassium-dependent adenosine triphosphatase. *Mol Pharmacol* 10:509-518, 1974. [Cited by 24](https://scholar.google.com/scholar?cites=17238333205693255650&as_sdt=4000005&sciodt=0,18&hl=en)
19. Ku D, Akera T, **Tobin T**, Brody TM: Effects of rubidium on cardiac tissue, Inhibition of Na ++K+-ATPase and stimulation of contractile force. *Res Commun Chem Pathol Pharmacol* 9: 431-440, 1974. [Cited by 15](https://scholar.google.com/scholar?cites=3161140281761764618&as_sdt=4000005&sciodt=0,18&hl=en)
20. **Tobin T**, Akera T, Baskin SI, Brody TM: The mechanism of the Ca++ ion inhibition of sodium-potassium ATPase. Recent Advances in Studies on Cardiac Structure and Metabolism. Vol. 4, Myocardial Biology (Ed. NS Dhalla), University Park Press, Baltimore, pp 139-147, 1974.
21. **Tobin T**, Akera T, Brody TM: Studies on the two phosphoenzyme conformations of Na++K+-ATPase. *Ann NY Acad Sci* 242: 120-132, 1974. [Cited by 17](https://scholar.google.com/scholar?cites=7924090657828913829&as_sdt=4000005&sciodt=0,18&hl=en)
22. **Tobin T**, Akera T, Dworin JZ, Brody TM: Fluoride nephropathy: Lack of direct involvement of renal ATPase. *Canad J Physiol Pharmacol* 52:489-495, 1974.
23. **Tobin T**, Akera T, Han CS, Brody TM: Lithium and rubidium interactions with sodium- and potassium-dependent adenosine triphosphatase: A molecular basis for the pharmacological actions of these ions. *Mol Pharmacol* 10:501-508, 1974. [Cited by 61](https://scholar.google.com/scholar?cites=16695099516045612350&as_sdt=4000005&sciodt=0,18&hl=en)
24. **Tobin T**, Akera T, Lee CY, Brody TM: Ouabain binding to (Na++K+) ATPase: Effects of nucleotide analogues and ethacrynic acid. *Biochem Biophys Acta* 354:102-117, 1974. [Cited by 24](https://scholar.google.com/scholar?cites=15243865913726115478&as_sdt=4000005&sciodt=0,18&hl=en)
25. **Tobin T**, Tai Cy, Arnett S: Recovery of procaine from biological fluids. *Res Commun Chem Path Pharmacol*, 11(2):187-194, 1975. [Cited by 7](https://scholar.google.com/scholar?cites=6605072534438375810&as_sdt=4000005&sciodt=0,18&hl=en)
26. Abramson HN, Huang CL, Wu TF, **Tobin T**: Thiocardenolides. I. Synthesis and biological actions of 3-β-thiocyanato-14-β-hydroxy-5-β-card-20(22)-enolide. *J Pharm Sci* 65:765-768, 1975.  [Cited by 8](https://scholar.google.com/scholar?cites=12720368677181949192&as_sdt=4000005&sciodt=0,18&hl=en)
27. Ku D, Akera T, **Tobin T**, Brody TM: Effects of monovalent cations of cardiac Na++K+-ATPase activity and on contractile form. *Naunyn-Schmiedeberg's Archiv fur Pharmacol* 20: 113-131, 1975. [Cited by 47](https://scholar.google.com/scholar?cites=7247953109285536648&as_sdt=4000005&sciodt=0,18&hl=en)
28. **Tobin T**, Abramson H: Irreversible inhibition of [3H]-ouabain binding to Na++K+-ATPase by digoxigenin-3-12 dibromo acetate, an alkylating derivative of digoxigenin. *Eur J Pharmacol* 32: 243-250, 1975.  [Cited by 3](https://scholar.google.com/scholar?cites=17913088466202010645&as_sdt=4000005&sciodt=0,18&hl=en)
29. **Tobin T**, Akera T: Shodowmycin, a nucleotide site directed inhibitor of Na++K+-ATPase. *Biochem Biophys Acta* 389: 126-136, 1975.  [Cited by 22](https://scholar.google.com/scholar?cites=17518700645976681484&as_sdt=4000005&sciodt=0,18&hl=en)
30. **Tobin T**, Akera T, Brody SI, Brody TM: The mechanism of interaction of Cassaine with Na++K+-ATPase. *Biochemical Soc Transactions* 2:1375-1378, 1975.  [Cited by 1](https://scholar.google.com/scholar?cites=14543960159589902136&as_sdt=4000005&sciodt=0,18&hl=en)
31. **Tobin T**, Akera T, Brody TM: Gel electrophoretic identity of the Na+, Mg++, and Na+ Ca++-stimulated phosphorylations of Na+ K+-ATPase. *Biochem Biophys Acta* 393, 117-125, 1975.  [Cited by 12](https://scholar.google.com/scholar?cites=6538692359905707739&as_sdt=4000005&sciodt=0,18&hl=en)
32. **Tobin T**, Akera T, Brody TM, Tanaja HA: Irreversible inhibition of Na++K+-ATPase: Strophanthidin 3,5-bisparabenzoylbenzoate, a photo-chemical analog of strophanthidin. *Res Commun Chem Pathol Pharmacol* 10: 605-617, 1975.  [Cited by 2](https://scholar.google.com/scholar?cites=12473240514454995260&as_sdt=4000005&sciodt=0,18&hl=en)
33. Akera T, Ku D, **Tobin T**, Brody TM: The complexes of ouabain with sodium- and potassium-activated adenosine triphosphatase formed with various ligands: The relationship to the complex formed in the beating heart. *Mol Pharmacol* 12:101-114, 1976.  [Cited by 50](https://scholar.google.com/scholar?cites=16445688698817094121&as_sdt=4000005&sciodt=0,18&hl=en)
34. **Tobin T**, Blake JW, Tai Cy, Arnett S: The pharmacology of procaine in the horse. I. A preliminary report. *Am J Vet Res*, 37:1107-1110, 1976. [Cited by 3](https://scholar.google.com/scholar?cites=12758331391284431902&as_sdt=4000005&sciodt=0,18&hl=en)
35. Blake JW, **Tobin T**: The gas-liquid chromatograph and the electron capture detector in equine drug testing. *Brit J Sports Med*, 10:129-132, 1976. [Cited by 2](https://scholar.google.com/scholar?cites=5145836327176488927&as_sdt=4000005&sciodt=0,18&hl=en)
36. Han CS, **Tobin T**, Akera T and Brody TM: Effects of alkali metal cations on phospho-enzyme levels and [3H]-ouabain binding to Na++K+-ATPase. *Biochem Biophys Acta* 429:993-1005, 1976.
37. Ku D, Akera T, **Tobin T**, Brody TM: Comparative species studies on the effects of monovalent cations and ouabain on cardiac Na++K+-ATPase and contractile force. *J Pharm Exp Therap* 197(2):458-469, 1976.
38. Miller JR, Blake JW, **Tobin T**: Electron capture detection of an apomorphine-heptafluorobutyrate derivative at low picogram levels. *Res Commun Chem Path Pharmacol*, 15(3):447-455, 1976. [Cited by 13](https://scholar.google.com/scholar?cites=18215219806049411237&as_sdt=4000005&sciodt=0,18&hl=en)
39. Roberts BL, Blake JW, **Tobin T**: Drug interactions in the horse: Effect of furosemide on plasma and urinary levels of phenylbutazone. *Res Commun Chem Path Pharmacol*, 15:257-265, 1976. [Cited by 9](https://scholar.google.com/scholar?cites=6676529362469099846&as_sdt=4000005&sciodt=0,18&hl=en)
40. **Tobin T**: Drugs, Horses and the Kentucky Equine Drug Research Program. Proc 2nd Conv Natn'l Assoc. State Racing Commissioners, San Diego, CA, 1976, pp 89-99.
41. **Tobin T**: Drugs, Racehorses and the Kentucky Drug Research Program. *The Blood-Horse*, Vol CII(14):1453-1455, April 1976.
42. **Tobin T**, Akera T, Brody SI, Ku D, Brody TM: Cassaine: Mechanism of inhibition of Na++K+-ATPase and relationships of this inhibition to cardiotonic actions. *Eur J Pharmacol* 32: 133-145, 1976. [Cited by 32](https://scholar.google.com/scholar?cites=5428245779397677089&as_sdt=4000005&sciodt=0,18&hl=en)
43. **Tobin T**, Akera T, Han CS, Brody TM: Studies on the stable inhibition of Na++K+-ATPase by Cassaine. *Eur J Pharmacol* 35: 59-68, 1976. [Cited by 2](https://scholar.google.com/scholar?cites=5698409198504343310&as_sdt=4000005&sciodt=0,18&hl=en)
44. **Tobin T**, Akera T, Taneja HA, Brody TM: Cardiotonic site directed irreversible inhibition of Na++K+-ATPase by 3-azidoacetyl-strophanthidin, a photochemical analogue of strophanthidin. *Eur J Pharmacol* 35:68-76, 1976. [Cited by 5](https://scholar.google.com/scholar?cites=2231193421559500956&as_sdt=4000005&sciodt=0,18&hl=en)
45. **Tobin T**, Blake JW: A review of the pharmacology, pharmacokinetics and behavioral effects of procaine in the Thoroughbred Horse. *Brit J Sports Med*, 10:109-116, 1976. [Cited by 6](https://scholar.google.com/scholar?cites=8460898120508897749&as_sdt=4000005&sciodt=0,18&hl=en)
46. **Tobin T**, Swerczek TW, Blake JW: Pine-oil toxicity in the horse: Drug detection, residues and pathological changes. *Res Commun Chem Path Pharmacol* 15:291-301, 1976. [Cited by 10](https://scholar.google.com/scholar?cites=2776928819853845945&as_sdt=4000005&sciodt=0,18&hl=en)
47. **Tobin T**, Blake JW, Tai Cy, Sturma L, Arnett S: The pharmacology of procaine in the horse II. The procaine esterase properties of equine plasma and synovial fluid. *Am J Vet Res*, 37:1165-1170, 1976. [Cited by 15](https://scholar.google.com/scholar?cites=16773792318859845462&as_sdt=4000005&sciodt=0,18&hl=en)
48. **Tobin T**, Tai Cy, O'Leary J, Sturma L, Arnett S: The pharmacology of procaine in the horse. III. Evidence against the existence of a procaine-penicillin complex. *Am J Vet Res*, 38:437-442, 1977. [Cited by 4](https://scholar.google.com/scholar?cites=17048753490963057003&as_sdt=4000005&sciodt=0,18&hl=en)
49. Gabel AA, **Tobin T**, Ray RS, Maylin GA: Furosemide (Lasix®) in horses: A review. *J Eq Med Surg*, 1:215-218, 1977. [Cited by 19](https://scholar.google.com/scholar?cites=5342758882102392631&as_sdt=4000005&sciodt=0,18&hl=en)
50. Gabel AA, **Tobin T**, Ray RS, Maylin GA: Phenylbutazone (Butazolidin R) in horses: A review. *J Eq Med Surg*, 1:221-225, 1977. [Cited by 33](https://scholar.google.com/scholar?cites=4590128558071075253&as_sdt=4000005&sciodt=0,18&hl=en)
51. Miller MR, Roberts BL, Blake JW, Valentine RW, **Tobin T**: Drug interactions in the horse. III. Effects of furosemide on urinary concentrations of glucuronide metabolites of pentazocine. *Res Commun Chem Path Pharmacol*, 17;447-456, 1977. [Cited by 6](https://scholar.google.com/scholar?cites=10702111365696683718&as_sdt=4000005&sciodt=0,18&hl=en)
52. **Tobin T**: Furosemide (Lasix®) in the horse: An overview. Proc 23rd Annual Conv AAEP, Vancouver, 1977, pp 419-421. [Cited by 1](https://scholar.google.com/scholar?cites=15777326565048625322&as_sdt=4000005&sciodt=0,18&hl=en)
53. **Tobin T**, Akera T: Interaction of ouabain and cassaine with Na++K+-ATPase and its relationship to their inotropic actions. In: Drug Action at the Molecular Level, MacMillan Pub Co, London, 1977, pp 213-133. [Cited by 2](https://scholar.google.com/scholar?cites=11215050386770686421&as_sdt=4000005&sciodt=0,18&hl=en)
54. **Tobin T**, Blake JW: The pharmacology of procaine in the horse V. Relationships between plasma and urinary concentrations of procaine. *J Eq Med Surg*, 1:188-194, 1977. [Cited by 10](https://scholar.google.com/scholar?cites=7947120819279045835&as_sdt=4000005&sciodt=0,18&hl=en)
55. **Tobin T**, Blake JW, Maylin G: Use of bumetanide in horses. *Am J Vet Res*, 38:413, 1977. [Cited by 1](https://scholar.google.com/scholar?cites=6353732978247272752&as_sdt=4000005&sciodt=0,18&hl=en)
56. **Tobin T**, Blake JW, Sturma L, Arnett S, Truelove J: The pharmacology of procaine in the horse: Pharmacokinetics and behavioral effects. *Am J Vet Res*, 38:637-647, 1977. [Cited by 15](https://scholar.google.com/scholar?cites=9146158768920287153&as_sdt=4000005&sciodt=0,18&hl=en)
57. **Tobin T**, Blake JW, Valentine R: Drug interactions in the horse. I. Effects of chloramphenicol, quinidine and oxyphenbutazone on phenylbutazone metabolism. *Am J Vet Res*, 38:123-127, 1977. [Cited by 8](https://scholar.google.com/scholar?cites=2636317668979806240&as_sdt=4000005&sciodt=0,18&hl=en)
58. Ballard S. White CB, Woods WE, Voos J, **Tobin T**: Biochemical and behavioral effects of reserpine in the horse. Presented at the 2nd Equine Pharmacology Symposium, Ohio State University, Columbus, OH, 1978.
59. Blake JW, **Tobin T**, Roberts BL: A modified Folin-Denis over-spray for the detection of phenolic alkaloidal drugs. *Irish Vet J*, pp 209-213, December 1978. [Cited by 2](https://scholar.google.com/scholar?cites=10535160475510726638&as_sdt=4000005&sciodt=0,18&hl=en)
60. Combie J, Dougherty J, Shults T, **Tobin T**: Quantitation and selective blockade of response to narcotic analgesics in the horse. 2nd Equine Pharmacology Symposium, The Ohio State University, Columbus pp 183-188, 1978.
61. Roberts BL, Blake JW, **Tobin T**: The pharmacology of furosemide in the horse. II. Its detection, pharmacokinetics and clearance from urine. *J Eq Med Surg*, 2:185-194, 1978.  [Cited by 24](https://scholar.google.com/scholar?cites=7908370372249132306&as_sdt=4000005&sciodt=0,18&hl=en)
62. Shults T, Roberts BL, Blake JW, **Tobin T**: The detection, identification and basic pharmacology of furosemide in the horse. 2nd Equine Pharmacology Symposium, the Ohio State University, Columbus, pp 43-57, 1978.
63. **Tobin T**: A review of the pharmacology of furosemide in the horse. Proc 3rd Int’l Equine Doping Conference, Rome, Italy, March 1977. Atti Della Conferenza Int’l Sul Doping, pp 323-352, 1978.
64. **Tobin T**: A review of the pharmacology of procaine in the horse. *J Eq Med Surg*, 2:209, 213-214, 1978.
65. **Tobin T**: A review of the pharmacology of reserpine in the horse. *J Eq Med Surg*, 2(10):433-438, 1978.
66. **Tobin T**: Chemotherapy in the horse: The penicillins. *J Eq Med Surg*, 2(11):475-479, 1978.
67. **Tobin T**: Narcotic analgesics and the opiate receptor in the horse. *J Eq Med Surg*, 2:397-399, 1978.
68. **Tobin T**: Pharmacology Review: A review of recent research on furosemide in the horse. *J Eq Med Surg*, 2:314, 320-321, 1978.
69. **Tobin T**: Pharmacology Review: Testing for drugs in horses. *J Eq Med Surg*, 2(12):518-524, 1978.
70. **Tobin T**: Plasma and urinary drug concentrations, drug "clearance times", and pharmacological effects. *J Eq Med Surg*, 2(6):262-267, 1978.
71. **Tobin T**: The anabolic steroid androgen group of drugs. *J Eq Med Surg*, 2:163-165, 1978.
72. **Tobin T**, Roberts BL, Miller RW: The pharmacology of furosemide in the horse. I. Effects on the disposition of procaine, methylphenidate, phenylbutazone and pentazocine. *J Eq Med Surg*, 1:402-409, 1978.
73. **Tobin T**, Roberts BL, Swerczek TW, Crisman M: The pharmacology of furosemide in the horse. III, Dose and time response relationships, effects of repeated dosing, and performance effects. *J Eq Med Surg*, 2:216-226, 1978, [Cited by 52](https://scholar.google.com/scholar?cites=5816382420658312234&as_sdt=4000005&sciodt=0,18&hl=en) .
74. Akera T, Gubitz RH, Brody TM, **Tobin T**: Effects of monovalent cations on Na++K+-ATPase in rat brain slices. *Europ J Pharmacol*, 55:281-292, 1979.
75. Combie J, Dougherty J, Nugent E, **Tobin T**: The pharmacology of narcotic analgesics in the horse. IV. Dose and time response relationships for behavioral responses to morphine, meperidine, pentazocine, anileridine, methadone, and hydromorphone. *J Eq Med Surg*, 3:377-385, 1979.
76. Combie J, Shults T, **Tobin T**: The pharmacokinetics and behavioral effects of fentanyl and other narcotic analgesics in the horse. Proc 3rd Int’l Symposium on Equine Medication Control, Lexington, June 1979, pp 311-321.
77. Maylin, Fregin, **Tobin** et al.: Drugs and performance testing in racing horses. Report of NASRC Veterinary Chemists Advisory Committee, March 27, 1979. NASRC Proceedings, San Francisco, 85-106, 1979.
78. Shults T, Combie J, Dougherty J, **Tobin T**: Variable interval conditioning in the horse: A sensitive measure of behavior. Proc 3rd Int’l Symposium on Equine Medication Control, Lexington, June 1979, pp 367-379.
79. **Tobin T**: Pharmacology Review: Streptomycin, gentamicin, and the amino-glycoside antibiotics. *J Eq Med Surg*, 2:206-212, 1979.
80. **Tobin T**: Pharmacology Review: The corticosteroids. *J Eq Med Surg*, 3:10-15, 1979.
81. **Tobin T**: Pharmacology Review: The non-steroidal anti-inflammatory drugs. I. Phenylbutazone. *J Eq Med Surg*, 3:253-258, 1979.
82. **Tobin T**: Pharmacology Review: The non-steroidal anti-inflammatory drugs. II. Equiproxen, Meclofenamic acid, Flunixin and others. *J Eq Med Surg*, 3(7):298-392, 1979.
83. **Tobin T**, Ballard S: Pharmacology Review: The phenothiazine "tranquilizers." *J Eq Med Surg*, 3:460-466, 1979. [Cited by 8](https://scholar.google.com/scholar?cites=10055809217039687503&as_sdt=4000005&sciodt=0,18&hl=en)
84. **Tobin T**, Blake JW, Woods WE (Eds): Proceedings of the 3rd Int’l Symposium on Equine Medication Control, Lexington, KY 1979.
85. **Tobin T**, Combie J, Miller JR, Crisman MW, Blake JW: The pharmacology of narcotic analgesics in the horse. II. Studies on the detection, pharmacokinetics, urinary clearance times and behavioral effects of pentazocine and fentanyl in the horse. *Irish Vet J*, 33:169-176, 1979.
86. **Tobin T**, Combie J, Shults T: Pharmacology Review: Actions of central stimulant drugs in the horse. II. *J Eq Med Surg*, 3(3):102-109, 1979.
87. **Tobin T**, Combie J, Shults T, Dougherty J: The pharmacology of narcotic analgesics in the horse. III. Characteristics of the locomotor effects of fentanyl and apomorphine. *J Eq Med Surg*, 3(6):284-288, 1979.
88. **Tobin T**, Maylin GA, Henion J, Woodward C, Ray RS, Johnston J, Blake JW: An evaluation of pre- and post-race testing and blood and urine drug testing in horses. *J Eq Med Surg*, 3(2):85-90, 1979.
89. **Tobin T**, Miller JR: The pharmacology of narcotic analgesics in the horse. I. The detection, pharmacokinetics and urinary "clearance times" of pentazocine. *J Eq Med Surg*, 3(4):191-198, 1979.
90. **Tobin T**, White CB, Woods WE: The pharmacology of reserpine in the horse. II. Effects of reserpine on platelet serotonin uptake and behavior. *J Eq Med Surg*, 3:446-451, 1979.
91. **Tobin T**, Woods WE: Pharmacology review: Actions of central stimulant drugs in the horse. I. *J Eq Med Surg*, 3(2):60-66, 1979.
92. **Tobin T**, Woods WE: Pharmacology Review: Drug metabolism and elimination in the horse. *J Eq Med Surg*, 3(3):150-156, 1979.
93. White CB, Woods WE, **Tobin T**: The pharmacology of reserpine in the horse. I. Effects of reserpine and imipramine on platelet uptake of serotonin, in vitro and in vivo. *J Eq Med Surg* 3(7):325-330, 1979.
94. **Tobin T**: An overview of the major antibiotics in equine medicine. Proc 26th Annual Conf AAEP, Anaheim, CA, December 1980, pp 491-502. [Cited by 2](https://scholar.google.com/scholar?cites=12234323159836249151&as_sdt=4000005&sciodt=0,18&hl=en)
95. **Tobin T**, Combie J: The pharmacology and therapeutics of exercise-induced pulmonary hemorrhage (EIPH). Proc 26th Annual Conf AAEP, Anaheim, CA, December 1980, pp 435-440. [Cited by 2](https://scholar.google.com/scholar?cites=17624575224950187991&as_sdt=4000005&sciodt=0,18&hl=en)
96. **Tobin T**, Combie JD, Akera T: Current status of drug receptor theory with specific reference to Na++K+-ATPase and opiate receptors. Proc 2nd Symposium on Veterinary Pharmacology and Therapeutics, Philadelphia, June 1980, pp 123-165.
97. **Tobin T**, Nugent T: Pharmacology of corticosteroid therapy in the horse. Proc 26th Annual Conf AAEP, Anaheim, CA, December 1980, pp 411-415.
98. Ballard S, **Tobin T**: Atypical conditions for qualitative recovery of acepromazine and chlorpromazine from plasma. *J Toxic & Environmntl Hlth*, 7:745-751, 1981.
99. Ballard S, **Tobin T**: Pharmacology, pharmacokinetics, and behavioral effects of acepromazine in the horse. Proc 4th Int’l Conf Control Drugs in Racehorses, Melbourne, Australia, May 1981, pp 81-86.
100. Ballard S, **Tobin T**: Recovery of acepromazine from equine plasma and its pharmacology in the horse. Proc 4th Int’l Symposium on Equine Medication Control, Melbourne, Australia, 1981.
101. Combie J, Blake JW, Ramey BE, **Tobin T**: The pharmacology of narcotic analgesics in the horse: Quantitative detection of morphine in equine blood and urine and logit-log transformations of this data. *Am J Vet Res* 42(9):1523-1530, 1981.
102. Combie J, Blake JW, **Tobin T**: Phenylbutazone and other drugs in horses racing under a controlled medication program. Proc 4th Int’l Symposium on Equine Medication Control, Melbourne, Australia, May 1981, pp 68-73.
103. Combie J, Nugent T, **Tobin T**: Inability of goldenseal to interfere with the detection of morphine in urine. *J Equine Vet Sci*, 2(1):16-19, 1981.
104. Combie J, Nugent T, **Tobin T**: The pharmacology of furosemide in the horse. IV. The duration of reduction of urinary concentration of drugs. *J Equine Vet Sci*, 1:203-207, 1981. [Cited by 6](https://scholar.google.com/scholar?cites=7873619369108294597&as_sdt=4000005&sciodt=0,18&hl=en)
105. Combie J, Shults T, Nugent E, Dougherty J, **Tobin T**: Pharmacology of narcotic analgesics in the horse. Selective blockade of narcotic-induces locomotor activity. *Am J Vet Res* 42:716-721, 1981. [Cited by 42](https://scholar.google.com/scholar?cites=14524473333787304626&as_sdt=4000005&sciodt=0,18&hl=en)
106. Shults T, Kownacki AP, Woods WE, Valentine RW, Dougherty J, **Tobin T**: Pharmacokinetics and behavioral effects of methylphenidate in Thoroughbred horses. *Am J Vet Res*, 42: 722-726, 1981. [Cited by 5](https://scholar.google.com/scholar?cites=381885927942643284&as_sdt=4000005&sciodt=0,18&hl=en)
107. **Tobin T**: Drugs and the Performance Horse. 480 pages, Charles C. Thomas, Springfield, IL, 1981. https://uknowledge.uky.edu/gluck\_books/1/ [Cited by 158](https://scholar.google.com/scholar?cites=3554228360187951250&as_sdt=4000005&sciodt=0,18&hl=en)
108. Ballard S, Shults, T, Kownacki AA, Blake JW, **Tobin T**: The pharmacokinetics, pharmacological responses, and behavioral effects of acepromazine in the horse. *J Vet Pharmacol Therap*, 5:21-31, 1982. [Cited by 33](https://scholar.google.com/scholar?cites=17814505846191169230&as_sdt=4000005&sciodt=0,18&hl=en)
109. Chay S, Woods WE, Nugent TE, Blake JW, **Tobin T**: The pharmacology of non-steroidal anti-inflammatory drugs in the horse. III. Flunixin meglumine (Banamine®). *Equine Practice*, 4(10):16-23, 1982.
110. Combie J, Blake JW, Nugent T, **Tobin T**: Furosemide, Patella vulgata β-glucuronidase and drug analysis: Conditions for enhancement of the TLC detection of apomorphine, butorphanol, hydromorphone, nalbuphine, oxymorphone and pentazocine in equine urine. *Res Comm in Chem Pathol Pharmacol* 35(1):27-41, 1982. [Cited by 8](https://scholar.google.com/scholar?cites=11177303699196491474&as_sdt=4000005&sciodt=0,18&hl=en)
111. Combie J, Blake JW, Nugent T, **Tobin T**: Morphine-glucuronide hydrolysis: Superiority of glucuronidase from Patella vulgata. *Clin Chem*, 28(1):83-86, 1982. [Cited by 60](https://scholar.google.com/scholar?cites=4230169495638381406&as_sdt=4000005&sciodt=0,18&hl=en)
112. Nugent TE, Combie J, Weld JM, Burns P, **Tobin T**: Effects of enkephalins versus opiates on locomotor activity of the horse. *Res Commun Chem Path Pharmacol*, 35(3):405-419, 1982. [Cited by 7](https://scholar.google.com/scholar?cites=4750488172662426787&as_sdt=4000005&sciodt=0,18&hl=en)
113. Shults T, Combie J, Dougherty J, **Tobin T**: Variable-interval responding in the horse: A sensitive method of quantitating effects of centrally acting drugs. *Am J Vet Res*, 43(7):1143-1146, 1982. [Cited by 4](https://scholar.google.com/scholar?cites=10868789323322092097&as_sdt=4000005&sciodt=0,18&hl=en)
114. **Tobin T**: Medication of performance horses. In: Equine Medicine and Surgery, Am Vet Pub, Inc., Santa Barbara, CA, 1982, pp 158-172.
115. **Tobin T**, Combie J: Performance testing in the horse: A review of the role of simple behavioral models in the design of performance experiments. *J Vet Pharmacol Therap*, 5:105-118, 1982. [Cited by 1](https://scholar.google.com/scholar?cites=15944282548079767691&as_sdt=4000005&sciodt=0,18&hl=en)
116. **Tobin T**, Combie J, Nugent T: Drug "clearance times" and "detection times" in horses: A reappraisal. *J Vet Pharmacol Therap*, 5:195-197, 1982. [Cited by 2](https://scholar.google.com/scholar?cites=7889674523670194929&as_sdt=4000005&sciodt=0,18&hl=en)
117. **Tobin T**, Kamerling S, Nugent TE: Drugs and equine performance: A review. In Snow DH, Persson SGB, Rose RJ (Eds): Equine Exercise Physiology, Proc 1st Int’l Conf, Oxford, UK, 1982, pp 510-520.
118. Chay S, Woods WE, Rowse K, Nugent T, Blake JW, **Tobin T**: The pharmacology of furosemide in the horse. V. Pharmacokinetics and blood levels of furosemide after intravenous administration. *J Drug Metab Disp*, 11(3):226-231, 1983. [Cited by 15](https://scholar.google.com/scholar?cites=3617105925161901225&as_sdt=4000005&sciodt=0,18&hl=en)
119. Chay S, Woods WE, **Tobin T**: The pharmacokinetics and blood levels of furosemide after intravenous administration. Proc 5th Int’l Conf, Cont. use of drugs in racehorses, Toronto, Canada, June 1983, pp 41-49.
120. Collett L, Kamerling S, Woods WE, Weckman T, Nugent T, DeQuick D, **Tobin T**: Clearance times and behavioral effects of clenbuterol in the horse. Proc 5th Int’l Conf, Cont. Use of Drugs in Racehorses, Toronto, Canada, June 1983, pp 265-271.
121. Combie J, Nugent T, **Tobin T**: Pharmacokinetics and protein binding of morphine in horses. *Am J Vet Res*, 44(5):870-874, 1983. [Cited by 27](https://scholar.google.com/scholar?cites=815653528564662316&as_sdt=4000005&sciodt=0,18&hl=en)
122. DeQuick D, Chay S, Kamerling S, **Tobin T**: Pain perception in the horse and its control by medication: An overview. Proc 5th Int’l Conf, Cont. use of drugs in racehorses, Toronto, Canada, June 1983, pp 50-51.
123. Greene EW, Woods WE, **Tobin T**: Pharmacology, pharmacokinetics, and behavioral effects of caffeine in horses. *Am J Vet Res*, 44(1):57-63, 1983. [Cited by 27](https://scholar.google.com/scholar?cites=11600251377369578745&as_sdt=4000005&sciodt=0,18&hl=en)
124. Houston T, **Tobin T**, Blake JW: Effect of urine pH on urine levels of oxyphenbutazone in racing horses. *J Drug Metab Disp*, 11(6):617-619, 1983. [Cited by 7](https://scholar.google.com/scholar?cites=14948873051581854723&as_sdt=4000005&sciodt=0,18&hl=en)
125. Houston T, **Tobin T**, Blake JW: Effect of urine pH on urine levels of phenylbutazone, oxyphenbutazone and γ-hydroxyphenylbutazone in racing horses. Proc 5th Int’l Conf, Cont. use of drugs in racehorses, Toronto, Canada, June 1983, pp 26-33.
126. Kamerling S, DeQuick D, Crisman M, Weckman T, Nugent T, **Tobin T**: Phenylbutazone: Lack of effect on normal cutaneous pain perception in the horse. Proc 5th Int’l Conf, Cont. Use of Drugs in Racehorses, Toronto, Canada, June 1983, pp 85-89.
127. Kamerling S, **Tobin T**: Pain: Neurophysiology and experimental equine models. Proc 5th Int’l Conf, Cont. use of drugs in racehorses, Toronto, Canada, June 1983, pp 52-55.
128. Oehme FW, **Tobin T** (Eds): Toxicology. Chapter 13 in Robinson NE (Ed.), Current Therapy in Equine Medicine. Sanders, Philadelphia, 1983, pp 573-615.
129. **Tobin T**: Phenylbutazone: Its actions, effects, and role in equine medicine. *Modern Equine Practice*, Jan/Feb 1983, p 25.
130. **Tobin T**: Pre-race testing and its role in equine medication control. *Equine Vet J*, 15(1):54-55, 1983.
131. **Tobin T**: Testimony on phenylbutazone and furosemide testing before the house subcommittee on criminal justice. *The Horsemen's Journal*, 34(7):142-149, 1983.
132. Chay S, Woods WE, Nugent T, Weckman T, Houston T, Sprinkle F, Blake JW, **Tobin T**, Soma L, Yocum J, Smith JD: Population distributions of phenylbutazone and oxyphenbutazone after oral and IV dosing in horses. *J Vet Phar Therap*, 7:265-276, 1984. [Cited by 13](https://scholar.google.com/scholar?cites=17948144930870128550&as_sdt=4000005&sciodt=0,18&hl=en)
133. Houston T, Chay S, Woods WE, Blake JW, **Tobin T**: Phenylbutazone levels in post-race samples from horses racing in Kentucky: A review. Proc 4th Symposium on Veterinary Pharmacology and Therapeutics, College Station TX, April 1984, pp 96-115.
134. **Tobin T**, Combie J: Some reflections on positive results from medication control tests in the USA. *Eq Vet J*, 16:43-46, 1984.
135. Weld JM, Kamerling S, Combie J, Nugent TE, Woods WE, Oeltgen P, **Tobin T**: The effects of naloxone on endotoxic and hemorrhagic shock in horses. *Res Commun Chem Path Pharmacol*, 44(2):227-238, 1984.
136. Blake JW, **Tobin T**, Chang S-L: TLC detection of etorphine in equine urines. Crone DL (Ed.) Proc 6th Int’l Conf Racing Analysts and Vets, Hong Kong, 1985, pp 205-208.
137. Houston T, Chay S, Woods WE, Combs G, Kamerling S, Blake JW, Edmunson AG, Vessiney R, **Tobin T**: Phenylbutazone and its metabolites in plasma and urine of Thoroughbred horses racing in California and Kentucky: Population distributions and the effects of urinary pH. *J Vet Pharm Therap*, 8:136-149,1985. [Cited by 11](https://scholar.google.com/scholar?cites=15484208653350192412&as_sdt=4000005&sciodt=0,18&hl=en)
138. Kamerling SG, DeQuick DJ, Weckman TJ, Sprinkle FP, **Tobin T**: Differential effects of phenylbutazone and local anesthetics on nociception in the equine. *Eur J Pharm*, 107:35-41, 1985.
139. Kamerling S, DeQuick DJ, Weckman TJ, **Tobin T**: Dose-related effects of fentanyl on autonomic and behavioral responses in performance horses. *Gen Pharmacol*, 16(3):253-258, 1985. [Cited by 47](https://scholar.google.com/scholar?cites=6253877914351299654&as_sdt=4000005&sciodt=0,18&hl=en)
140. Kamerling S, Weckman TJ, DeQuick D, **Tobin T**: A method for studying cutaneous pain perception and analgesia in horses. *J Pharm Meth*, 13(3):267-274, 1985. [Cited by 44](https://scholar.google.com/scholar?cites=2926515345991684182&as_sdt=4000005&sciodt=0,18&hl=en)
141. Kamerling SG, Weckman TJ, Donahoe J, **Tobin T**: The effects of kappa-opioid receptor narcotics in the horse: A new class of equine analgesics. Crone DL (Ed.) Proc 6th Int’l Conf Racing Analysts Vets. Hong Kong, 1985, pp 37-45.
142. Karns PA, Kamerling SG, Bagwell CA, **Tobin T**: Quantification of equine hoof lameness using an electronic hoof tester. Crone DL (Ed.) Proc 6th Int’l Conf Racing Analysts Vets. Hong Kong, 1985, pp 325-329.
143. Soma LR, Sams R, Duer W, **Tobin T**, Woodward C, McDonald J: Plasma and serum concentrations of phenylbutazone and oxyphenbutazone in racing Thoroughbreds 24 hours after various dosage regimens. *Am J Vet Res*, 46(4):932-938, 1985. [Cited by 15](https://scholar.google.com/scholar?cites=8788337902857230393&as_sdt=4000005&sciodt=0,18&hl=en)
144. **Tobin T**, Kamerling SG, Anderson RL: Drugs and race-horse performance. *Trends in Pharm Sci*, 6(3):129-132, 1985. [Cited by 2](https://scholar.google.com/scholar?cites=18159849867790093193&as_sdt=4000005&sciodt=0,18&hl=en)
145. **Tobin T**, Woods WE, Anderson RC, Houston T, Blake JW: Influence of urinary pH on concentrations of phenylbutazone and its metabolites in post-race urine samples. Crone DL (Ed) Proc 6th Int’l Conf Racing Analysts and Vets. Hong Kong, 1985, pp 59-68.
146. **Tobin T**, Woods WE, Blake JW: Efficacy and cost of testing for illegal medications in horses. Crone DL (Ed) Proc 6th Int’l Conf Racing Analysts and Vets. Hong Kong, 1985, pp 113-121.
147. **Tobin T**, Woods WE, Weckman TJ, Wood TW, Chang S-L, Blake JW: Radioimmunoassay screening for etorphine in racing horses. Crone DL (Ed.) Proc 6th Int’l Conf Racing Analysts Vets., Hong Kong, 1985, pp 199-203.
148. Woods WE, Blake JW, **Tobin T**: Effects of phenylbutazone and oxyphenbutazone on basic drug detection in high performance thin layer chromatographic systems. Crone DL (Ed.) Proc 6th Int’l Conf Racing Analysts and Vets. Hong Kong, 1985, pp 83-88.
149. Woods WE, Chay S, Houston T, Blake JW, **Tobin T**: Effects of phenylbutazone and oxyphenbutazone on basic drug detection in high performance thin layer chromatographic systems. *J Vet Pharm Therap*, 8:181-189, 1985. [Cited by 4](https://scholar.google.com/scholar?cites=9838907879447860240&as_sdt=4000005&sciodt=0,18&hl=en)
150. Woods WE, Chay S, Houston T, Blake JW, **Tobin T**: Efficacy of testing for illegal medication in horses: A survey. *JAVMA*, 187:927-930, 1985. [Cited by 3](https://scholar.google.com/scholar?cites=9503290103297518776&as_sdt=4000005&sciodt=0,18&hl=en)
151. Woods WE, Weckman TJ, Blake JW, **Tobin T**: Effects of phenylbutazone and oxyphenbutazone on acidic drug detection in high performance thin layer chromatographic systems. Crone DL (Ed.) Proc 6th Int’l Conf Racing Analysts and Vets. Hong Kong, 1985, pp 69-82.
152. Blake JW and **Tobin T**: Testing for drugs in horses. *J Eq Vet Sci*, 6(2):93-97, 1986.  [Cited by 5](https://scholar.google.com/scholar?cites=11751737639640258888&as_sdt=4000005&sciodt=0,18&hl=en)
153. Kamerling SG, DeQuick DJ, Weckman TJ, **Tobin T**: Dose-related effects of ethylketazocine on nociception, behavior, and autonomic responses in the horse. *J Pharm Pharmacol*, 38(1):40-45, 1986. [Cited by 12](https://scholar.google.com/scholar?cites=4206829612968136534&as_sdt=4000005&sciodt=0,18&hl=en)
154. **Tobin T**: Experiences as an expert witness: Educating people while under oath. *J Eq Vet Sci*, 6(3):129-133, 1986.
155. **Tobin T**: Medication Control: Rules. *J Eq Vet Sci* 6(4):191-195, 1986. [Cited by 4](https://scholar.google.com/scholar?cites=16697344480649482962&as_sdt=4000005&sciodt=0,18&hl=en)
156. **Tobin T**: Medication Control: The efficacy and cost of drug testing. *J Eq Vet Sci* 6(6):333-336, 1986. [Cited by 1](https://scholar.google.com/scholar?cites=1892932385207655729&as_sdt=4000005&sciodt=0,18&hl=en)
157. **Tobin T**: Medication Control: Uncertainty in the "Detection Times" for drugs in horses. *J Eq Vet Sci* 6(3):124-128, 1986.  [Cited by 2](https://scholar.google.com/scholar?cites=8505674716345146454&as_sdt=4000005&sciodt=0,18&hl=en)
158. **Tobin T**, Blake JW: Pre-purchase testing for drugs in horses: A review. *J Eq Vet Sci*, 6(1):35-39, 1986. [Cited by 1](https://scholar.google.com/scholar?cites=12066100088024064693&as_sdt=4000005&sciodt=0,18&hl=en)
159. **Tobin T**, Chay S, Kamerling S, Woods WE, Weckman TJ, Blake JW, Lees P: Phenylbutazone in the horse: A review. *J Vet Pharmacol Therap*, 9:1-25, 1986. [Cited by 53](https://scholar.google.com/scholar?cites=1281691727439585886&as_sdt=4000005&sciodt=0,18&hl=en)
160. **Tobin T**, Woods WE, Tai H-H, Tai C, Weckman TJ, Wood TW, Blake JW: Radioimmunoassay screening for fentanyl in equine and human urine samples with an iodinated fentanyl analog. Proc 40th Meeting Assoc of Racing Chem, Lexington, KY, 141-150, 1986.
161. Woods WE, Weckman, T, Blake JW, **Tobin T**: Effects of phenylbutazone and Oxyphenbutazone on acidic drug detection in high performance thin layer chromatographic systems. *J Pharmacol Meth*, 16(4):297-313, 1986. [Cited by 3](https://scholar.google.com/scholar?cites=9386383549194365770&as_sdt=4000005&sciodt=0,18&hl=en)
162. Woods WE, Tai HH, Tai C, Weckman TJ, Wood TW, Barrios H, Blake JW, **Tobin T**: High-sensitivity radioimmunoassay screening method for fentanyl. *Am J Vet Res* 47(10):2180-2183, 1986. [Cited by 14](https://scholar.google.com/scholar?cites=4235218093623216765&as_sdt=4000005&sciodt=0,18&hl=en)
163. Woods WE, Weckman TJ, Wood TW, Chang S-L, Blake JW, **Tobin T**: Radioimmunoassay screening for etorphine in racing horses. *Res Commun Chem Path Pharmacol*, 52(2):237-249, 1986. [Cited by 10](https://scholar.google.com/scholar?cites=14171375940442602284&as_sdt=4000005&sciodt=0,18&hl=en)
164. McDonald J, Gall R, Wiedenback P, Bass VD, DeLeon B, Brockus C, Stobert D, Wie S, Prange CA, Yang JM, Tai CL, Weckman TJ, Woods WE, Tai H-H, Blake JW, **Tobin T**: Immunoassay detection of drugs in horses. I. Particle concentration fluoroimmunoassay detection of fentanyl and its congeners. *Res Commun Chem Path Pharmacol*, 57(3):389-407, 1987. [Cited by 14](https://scholar.google.com/scholar?cites=2483244213436206328&as_sdt=4000005&sciodt=0,18&hl=en)
165. Weckman TJ, Tai C, Woods WE, Tai H-H, Blake JW, **Tobin T**: A review of the pharmacology and detection of fentanyl and its congeners in the horse. Proc 41st Meeting Assoc of Official Racing Chemists., 1987, Los Angeles, CA, pp287-313.
166. Yang J-M, Tai CL, Weckman TJ, Tai H-H, Blake JW, **Tobin T**, McDonald J, Gall R, Wiedenback P, Bass VD, Brockus C, Stobert D, Wie S, Prange CA: Immunoassay detection of drugs in horses. II. Detection of carfentanil in equine urine by RIA, PCFIA and ELISA. *Res Commun Subst Abuse*, 8(2):59-75, 1987. [Cited by 16](https://scholar.google.com/scholar?cites=3581283716179444851&as_sdt=4000005&sciodt=0,18&hl=en)
167. Kamerling S, Weckman TJ, **Tobin T**: Dose related effects of kappa agonist U-50,488H on behavior, nociception and autonomic response in the horse. *Eq Vet J*, 20(2):114-118,1988. [Cited by 26](https://scholar.google.com/scholar?cites=6006383962080087378&as_sdt=4000005&sciodt=0,18&hl=en)
168. Kwiatkowski S, Sturma L, Dai MR, Tai H-H, Watt DS, Tai CL, Woods WE, Weckman TJ, Yang J-M, Wood TW, Chang S-L, Blake JW, **Tobin T**, Prange C, Brockus C, Stobert D, Wie, Chung RA, McDonald J, Bass VD, Merchant S, Artemenko M: Immunoassay detection of drugs in racing horses. VII. Detection of acepromazine in equine blood and urine by ELISA and PCFIA. *Res Comm Chem Path Pharmacol*, 61(3):391-412, 1988. [Cited by 6](https://scholar.google.com/scholar?cites=8556609131500948404&as_sdt=4000005&sciodt=0,18&hl=en)
169. McDonald J, Gall R, Wiedenback P, Bass VD, DeLeon B, Brockus C, Stobert D, Wie S, Prange CA, Ozog FJ, Green MT, Woods WE, Tai CL, Dai MR, Weckman TJ, Tai H-H, Yang J-M, Chang S-L, Blake JW, **Tobin T**: Immunoassay detection of drugs in horses. III. Detection of morphine in equine blood by a one-step ELISA assay. *Res Commun Chem Path Pharmacol*, 59(2):259-278, 1988. [Cited by 7](https://scholar.google.com/scholar?cites=8476494433075440254&as_sdt=4000005&sciodt=0,18&hl=en)
170. McDonald J, Watt DS, Kwiatkowski S, Tai H-H, Wie S, Prange CA, Wood T, **Tobin T**: Immunoassay based pre-race testing: An effective pre-race testing system. In: Breccia A (Ed.), Il Controllo Antidoping dei Cavalli da Corsa (Proc Int’l Seminar Tech Pharmacol Legal Aspects Antidoping Control Racehorses). Bologna, Italy, October 1988, pp 43-52 (145-157).
171. Prange CA, Brockus C, Stobert D, Wie S, McDonald J, Gall R, Wiedenbach P, Bass VD, DeLeon B, Ozog FJ, Green MT, Woods WE, Tai CL, Dai MR, Weckman TJ, Tai H-H, Yang J-M, Chang S-L, Blake JW, **Tobin T**: Immunoassay detection of drugs in racing horses. V. Detection of mazindol in equine blood and urine by a one-step ELISA assay. *Res Comm Subst Abuse*, 9(1):13-30, 1988.
172. Prange CA, Wie S, Brockus CL, Dahl, PA, Lewis EL, Brecht JM, Conner JC, Chung RA, McDonald J, Bass VD, Merchant S, Kwiatkowski S, Woods WE, Watt DS, Tai H-H, Blake JW, Chang S-L, **Tobin T**: Screening for human drugs of abuse by particle concentration fluorescence immunoassay (PCFIA). *Res Comm Subst Abuse*, 9(3,4):129-155, 1988.
173. Sturma L, Tai H-H, Tai CL, **Tobin T**, McDonald J, Wie S, Prange CA, Ozog FJ: ELISA detection of morphine in the horse. Proc 7th Int’l Confer Racing Analysts Vets, Louisville, KY, April 1988, 145-153.
174. Tai CL, Wang C-J, Weckman TJ, Popot MA, Woods WE, Yang J-M, Blake JW, Tai H-H, **Tobin T**: Radioimmunoassay for etorphine in horses with a 125I analog of etorphine. *Am J Vet Res*, 49(5):622-628, 1988. [Cited by 6](https://scholar.google.com/scholar?cites=5154038830370731533&as_sdt=4000005&sciodt=0,18&hl=en)
175. **Tobin T**, Galley RH: Drugs and performance. Chapter 11 in Jones WE (Ed.), Equine Sports Medicine. Lea and Febiger, Philadelphia, 1988, pp 189-204.
176. **Tobin T**, McDonald J, Ozog FJ, Prange CA: Enzyme linked immunosorbent assay (ELISA): A revolution in equine drug testing. *Equine Veterinary Data*, 9(2):19-31, 1988.
177. **Tobin T**, Stanley SD, Kwiatkowski S, Watt DS, Tai H-H, McDonald J, Prange CA: ELISA based immunoassay tests in post-race testing. In: Breccia A (Ed.), Il Controllo Antidoping dei Cavalli da Corsa (Proc Int'l Seminar Tech Pharmacol Legal Aspects Antidoping Control Racehorses). Bologna, Italy, October 1988, pp 85-104 (163-184).
178. **Tobin T**, Tai H-H, Tai CL, Houtz PK, Dai MR, Woods WE, Weckman TJ, Yang J-M, Chang S-L, Blake JW, McDonald J, Gall R, Wiedenbach P, Bass VD, DeLeon B, Ozog FJ, Green MT, Brockus C, Stobert D, Wie S, Prange CA: Immunoassay detection of drugs in horses. IV. Detection of fentanyl in equine blood and urine by a one-step ELISA assay. *Res Comm Chem Path Pharmacol*, 60(1):97-115, 1988.
179. **Tobin T**, Watt DS, Kwiatkowski S, Tai H-H, Blake JW, McDonald J, Kalita S, Prange CA, Wie S: Non-isotopic immunoassay drug tests in racing horses: A review of their application to pre-and post-race testing, drug quantitation, and human drug testing. *Res Comm Chem Path Pharm*, 62(3):371-395, 1988.
180. **Tobin T**, Wood T: The effects of drugs on racehorse performance. Proc 34th Convent Am Assoc. Equine Pract, San Diego, CA, December 1988, pp 639-650.
181. Weckman TJ, **Tobin T**, Tai H-H, Yang J-M, Wie S, Prange CA, Ozog FJ: ELISA and RIA detection of fentanyl in the horse. Proc 7th Int’l Confer Racing Analysts Vets, Louisville, KY, April 1988, 123-133.
182. Wood T, Tai CL, Henry P, Woods WE, **Tobin T**, Wie S, Prange CA, McDonald J, Ozog FJ, Green MT: The detection of furosemide in equine blood by fluorescence and enzyme-linked immunoassays. Proc 7th Int’l Confer Racing Analysts Vets, Louisville, KY, April 1988, 113-122.
183. Wood TW, Weckman TJ, Woods WE, **Tobin T**, Dougherty J: Detomidine: A preliminary analysis of its duration of action in the horse by variable interval responding. *Eq Vet J*, 20(5):320-322, 1988.
184. Wood T, Weckman TJ, Henry P, Chang S-L, Blake JW, **Tobin T**: Parameters of equine urine pH and methods of acidification. Proc 7th Int’l Confer Racing Analysts Vets, Louisville, KY, April 1988, 259-265.
185. Woods WE, Wang C-J, Houtz PK, Tai H-H, Wood TW, Weckman TJ, Yang J-M, Chang S-L, Blake JW, **Tobin T**, McDonald J, Kalita S, Bass VD, Weege P, DeLeon B, Brockus C, Wie S, Chung RA, Brecht J, Conner J, Dahl P, Lewis E, Prange CA, Ozog FJ, Green M: Immunoassay detection of drugs in racing horses. VI. Detection of furosemide (Lasix®) equine blood by a one-step ELISA and PCFIA. *Res Comm Chem Path Pharmacol*, 61(1): 111-128, 1988.
186. Yang J-M, **Tobin T**, Dai M-R, Watt D, Kwiatkowski S, Tai H-H, Sturma L, Wie S, Prange CA, McDonald J, Ozog FJ: ELISA detection of acepromazine in the horse. Proc 7th Int’l Confer Racing Analysts Vets, Louisville, KY, April 1988, 155-160.
187. Yang J-M, Woods WE, Weckman TJ, Wood TW, Chang S-L, Blake JW, **Tobin T**: The pharmacology, pharmacokinetics, and behavioral effects of diisopropylamine dichloroacetate (DADA) in the horse: A preliminary report. *Gen Pharmacol*, 19(5):683-688, 1988.
188. Blake JW, Woods WE, Goodman JP, **Tobin T**: Pre- and post-race testing for drugs in racing horses. Equine Pharmacology and Therapy: Proc Eleventh Bain/Fallon Memorial Lectures, presented by Australian Equine Vet Assoc., Coffs Harbor, Australia, pp. 115-124, 1989.
189. Kamerling S, Wood TW, DeQuick D, Weckman TJ, Tai C, Blake JW, **Tobin T**: Narcotic analgesics, their detection and pain measurement in the horse: A review. *Eq Vet J*, 21(1):4-12, 1989.
190. Kwiatkowski S, Goodman JP, Stanley SD, Yang J-M, Wood T, Sturma L, Woods WE, Tian Z-G, Bertram S, Tai H-H, Weckman TJ, Chang S-L, Blake JW, Watt DS, **Tobin T**, McDonald J, Wie S, Chung RA, Brecht JM, Conner JC, Dahl PA, Lewis EL, Prange CA: Immunoassay detection of drugs in racing horses. X. Detection of phenylbutazone in equine blood and urine by particle concentration fluoroimmunoassay. *Res Comm Subst Abuse*, 10(2):123-139, 1989.
191. Kwiatkowski S, **Tobin T**, Watt DS: A synthesis of N-substituted β-Alanines: Michael addition of amines to trimethylsilylacrylate. *Synthesis*, 946-949, 1989.
192. Prange CA, Brockus C, Wie S, Chung RA, Brecht JM, Conner JC, Dahl PA, Lewis EL, McDonald J, Kalita S, Kwiatkowski S, Goodman JP, Sturma L, Stanley SD, Yang J-M, Wood T, Henry P, Weckman TJ, Woods WE, Watt DS, Tai H-H, Chang S-L, Blake JW, **Tobin T**: Immunoassay detection of drugs in racing horses. VIII. Detection of cocaine in equine blood and urine by particle concentration fluorescence immunoassay. *Res Comm Subst Abuse*, 10(1):1-14, 1989.
193. Stanley S, **Tobin T**, Wood T: The effects of steroids in racing horses. Pacemaker Update International, 2: 48, 1989.
194. **Tobin T**: Non-steroidal anti-inflammatory drugs: Phenylbutazone and others. Equine Pharmacology and Therapy: Proc Eleventh Bain/Fallon Memorial Lectures, presented by Australian Equine Vet Assoc., Coffs Harbor, Australia, , pp. 13-21, 1989.
195. **Tobin T**: The effects of drugs on equine performance and the use of ELISA tests in equine medication control. [Presented at Cong Wrld Equine Vet Assoc. (Equitana), Essen, West Germany, 1989.] *J Eq Vet Sci*, 9 (3): 160-168, 1989.
196. **Tobin T**: Tranquilizers, analgesics and local anesthetics. Equine Pharmacology and Therapy: Proc Eleventh Bain/Fallon Memorial Lectures, presented by Australian Equine Vet Assoc., Coffs Harbor, Australia, pp. 179-187, 1989.
197. **Tobin T**, Kwiatkowski S, Watt DS, Tai H-H, Tai CL, Woods WE, Goodman JP, Taylor DG, Weckman TJ, Yang J-M, Tai JD, Stanley SD, Wood T, Chang S-L, Blake JW, McDonald J, Wie S, Prange CA, Uboh CE: Immunoassay detection of drugs in biological samples: XI. ELISA and RIA detection of fentanyl, alfentanil, sufentanil and carfentanil in equine blood and urine. *Res Comm Chem Pathol Pharmacol*, 63(1):129-152, 1989.
198. **Tobin T**, Stanley SD: Anabolic steroids: use and excretion data. Equine Pharmacology and Therapy: Proc Eleventh Bain/Fallon Memorial Lectures, presented by Australian Equine Vet Assoc., Coffs Harbor, Australia, pp. 150-157, 1989.
199. **Tobin T**, Wood T: Passing the test: Immunoassay tests proving fast, reliable in detecting equine drugging. Horseman and Fair World, 9, 52-54, 1989.
200. **Tobin T**, Woods WE: Detection times and clearance times for drugs in racing horses. Equine Pharmacology and Therapy: Proc Eleventh Bain/Fallon Memorial Lectures, presented by Australian Equine Vet Assoc., Coffs Harbor, Australia, pp. 105-113, 1989.
201. **Tobin T**, Woods WE: Medication for exercise-induced pulmonary hemorrhage and its effects on other medications. Equine Pharmacology and Therapy: Proc Eleventh Bain/Fallon Memorial Lectures, presented by Australian Equine Vet Assoc., Coffs Harbor, Australia, pp. 134-141, 1989.
202. **Tobin T**, Woods WE: Narcotics and stimulants: how they affect horses. Equine Pharmacology and Therapy: Proc Eleventh Bain/Fallon Memorial Lectures, presented by Australian Equine Vet Assoc., Coffs Harbor, Australia, pp. 49-59,1989.
203. **Tobin T**, Woods WE: Steroidal anti-inflammatory agents and adrenocorticotropic hormone. Equine Pharmacology and Therapy: Proc Eleventh Bain/Fallon Memorial Lectures, presented by Australian Equine Vet Assoc., Coffs Harbor, Australia, pp. 23-30, 1989.
204. Weckman TJ, Woods WE, Wood TW, Tai C, Tai H-H, Blake JW, **Tobin T**: Pharmacologic effects and detection methods of methylated analogs of fentanyl in horses. *Am J Vet Res*, 50(4):502-507, 1989.
205. Wood T, Stanley SD, **Tobin T**: Operant conditioning and its applications in equine pharmacology. *J Equine Vet Sci*, 9(3): 124-130, 1989.
206. Wood T, Tai CL, Taylor DG, Woods WE, Wang C-J, Houtz PK, Tai H-H, Weckman TJ, Yang J-M, Sturma L, Chang S-L, Goodman JP, Stanley SD, Blake JW, Watt DS, **Tobin T**, McDonald J, Wie S, Chung RA, Brecht JM, Conner JC, Dahl PA, Lewis EL, Prange CA: Immunoassay detection of drugs in racing horses. IX. Detection of detomidine in equine blood and urine by radioimmunoassay. *Res Comm Chem Path Pharm*, 63(2):263-279, 1989.
207. Frank M, Weckman TJ, Wood TW, Woods WE, Tai C, Chang S-L, Ewing A, Blake JW, **Tobin T**: Hordenine: Pharmacology, pharmacokinetics and behavioural effects in the horse. *Eq Vet J*, 22(6):437-441, 1990.
208. Jeganathan A, Park S, Kwiatowski S, Yang J, Stanley S, Woods WE, **Tobin T**, Tai H-H, Blake JW, Watt D: The development of a generic fentanyl ELISA test. Proc 43rd Meeting Assoc. Official Racing Chem, 87, 1990.
209. Stanley S, Tai C, Goodman J, Taylor D, Wood T, Woods WE, Yang JM, Kwiatowski S, Tai H-H, Blake JW, Henry P, Chang S-L, **Tobin T**: Immunoassay detection of drugs in racing horses. Detection of reserpine in equine blood and urine by a one-step ELISA. Submitted to Fun App Tox, 1990.
210. **Tobin T**, Blake JW, Potter M, Wood TW (Eds): Proc 7th Int’l Conf Racing Analysts Vets, Lexington, KY, 516 pages, 1990.
211. **Tobin T**, Wood T: ELISA testing in racehorses. Proc. Unione Nazionale L'Incremento Delle Razze Equine. Rome Italy, 1990.
212. Wood TW, Weckman TJ, Henry PA, Chang S-L, Blake JW, **Tobin T**: Equine urine pH: Normal population distribution and methods of acidification. *Eq Vet J*, 22(2):118-121, 1990.
213. Stanley SD, Jeganathan A, Wood TW, Henry PA, Turner S, Woods WE, Green MT, Tai H-H, Watt DS, Blake JW, **Tobin T**: Morphine and etorphine: Detection by ELISA in equine urine. *J Analytical Tox*, 15(6):305-310, 1991.
214. Stanley SD, Woods WE, Elliott D, Chen P-L, Ravard A, Tai H-H, Watt DS, Gerken DF, Sams RA, **Tobin T**: Immunoassay detection of drugs in racing horses. XIX. Detection of benzoylecgonine/cocaine in equine urine by ELISA. Proc 44th Meeting Assoc. Official Racing Chem, Cincinnati, OH, pp. 218-228, 1991.
215. **Tobin T**: Detection times and clearance times for drugs in racing horses. (Lecture Presentation, Paper from Bain Fallon Lectures) Proceedings of the 76th Annual Convention of the Oklahoma Veterinary Medical Association, pp. 31-37, 1991.
216. **Tobin T**: Medication for exercised-induced pulmonary haemorrhage and its effects on other medications. (Lecture Presentation, Paper from Bain Fallon Lectures) Proceedings of the 76th Annual Convention of the Oklahoma Veterinary Medical Association, pp. 43-47, 1991.
217. **Tobin T**: Narcotics and stimulants: How they affect horses. (Lecture Presentation, Paper from Bain Fallon Lectures) Proceedings of the 76th Annual Convention of the Oklahoma Veterinary Medical Association, pp. 25-31, 1991.
218. **Tobin T**: Non-steroidal anti-inflammatory drugs: Phenylbutazone and others. (Lecture Presentation, Paper from Bain Fallon Lectures) Proceedings of the 76th Annual Convention of the Oklahoma Veterinary Medical Association, pp. 13-19, 1991.
219. **Tobin T**: Pre- and post-race testing for drugs in racing horses. (Lecture Presentation, Paper from Bain Fallon Lectures) Proceedings of the 76th Annual Convention of the Oklahoma Veterinary Medical Association, pp. 37-43, 1991.
220. **Tobin T**: Steroidal anti-inflammatory agents and adrenocorticotropic hormone. (Lecture Presentation, Paper from Bain Fallon Lectures) Proceedings of the 76th Annual Convention of the Oklahoma Veterinary Medical Association, pp. 19-25, 1991.
221. **Tobin T**: Tranquilizers, analgesics and local anaesthetics. (Lecture Presentation, Paper from Bain Fallon Lectures) Proceedings of the 76th Annual Convention of the Oklahoma Veterinary Medical Association, pp. 47-59, 1991.
222. Wood T, Terhune T, Dunigan C, Goodman JP, Turner S, Blake JW, Stanley SD, **Tobin T**: Clearance times and the forensic significance of the dietary anthelmintic pyrantel tartrate in performance horses. *J Eq Vet Sci*., 11(4):220-224, 1991.
223. Roth L, Harbison RD, James RC, **Tobin T**, Roberts SM. Cocaine hepatotoxicity: influence of hepatic enzyme inducing and inhibiting agents on the site of necrosis. Hepatology. 15(5):934-40, 1992.
224. Smith JD, Arthur R, Barton J, Bowen E, Byars D, Derksen F, Erickson H, Gowen B, Hinchcliff KW, Manohar M, O'Callaghan M, Pascoe J, Robinson E, Sams RA, Soma LR, Sweeney C, **Tobin T**: Exercise-induced pulmonary hemorrhage findings, Proc of Workshop, Part I. *Equine Pract*, 14(1):19-25, 1992.
225. Smith JD, Arthur R, Barton J, Bowen E, Byars D, Derksen F, Erickson H, Gowen B, Hinchcliff KW, Manohar M, O'Callaghan M, Pascoe J, Robinson E, Sams RA, Soma LR, Sweeney C, **Tobin T**: Exercise-induced pulmonary hemorrhage findings, Proc of Workshop, Part II. *Equine Pract*, 14(2):9-15, 1992.
226. Smith JD, Arthur R, Barton J, Bowen E, Byars D, Derksen F, Erickson H, Gowen B, Hinchcliff KW, Manohar M, O'Callaghan M, Pascoe J, Robinson E, Sams RA, Soma LR, Sweeney C, **Tobin T**: Exercise-induced pulmonary hemorrhage findings, Proc of Workshop, Part III. *Equine Pract*, 14(3):28-31, 1992.
227. Stanley SD, Dressler R, Woods WE, Langemeier J, Goodman JP, Pyrek J, Wood TW, **Tobin T**: The dietary anthelmintic pyrantel tartrate: An analysis of its detection times in geldings, mares and stallions. Short CR (Ed.) Proc 9th Int’l Conf Racing Analysts Vets, New Orleans, LA, 1992, pp 321-326.
228. Stanley SD, Yang J-M, Wood TW, Selonen JS, Watt DS, Tai H-H, **Tobin T**: Detomidine clearance in the horse as determined by ELISA. Short CR (Ed.) Proc 9th Int’l Conf Racing Analysts Vets, New Orleans, LA, 1992, pp 193-201.
229. Stanley S, Yang J, Wood T, Yusufji A, Watt D, Tai H-H, **Tobin T**: ELISA testing: Backgrounds in equine urine, test sensitivity, sample pooling and significance of number of tests. Proc 45th Meeting Assoc Official Racing Chem 308-326, 1992.
230. Stoilov I, Watt S, Cynkowska G, Goodman JP, (**Tobin T**), St Pyrek J: Development of a mass spectral confirmation scheme for the carboxylic acid metabolites of detomidine and medetomidine in horse urine. Submitted to Analytical Toxicology, 1992.
231. **Tobin T**: Kentucky Laboratory takes lead against horse dopers. *Clin Chem News*, 18, pages 1-11, 1992.
232. Wood TW, Stanley SD, Woods WE, Henry PA, Watt DS, **Tobin T**: Evaluation of threshold doses of drug action in the horse using hematocrit values as an indicator. *Res. Comm. Chem. Path. Pharmacol*, 75(2):231-241, 1992.
233. Woods, WE, Stanley DS, Yang J-M, Cook D, Gerkin DF, Detra RL, Sams RA, Jeganathan A, Watt DS, Tai H-H, **Tobin T**: ELISA detection of azaperone in the racehorse. Short CR (ed) Proc 9th Int’l Conf Racing Analysts Vets, New Orleans, LA, 1992, pp 187-192.
234. Yang J-M, Stanley DS, Woods WE, Cook D, Hirsch R, Wood TW, Sams RA, Tai H-H, Watt DS, **Tobin T**: Development of an ELISA for procaine in racing horses and dogs. Short CR (ed) Proc 9th Int’l Conf Racing Analysts Vets, New Orleans, LA, 1992, pp 377-384.
235. Harkins JD, Carney JM, **Tobin T**: Clinical use and characteristics of corticosteroids. Hinchcliff KW, Sams RA (Eds), Vet Clin N Amer: Equine Practice, Drug Use in Performance Horses, Vol 9, Saunders, Philadelphia, 1993, pp 543-562.
236. Stanley SD, Gairola CG, Diana JN, Huffman M, Sadove RC, Woods WE, Kwiatkowski S, Tai H-H, **Tobin T**: Development and characterization of an ELISA for cotinine in biological fluids. *Inhalation Toxicology*, 5(4): 403-413, 1993.
237. Harkins JD, Mundy GD, Woods WE, Rees WA, Thompson KN, **Tobin T**: Determination of the local anesthetic efficacy of procaine, cocaine, bupivacaine and benzocaine. Proc 10th Int’l Conf Racing Analysts Vets, Stockholm, Sweden, p. 303-306, 1994.
238. Queiroz-Neto A, **Tobin T**: Interpretação resultados positivos para cocaína e cafeína em amostras de cavalos de corrida. *Revista Brasileira de Toxicologia*, 7(1/2) p. 5-10, 1994. [KY Ag Exp Sta #95-14-056]
239. Kellon EM, (in consultation with) **Tobin T**: Equine Drugs and Vaccines: A Guide for Owners and Trainers. Breakthrough Press, Ossining, NY, 1994, 336 pp.
240. Stanley S, Wood T, Goodman JP, Henry PA, Woods, WE, Chang S-L, Tai H-H, Watt D, Kwiatkowski S, Blake JW, **Tobin T**: Immunoassay detection of drugs in racing horses: Detection of ethacrynic acid and bumetanide in equine urine by ELISA. *J Analytical Tox*, 18: 95-100, 1994.
241. **Tobin T**: Interim report on the workshop: Testing for Therapeutic Medications, Environmental and Dietary Substances in Racing Horses, Univ. of Kentucky, Lexington, KY, 1994.
242. Hall NC, Yang J-M, Stanley SD, Mundy GD, Kryscio R, Tai H-H, Blake JW, Woods WE, **Tobin T**: Number of negative tests required to exclude specific levels of agent abuse in equine forensic chemistry. Submitted to Equine Practice, 1995.
243. Harkins JD, Stanley SD, Mundy GD, Carney JM, Sams RA, Woods WE, **Tobin T**: A review of the Pharmacology, pharmacokinetics, and regulatory control in the US of local anesthetics in the horse. *J Vet Pharmacol Therap*, 18: pp 397-406, 1995.
244. Harkins JD, **Tobin T**: A review of the methodologies used to determine the highest no-effect doses (HNEDs) for medications in horses. Proc Testing Therap Med Environ Diet Subst Racing Horses, Lexington, KY, 1995, pp 169-174.
245. Harkins JD, **Tobin T**: Racing horses, nitroglycerin and exercise-induced pulmonary hemorrhage. *Equine Vet J*, 27(4):240-241, 1995.
246. Sendlein LVA, Birge WJ, Blomquist GC, Dinger JS, Huffsey RR, Horstman SW, Kercher MD, McGinley P, Short DC, Struttman T, Taylor L, **Tobin T**, Dunn D, Naugle BI: Final summary report: Identification of appropriate standards for corrective action for a release from petroleum underground storage tanks. Submitted to Petroleum Underground Storage Tank Environmental Assurance Fund Commission, 1995.
247. Sendlein, Lyle V.A.; Birge, Wesley J.; Blomquist, G.; Dinger, James S.; Huffsey, Ralph R.; Guthrie, Robert D.; Horstman, Sanford W.; Kercher, M. D.; McGinley, Paul M.; Short, David C.; Struttmann, T. W.; Taylor, Larry C.; Tobin, Thomas; Dunn, David; and Naugle, Burl, "Kentucky UST Field Manual" (1993). KWRRI Research Reports. 225. <https://uknowledge.uky.edu/kwrri_reports/225>
248. Sendlein, Lyle V.A.; Birge, Wesley J.; Blomquist, G.; Dinger, James S.; Huffsey, Ralph R.; Guthries, Robert; Horstman, Sanford W.; Kercher, M. D.; McGinley, Paul M.; Short, David C.; Struttmann, T. W.; Taylor, Larry; Tobin, Thomas; Dunn, David; and Naugle, Burl, "Status Report: Identification of Appropriate Standards for Corrective Action for a Release from Petroleum Underground Storage Tanks, Volume 1" (1993). KWRRI Research Reports. 227. <https://uknowledge.uky.edu/kwrri_reports/227>
249. Blomquist, G.; Sendlein, Lyle V. A.; Tobin, Thomas; Struttmann, T. W.; Dinger, James S.; McGinley, Paul M.; Naugle, Burl; Guthries, Robert; and Huffsey, Ralph R., "Research Reports From Status Report: Identification of Appropriate Standards for Corrective Action for a Release from Petroleum Underground Storage Tanks" (1994). KWRRI Research Reports. 223. https://uknowledge.uky.edu/kwrri\_reports/223
250. Rees WA, Chambers TM, Fenger CK, Harkins JD, Blouin RA, Holland RE, **Tobin T**: Pharmacokinetics and bioavailability of amantadine in the horse. Proc 41st Convent Am Assoc. Equine Pract, Lexington, KY, 1995, pp270-271.
251. Harkins JD, Mundy GD, Stanley SD, Woods We, Rees WA, Thompson KN, **Tobin T**: Determination of highest no-effect doses (HNEDs) for local anesthetic responses to procaine, cocaine, bupivacaine, and benzocaine in Thoroughbred mares. Proc 41st Convent Am Assoc. Equine Pract, Lexington, KY 1995, pp163-165.
252. Stanley SD, Sams RA, Harkins JD, Mundy GD, Boyles J, Woods WE, **Tobin T**: Frequency distribution of post-race urine pH from thoroughbreds and Standardbreds: Research and regulatory significance. *Equine Vet J*, 27:471-473, 1995.
253. **Tobin T**: Fifties rules, nineties testing: The need for thresholds for therapeutic medications. *Racing Update*, 18 (10):89-92, 1995.
254. **Tobin T**, Harkins JD: Thresholds for high potency drugs: Plasma or urinary thresholds? Proc Testing Therap Med Environ Diet Subst Racing Horses, Lexington, KY, 1995, pp 185-189.
255. **Tobin T**, Harkins JD, Woods WE, Hall NC, Queiroz-Neto A, Stanley SD, Mundy GD: Testing for drugs, medications and other substances in racing horses. Proc for the Short Course: Recent Advances in Equine Nutrition, Kentucky Equine Research, Inc., Versailles, KY, 1995, pp 1-26. [KY Ag Exp Sta #95-14-057]
256. Harkins JD, Stanley S, Mundy GD, Sams RA, Woods, WE, Rees WA, Thompson K, and **Tobin T**: Determination of Highest No-Effect Doses (HNEDs) for local anesthetics. Proc 41st Convent Am Assoc. Equine Pract, pp 163-165, 1995.
257. Harkins JD, Stanley S, Mundy GD, Sams RA, Woods WE, Arthur R, Boyles J, and **Tobin T**: Significance of Procaine residues in post-race urine samples. Proc 41st Convent Am Assoc. Equine Pract, pp 168-169, 1995.
258. Harkins JD, Stanley S, Mundy GD, Sams RA, Woods WE, Richardson DR, and **Tobin T**: Character and duration of pharmacological effect of Isoxsuprine. Proc 41st Convent Am Assoc. Equine Pract, pp 166-167, 1995.
259. **Tobin T**, Mundy GD, Stanley SD, Sams RA, Crone D (Eds): Testing for Therapeutic Medications, Environmental and Dietary Substances in Racing Horses, Proceedings of Workshop, Lexington, KY, 220 pages, 1995. [KY Ag Exp Sta #95-14-058]
260. Sams RA, Gerkin, DF, Detra RL, Wood WE, Stanley SD, **Tobin T**, Yang J-M, Tai H-H, Jegananthan A, Watt DS: Identification of metabolites of azaperone in horse urine, *J Pharm Sci*. 85 pp 79-84, 1996.
261. Stanley DS, Mundy GD, Woods WE, Harkins JD, Rees WA, Boyles J, Sams RA, **Tobin T**: ELISA detection of cocaine and cocaine metabolites in equine urine, saliva and serum. Manuscript in progress, 1996.
262. Harkins JD, Mundy GD, Stanley SD, Woods WE, Rees WA, Thompson KN, **Tobin T**: Determination of highest no-effect doses (HNEDs)for the local anesthetic responses to procaine, cocaine, bupivacaine and benzocaine. *Equine Vet J*, 28:30-37, 1996.
263. Harkins JD, Mundy GD, Stanley SD, Woods WE, Sams RA, Richardson DR, **Tobin T**: Character and duration of pharmacologic effects of intravenous Isoxsuprine. *Equine Vet J*, 28(4):320-326, 1996.
264. Harkins JD, Mundy GD, Stanley SD, Woods WE, Boyles J, Arthur RA, Sams RA, and **Tobin T**: Regulatory significance of procaine residue in plasma and urine samples: Preliminary communication, *Equine Vet J*, 28(2), 121-125, 1996.
265. Edgar T, **Tobin T**, Watt D, Tai H-H, Schroedter D, Ice JT, Bass S: ELISA assay for caffeine. Proc 11th Intl'n Conf Racing Analysts Vets, Brisbane, Australia, 1996, pp 478-480.
266. Harkins JD, Queiroz-Neto A, West D, Mundy GD, **Tobin T**: Quantitation of the locomotor effect of therapeutic medication in a behavior chamber. Proc 11th Intl'n Conf Racing Analysts Vets, Brisbane, Australia, 1996, pp 117-120.
267. Edgar T, **Tobin T**, Tai H-H, Bass S, Ice JT, Schroedter D: ELISA assay for flunixin. Proc 11th Int’l Conf Racing Analysts Vets, Brisbane, Australia, 1996, pp 466-469.
268. Edgar T, **Tobin T**, Tai H-H, Bass S, Ice JT, Schroedter D: ELISA assay for methocarbamol. Proc 11th Int’l Conf Racing Analysts Vets, Brisbane, Australia, 1996, pp.459-462.
269. Stanley SD, Troppmann A, Carter W, Sams RA, Harkins JD, Mundy GD, Boyles J, Woods WE, **Tobin T**: Frequency distributions of pH values in post-race urine samples from Standardbred and Thoroughbred horses. Proc 11th Int’l Conf Racing Analysts Vets, Brisbane, Australia, 1996, pp 442-444.
270. Foster CN, Boyles J, Crone DL, Mundy GD, Sams RA, Stanley SD, **Tobin T**: Response to a survey among international racing authorities on therapeutic medications, environmental and dietary substances in racehorses. Proc 11th Int’l Conf Racing Analysts Vets, Brisbane, Australia,1996, pp 46-55.
271. Rees WA, Harkins JD, Woods WE, Blouin RA, Lu M, Fenger C, Holland RE, **Tobin T**, Chambers TM: Chemotherapy for equine influenza: Overview of the pharmacology and side effects of amantadine and rimantadine in the horse. Proc 11th Int’l Conf Racing Analysts Vets, Brisbane, Australia, 1996, pp 355-357.
272. Rees WA, Kwiatkowski S, Stanley SD, Granstrom DE, Yang J-M, Gairola CG, Drake D, Glowczyk J, Woods WE, **Tobin T**: The development and characterization of an ELISA for *trans*-3'-hydroxycotinine, a biomarker for mainstream and sidestream smoke exposure. Bengston DA, Henshel DS (Eds), Environmental Toxicology and Risk Assessment: Biomarkers and Risk Assessment (5th Vol), Am Soc Testing Materials, Philadelphia, 1996, pp 149-162. [KY Ag Exp Sta #92-4-167]
273. Woods WE, Mundy GD, Stanley SD, Sams RA, Harkins JD, Carter W, Boyles J, Rees WA, Bass S, **Tobin T**: Detection and quantification of cocaine and its metabolites in equine body fluids after administration by different routes. Proc 11th Int’l Conf Racing Analysts Vets, Brisbane, Australia, 1996, pp 503-507. [KY Ag Exp Sta # 96-14-080]
274. Harkins JD, and **Tobin T**: The pharmacologic effects of Isoxsuprine. *Pferdeheilkunde*, 12: 428-430, 1996.
275. Harkins JD, Smith RA, **Tobin T**: Poisonous plants and feed related poisoning in horses. *The Veterinarian’s Practical Reference to Equine Nutrition*, 135-165, 1997.
276. Harkins JD, **Tobin T**, Mundy GD, Harrison L, Poonacha KB: Exercise-induced pulmonary hemorrhage: A Review of the etiology and pathogenesis. *Equine Pract*., 19 (1): 22-28, 1997. [KY Ag Exp Sta # 95-14-182]
277. Rees WA, Harkins JD, Woods WE, Blouin RA, Chambers T, Carter WG, Holland R, Fenger C, **Tobin T**: Amantadine and equine influenza: Pharmacology, pharmacokinetics and neurological effects in the horse. E*quine Vet J*, 29(2): 104-110, 1997. [KY Ag Exp Sta #95-14-134]
278. Harkins JD, Mundy GD, Stanley SD, Sams RA, **Tobin T**: Lack of local anesthetic efficacy of Sarapin in an abaxial sesamoid block model. *J Vet Pharmacol Therap* 20, 229-232, 1997.
279. Sleeman JM, Carter WG, **Tobin T**, Ramsay EC; Immobilization of domestic goats (Capra hircus) using orally administered carfentanil citrate and detomidine HCL. *J Zoo Wildlife Med*, 28 (2): 158-165, 1997.
280. Harkins JD, Mundy GD, Stanley S, Woods WE, Lehner A. Rees WA, Dirikolu L, Bass S, Karpiesiuk W, Carter WG, Boyles J, **Tobin T**: Lidocaine in the horse: Its pharmacological effects and their relationship to analytical findings. *J Vet Pharmacol Therap* 21:462-476, 1998.
281. **Tobin T**, Mundy GD, Stanley SD, Sams R, Jack RA: The Commission Veterinarian Equine Medical Director: A Short Course, Nov. 28- Dec. 1, 1995. In Preparation for Publ. 1997.
282. Harkins JD, Carney JM, Meier M, Laek SC, **Tobin T**: Effect of α-phenyl-*tert*-butylnitrone on endotoxin toxemia in horses. *Vet Human Toxicol* 39 (5) October 1997: pp 268-271. [KY Ag Exp Sta #95-14-077]
283. Queiroz-Neto A, Zamur G, Goncalves SC, Carregaro AB Mataqueiro MI, Harkins JD, **Tobin T**: Characterization of the antinociceptive and sedative effect of amitraz in horses. *J Vet Pharmacol* *Therap*, 21(5):400-405, 1997. [KY Ag Exp Sta #97-14-137].
284. **Tobin T**, Mundy GD, Rees WA, Harkins JD, Woods WE, Lehner A, Karpiesiuk W, Dirikolu, Boyles J, Carter W: Review of a consequence of highly sensitive drug testing: The need for data on analytical-pharmacological relationships for therapeutic medication. Proc 43rd Convent Am Assoc. Equine Pract, Phoenix, AZ, 1997, pp 215-219.
285. Granstrom DE, McCrillis S, Wulff-Strobel C, Baker CB, Carter W, Harkins JD, **Tobin T**, Saville WJ: Diclazuril and equine protozoal myeloencephalitis. Proc 43rd Convent Am Assoc. Equine Pract, Phoenix, AZ, 1997, pp13-14.
286. **Tobin T**, Dirikolu L, Harkins JD, Granstrom DE, Carter W, Lehner A, Rees WA: Preliminary pharmacokinetics of diclazuril and toltrazuril in the horse. Proc 43rd Convent Am Assoc. Equine Pract, Phoenix, AZ, 1997, pp15-16.
287. Harkins JD, **Tobin T**, Queiroz-Neto A: Development of an equine behavior chamber and effects of amitraz, detomidine and acepromazine on spontaneous locomotor activity. Proc 43rd Convent Am Assoc. Equine Pract, Phoenix, AZ, 1997, pp227-228.
288. Queiroz-Neto A, Zamur G, Carregaro AB, Mataqueiro MI, Salvadori MC, Azevedo CP, Harkins JD, **Tobin T**: Effects of caffeine on locomotor activity of horses: Determination of the no-effect threshold. *J Applied Toxicol*, 21:229-234, 2001.
289. Rees WA, Holland RE, Dirikolu L, **Tobin T**, Chambers TM: Therapeutic efficacy of rimantadine HCl in experimentally induced influenza: An illness in horses. Proc 43rd Convent Am Assoc. Equine Pract, Phoenix, AZ, 1997, pp390-391.
290. Harkins, JD, Mundy GD, Karpiesiuk W, Woods WE, Dirikolu L, Carter WG, Boyles J, **Tobin T**: Bupivacaine: Pharmacological effects, analytical detection, and regulatory significance in performance horses. In press, 1999.
291. Woods WE, Lehner A, Karpiesiuk W, Harkins JD, **Tobin T**: Detection and quantitation of 3-hydroxymepivacaine in horse urine. Proc 12th Intl’n Conf Racing Analysts Vets, Vancouver, Canada, 1998, pp324-328. [KY Ag Exp Sta #98-14-35].
292. Harkins JD, Mundy GD, Stanley SD, Woods WE, Sams RA, Richardson DR, Grambow SC, **Tobin T**: Absence of detectable pharmacological effects after oral administration of Isoxsuprine. *Equine Vet J* 30(4):294-299, 1998. [KY Ag Exp Sta #96-14-142].
293. Lehner A, Woods WE, Harkins JD, Karpiesiuk W, Boyles J, Carter WG, Dirikolu L, **Tobin T**: Detection and quantitation of 3-hydroxybupivacaine in horse urine. Proc 12th Intl’n Conf Racing Analysts Vets, Vancouver, Canada, 1998, pp287-291. [KY Ag Exp Sta #98-14-48]
294. Harkins JD, Karpiesiuk W, Woods WE, Lehner A, Mundy GD, Rees WA, Dirikolu L, Bass S, Carter WG, Boyles J, **Tobin T**: Mepivacaine: Its pharmacological effects and their relationship to analytical finding in the horse. *J. Vet. Pharmacol. Therap*, 22:107-121, 1999. [KY Ag Exp Sta #98-14-148].
295. **Tobin T**: Medication control from 1900 to the Present. HBPA Medication Booklet, 1998, pp. 23-29. [KY Ag Exp Sta #97-14-138].
296. Rees WA, Harkins JD, Lu M, Blouin RA, Holland RE, Lehner F, Chambers TM, **Tobin T**: Rimantadine and equine influenza: Pharmacology, pharmacokinetics, and therapeutic efficacy in the horse. *Equine Vet J*, 29(2):104-110, 1996. [KY Ag Exp Sta #95-14-134].
297. Harkins JD, Mundy GD, Stanley SD, Rees WA, **Tobin T**: An overview of the methylxanthines and their regulation in the horse. *Equine Practice*, 20(1):10-16, 1998. [KY Ag Exp Sta #96-14-084].
298. Karpiesiuk W, Lehner A, Woods WE, **Tobin T**: Equine drug metabolites and standards. Distributed, 1998. Booklet published by Gluck Equine Research Center, Lexington, KY, 1998.
299. **Tobin T**, Lehner A, Woods WE, Karpiesiuk W, Harkins JD: 1998 “Detection and quantitation of 3-hydroxylidocaine in horse urine. Page 239 Proc 12th Int’l Conf Racing Analysts Vets, Vancouver, Canada, 1998.
300. Dirikolu L, Lehner A, Woods WE, Bentz B, Harkins JD, Carter W, Granstrom DE, **Tobin T**: Detection, quantification and preliminary pharmacokinetics of diclazuril in the horse. Proc 12th Int’l Conf Racing Analysts Vets, Vancouver, Canada, 1998, pp240-244. [KY Ag Exp Sta #98-14-39].
301. **Tobin T**, Saville W, Carter W, Cohen N, Divers T: The interim report on Gluck Equine Research Center workshop on Equine Protozoal Myeloencephalitis: Testing and treatment. Manuscript distributed to workshop participants, 1998. [KY Ag Exp Sta #98-14-42].
302. Dirikolu L, Lehner AF, Nattrass C, Bentz B, Woods WE, Carter W, Karpiesiuk W, Boyles J, Harkins JW, Granstrom DE, **Tobin T**: Diclazuril in the horse: Its identification, detection and preliminary pharmacokinetics. *J Vet Pharm Therap*, 22:374-379, 1999. [KY Ag Exp. Sta #98-14-70].
303. **Tobin T**, Harkins JD, Sams RA: Testing for therapeutic medications: Analytical/pharmacological relationships and the need for “limitations” on the sensitivity of testing for certain agents. *J Vet Pharm Therap*, 22:220-233. 1999. [KY Ag Exp Sta #98-14-134]. [Cited by 17](https://scholar.google.com/scholar?cites=8539386492787590682&as_sdt=4000005&sciodt=0,18&hl=en)
304. Harkins JD, **Tobin T**: Lack of local efficacy of fentanyl in the abaxial sesamoid block model. *J Vet Pharm Therap*, 22:52-55, 1999 [KY Ag Exp Sta #98-14-85].
305. Heller TA, **Tobin T**, Karpiesiuk W, Tai H-H, Harkins JD, Magsig SE, Schroedter DE: 1998 ELISA assay for fluoxetine. Page 263 Proc 12th Int’l Conf Racing Analysts Vets, Vancouver, Canada, 1998.
306. Bentz BG, Dirikolu L, Carter WG, Saville W, Bernard WV, Wulff-Strobel C, McCrillis S, Reed S, Granstrom DE, **Tobin T**: Clinical report on diclazuril and equine protozoal myeloencephalitis (EPM). *Equine Vet. Education,* 2:258-263, 2000 [KY Ag Exp Sta #98-14-159].
307. Bentz BG, Carter WG, **Tobin T**: Equine protozoal myeloencephalitis (EPM): Review of a diagnostic approach. *Compendium on Continuing Education for Practicing Veterinarians*, 21:975-981, 1999. [KY Ag Exp Sta #98-14-158].
308. Harkins JD, Karpiesiuk W, **Tobin T**, Dirikolu L, Lehner AF: Identification of hydroxyropivacaine glucuronide in equine urine by ESI+/MS/MS. *Can J Vet Res,* 64(3):178-183. [KY Ag. Exp. Sta#98-14-151].
309. Short CR, Sams RA, Soma LR, **Tobin T**: The regulation of drugs and medicines in horse racing in the United States. The Association of Racing Commissioners International Uniform Classification of Foreign Substances Guide. *J Vet Pharm Therap*. 21, 144-153, 1998. [Cited by 6](https://scholar.google.com/scholar?cites=8873975843366721285&as_sdt=4000005&sciodt=0,18&hl=en)
310. Harkins JD, Karpiesiuk W, Woods WE, Lehner A, Dirikolu L, Carter W, Boyles J, **Tobin T**: Ropivacaine in the horse: Its pharmacological responses, urinary detection and mass spectral confirmation. *J Vet Pharm Therap,* 24:89-98, 2001. [KY Ag. Exp. Sta #98-14-153].
311. **Tobin T**: Equine Drug Testing: How it works, HBPA Medication Booklet, pp. 42-51, 1998 [KY Ag. Exp. Sta. #9814-26].
312. **Tobin T**: Dietary, environmental, and endogenous substances in horses. In Medication Reference Guide, National Horsemen’s Benevolent & Protective Association, pp 52-58, 1998.
313. **Tobin T**, Harkins JD, Carter W, Sams R Stanley S: An interim report on the Testing Integrity Program seminar “Furosemide in the Horse: Its Actions, Effects and Regulatory Control”. The New Orleans Hilton, Riverside, CA, March 1998.
314. Bosken JM, Lehner AF, Hunsucker A, Harkins JD, Woods WE, Karpiesiuk W, Carter WG, Boyles J, Fisher M, **Tobin T**: Direct MS-MS identification of Isoxsuprine-glucuronide in post-administration equine urine. *Can J Vet Res*, 64:112-116, 2000. [KY Ag. Exp. Sta #99-14-3]
315. Dirikolu L, Lehner AF, Karpiesiuk W, Harkins JD, Woods WE, Carter WG, Boyles J, Fisher M, **Tobin T**: Identification of lidocaine and its metabolites in post-administration equine urine by ELISA and MS-MS. *J Vet Pharm Therap*, 23:215-222, 2000. [KY Ag. Exp. Sta #00-14-91]
316. **Tobin T**: Equine Forensic Science: An Overview of the Scientific Methods. Booklet Published by Gluck Equine Research Center, Lexington, KY, 1998. [KY Ag. Exp. Sta #98-14-192]
317. Boyles J, Woods WE, Harkins JD, Fisher M, Uboh C, **Tobin T**: Procedures and quality assurance aspects of the Testing Integrity Program. Submitted to Proceedings of the 52nd Meeting of the Association of Official Racing Chemists, New Orleans, LA, 1999. [KY Ag. Exp. Sta #99-14-27]
318. Harkins JD, et al: Clenbuterol in the horse: A Preliminary analytical report. Submitted to Proceedings of the 52nd Meeting of the Association of Official Racing Chemists, New Orleans, LA, 1999.
319. Lehner AF, Hunsucker A, Bosken JM, Harkins JD, Woods WE, Karpiesiuk W, Almeida P, Dirikolu L, Carter WG, Boyles J, Holtz C, Fisher M, **Tobin T**: Further characterization of equine Isoxsuprine metabolites by electrospray ionization tandem mass spectrometry. Manuscript in preparation, 2003.
320. Carregaro AB, Woods WE, Queiroz-Neto A, **Tobin T**: Comparison of the quantification of caffeine in human plasma by gas chromatography and ELISA. *Braz J Med Biol Res*, 34:821-824, 2001. [KY Ag Exp Sta #01-14-116]
321. Harkins JD, Robinson NE, Woods WE, Lehner AF, Smith MD, Gates RS, Fisher M, **Tobin T**: Intratracheal clenbuterol in the horse: Its pharmacological efficacy and analytical detection. *J Vet Pharmacol Therap*, 23:251-260, 2000. [KY Ag. Exp. Sta #99-14-167]
322. Lehner AF, Jacobs J, Almeida P, Harkins JD, Karpiesiuk W, Woods WE, Carter W, Boyles J, Dirikolu L, Bosken J, Holtz C, **Tobin T**: Qualitative identification of celecoxib in equine samples. Manuscript in preparation, 2003.
323. Lehner AF, Almeida P, Jacobs J, Harkins JD, Karpiesiuk W, Woods WE, Dirikolu L, Bosken JM, Carter WG, Boyles J, Holtz C, Heller T, Nattrass C, Fisher M, **Tobin T**: Remifentanil in the horse: Identification and detection of its major urinary metabolite. *J Analytical Toxicol*, 24:309-315, 2000. [KY Ag. Exp. Sta #99-07-145]
324. Ramsey EC, Carter W, Geiser D, **Tobin T**: Serum concentrations and effects of detomidine delivered orally to horses in three different mediums. *Vet Anaesthesia and Analgesia*, 29:219-222, 2002. [KY Ag Exp Sta #02-14-018]
325. Harkins JD, Woods WE, Lehner AF, Karpiesiuk W, Hughes C, Gates RS, Fisher M, **Tobin T**: Pyrilamine in the horse: II. Detection and pharmacokinetics of pyrilamine and its major urinary metabolite. Manuscript in preparation, 2001.
326. Xie H, Ott EA, Harkins JD, **Tobin T**, Colahan PT. Influence of electroacupuncture stimulation on pain threshold in horses and its mode of actions. Journal of Equine Veterinary Science. 21(12): 591-600, 2001
327. Harkins JD, Woods WE, Lehner AF, Fisher M, **Tobin T**: Clenbuterol in the horse: Urinary concentrations determined by ELISA and GC/MS after clinical doses. *J Vet Pharmacol Therap*, 24:7-14, 2001. [KY Ag. Exp. Sta #00-14-49]
328. Harkins, JD, Karpiesiuk W, Woods WE, Lehner A, Rees WA, Dirikolu L, Bass S, Carter WG, Boyles J, **Tobin T**: Ropivacaine in the horse: its pharmacological responses, urinary detection and mass spectral confirmation. *J Vet Pharmacol Therap*, 24:89-98, 2001.
329. Lehner AF, Harkins JD, Karpiesiuk W, Woods WE, Robinson NE, Dirikolu L, Fisher M, **Tobin T**: Clenbuterol in the horse: Confirmation and quantitation of serum clenbuterol by LC-MS-MS after oral and intratracheal administration. *J Analyt Toxicol*, 25:280-287, 2001. [KY Ag. Exp. Sta #00-14-122]
330. Woods WE, Harkins JD, Lehner AF, Dirikolu L, Karpiesiuk W, Boyles J, Carter WG, Fisher M, Heller T, **Tobin T**: Detection and disposition of pyrilamine and its metabolite O-desmethylpyrilamine in equine blood and urine: A preliminary report. Proc 13th Int’l Conf Racing Analysts Vets, Cambridge, UK, 2000, pp 472-477. [KY Ag. Exp. Sta # 00-14-85]
331. Dirikolu L, Lehner AF, Jacobs J, Woods WE, Karpiesiuk W, Harkins JD, Carter WG, Boyles J, Hughes C, Bosken JM, Holtz C, Nattrass C, Fisher M, **Tobin T**: Celecoxib in the horse: Its recovery, mass spectrometric identification, disposition and major urinary metabolites. Proc 13th Int’l Conf Racing Analysts Vets, Cambridge, UK, 2000, pp162-170. [KY Ag. Exp. Sta #00-14-101]
332. Carter WG, Walters K, Chamblin T, **Tobin T**: A review of Association of Racing Commissioners International class 1, 2 and 3 medication violations and penalties for 1995-1999 in North America. Proc 13th Int’l Conf Racing Analysts Vets, Cambridge, UK, 2000, pp303-309.
333. Holtz C, Drinnon R, Gates R, Hughes CG, Woods WE, Sweet A, Dirikolu L, Bosken JM, Harkins JD, Lehner AF, Carter WG, Karpiesiuk W, Boyles J, Fisher MG, **Tobin T**: The postural signature device: A non-invasive tool for identifying medication thresholds. A preliminary report. Proc 13th Int’l Conf Racing Analysts Vets, Cambridge, UK, 2000, pp46-52. [KY Ag. Exp. Sta #00-14-110]
334. Lehner AF, Almeida P, Harkins JD, Karpiesiuk W, Woods WE, Dirikolu L, Bosken JM, Carter WG, Boyles J, Holtz C, Heller T, Nattrass C, Fisher M, **Tobin T**: Identification and detection of the major equine urinary metabolite of remifentanil. Proc 13th Int’l Conf Racing Analysts Vets, Cambridge, UK, 2000, pp465-471. [KY Ag. Exp. Sta #00-14-104]
335. Lehner AF, Woods WE, Karpiesiuk W, Harkins JD, Fisher M, **Tobin T**: A highly sensitive detection method for clenbuterol in equine serum. Proc 13th Int’l Conf Racing Analysts Vets, Cambridge, UK, 2000, pp420-426. [KY Ag. Exp. Sta #00-14-103]
336. Lehner AF, Hughes C, Woods WE, Karpiesiuk W, Harkins JD, Dirikolu L, Holtz C, Bosken JM, Carter WG, Boyles J, Booze R, Mactutus C, Fisher M, **Tobin T**: A liquid chromatographic-electrospray tandem MS/MS method for quantitation of equine cocaine metabolites. Proc 13th Int’l Conf Racing Analysts Vets, Cambridge, UK, 2000, pp413-419. [KY Ag. Exp. Sta #00-14-105]
337. Patrick S, Heller T, **Tobin T**, Bratton C, Bass S: Fentanyl group ELISA for the detection of remifentanil and other narcotic analgesics. Proc 13th Int’l Conf Racing Analysts Vets, Cambridge, UK, 2000, pp337-340.
338. Karpiesiuk W, Lehner AF, **Tobin T**: Synthesis and characterization of deuterated clenbuterol and two equine metabolites. Proc 13th Int’l Conf Racing Analysts Vets, Cambridge, UK, 2000, 427-429. [KY Ag. Exp. Sta #01-14-8]
339. Bosken JM, **Tobin T**, Mundy GD, Fisher M, Banks RO: Comparison of specific gravity and osmolality in post-race urine of furosemide-treated and control Thoroughbred horses. Proc 13th Int’l Conf Racing Analysts Vets, Cambridge, UK, 2000, pp345-349.
340. Dirikolu L, Bentz BG, Lehner AF, Woods WE, Harkins JD, Karpiesiuk W, Carter WG, Boyles J, Granstrom D, **Tobin T**: New therapeutic approaches to equine protozoal myeloencephalitis: Clinical pharmacology and apparent efficacy of diclazuril, toltrazuril and sulfonotoltrazuril. Submitted to *J Vet Pharmacol Therap*, 2001. [KY Ag. Exp. Sta #00-14-102]
341. **Tobin T**, Harkins JD, Fisher M: ‘No-effect limits’: An overview and a pharmacological approach. Proc 13th Int’l Conf Racing Analysts Vets, Cambridge, UK, 2000, pp36-42. [KY Ag. Exp. Sta #00-14-198]
342. Hale ND, **Tobin T**, Tai H-H, Harkins JD, Heller T, Schroedter DE, Bratton C, Mayer B: ELISA assay for stanozolol. Proc 13th Int’l Conf Racing Analysts Vets, Cambridge, UK, 2000, pp341-344.
343. Harkins JD, Dirikolu L, Lehner AF, Hughes C, Schroedter D, Mayer B, Bratton C, Fisher M, **Tobin T**: The detection and biotransformation of guanabenz in horses: A preliminary report. *Vet* *Ther*, 4(2): 197-209, 2003. [KY Ag. Exp. Sta. #01-14-113]
344. Harkins JD, Lehner AF, Woods WE, **Tobin T**: Guanabenz in the horse: Clinical effects and its comparison with other α2 agonists. Manuscript in preparation, 2003.
345. Dirikolu L, Lehner AF, Hughes C, Woods WE, Karpiesiuk W, Harkins JD, Boyles J, Granstrom DE, **Tobin T**: Toltrazuril sulfone in the horse: Its identification, detection and pharmacokinetics. Manuscript in preparation, 2001.
346. Dirikolu L, Lehner AF, Karpiesiuk W, Hughes C, Woods WE, Carter WG, Boyles J, Harkins JD, **Tobin T**: Detection, quantification, metabolism and behavioral effects of selegiline in the horse. *Veterinary Therapeutics*, 4(3):257-268, 2003. [KY Ag. Exp. Sta. #01-14-186]
347. Bosken J, Lehner AF, Woods WE, Hughes CG, Harkins JD, Boyles J, **Tobin T**: A GC/MS method for the determination of Isoxsuprine in biological fluids of the horse utilizing electron impact ionization. Manuscript submitted to *J Anal Tox*, 2003.
348. Dirikolu L, Lehner AF, Hughes C, Woods WE, Karpiesiuk W, Harkins JD, Boyles J, Granstrom DE, **Tobin T**: Sodium salt formulations of diclazuril and toltrazuril sulfone in the horse: Identification, synthesis, detection and pharmacokinetic­s. Manuscript in preparation, 2001.
349. Dirikolu L, Mollett BA, Woods WE, Lehner AF, Karpiesiuk W, Boyles J, Harkins JD, Bratton C, **Tobin T**: Apparent ELISA detection times for albuterol after administration with the Torpex equine inhaler device. *Vet Ther* **3**(3):297-307, 2002. [KY Ag Exp Sta #02-14-30]
350. Lehner AF, Craig AM, Fannin N, Bush L, **Tobin T**: Fragmentation patterns of selected ergot alkaloids by electrospray ionization tandem quadrupole mass spectrometry. *J Mass Spec*, 39(11):1275-862003. [KY Ag Exp Sta #02-14-60]
351. Dirikolu L, Mollett BA, Woods WE, Bratton C, Lehner AF, Karpiesiuk W, Hughes C, Boyles J, Harkins JD, Troppmann A, **Tobin T**: ELISA “detection times” of albuterol after Torpex™ administration: a preliminary report.” Pages 337-342 Proc 14th Int’l Conf Racing Ana­lysts Vets, Orlando, FL, 2002.
352. Hughes C, Lehner AF, Crutchfield J, Woods WE, Harkins JD, Karpiesiuk W, Dirikolu L, Sebastian M, Troppmann A, Boyles J, Bosken J, Harrison L, **Tobin T**: Analytical detection and “normal” population data of cyanide and thiocyanate in equine blood and serum. P 376-382 Proc 14th Int’l Conf Racing Ana­lysts Vets, Orlando, FL, 2002. [KY Ag Exp Sta #02-14-168]
353. Harkins JD, **Tobin T**: Pharmacodynamics of guanabenz and related α2 agonists. Page 34 Proc 14th Int’l Conf Racing Ana­lysts Vets, Orlando, FL, 2002. [Abstract only]
354. Lehner AF, Hughes C, Woods WE, Harkins JD, Karpiesiuk W, Dirikolu L, Bosken J, Boyles J, Troppmann A, Fisher M, **Tobin T**: Proposed methodology for the detection of Oxyglobin® in equine plasma. In press, Proc 14th Int’l Conf Racing Ana­lysts Vets, Orlando, FL, 2002. [KY Ag Exp Sta #02-14-169]
355. Karpiesiuk W, Lehner AF, Dirikolu L, Fisher M, **Tobin T**: Synthesis and characterization of deuterated standard of furosemide (Salix®). In press, Proc 14th Int’l Conf Racing Ana­lysts Vets, Orlando, FL, 2002. [KY Ag Exp Sta #02-14-181]
356. Dirikolu L, Lehner AF, Hughes C, Karpiesiuk W, Camargo FC, Harkins JD, Woods WE, Bosken J, Boyles J, Troppmann A, Fisher M, **Tobin T**: Detection, quantification and pharmacokinetics of furosemide in horses: a preliminary report. Page 29-34 Proc 14th Int’l Conf Racing Ana­lysts Vets, Orlando, FL, 2002. [Ky Ag Exp Sta #03-14-070]
357. Casey PJ, Champion ZJ, Mansell KB, **Tobin T**: Stallion influence on reproductive loss during Mare Reproductive Loss Syndrome (MRLS) in Lexington, Kentucky 2001. Abstract submitted to Proc 14th Int’l Conf Racing Ana­lysts Vets, Orlando, FL, 2002.
358. Casey PJ, Korolev AB, Baker IDC, Champion ZJ, **Tobin T**: The effect of intermittent hypoxic training (IHT) on haematological values, aerobic capacity and performance in racing thoroughbreds. Abstract submitted to Proc 14th Int’l Conf Racing Ana­lysts Vets, Orlando, FL, 2002.
359. Lehner AF, Meek J, True J, Harkins JD, Karpiesiuk W, Hughes CG, Dirikolu L, Woods WE, Bosken J, Boyles J, Troppmann A, Fannin N, Bush L, Craig AM, **Tobin T**: Ergot alkaloids screened by HPLC-electrospray[+] tandem quadrupole mass spectrometry. Manuscript accepted by *J Anal Tox*, 2002. [KY Ag Exp Sta# 02-14-61]
360. Hughes CG, Sebastian M, Crutchfield J, Dirikolu L, Harkins JD, Boyles J, Troppmann A, McDowell K, Harrison L, **Tobin T**: A simple, rapid and highly sensitive spectrophotometric method for determination of cyanide in equine biological samples. *Toxicology Mechanisms and Methods* **13**:129-138, 2003. [KY Ag Exp Sta# 02-14-85]
361. Dirikolu L, Sebastian M, Hughes CG, Crutchfield J, Harkins JD, Boyles J, Troppmann A, McDowell K, Harrison L, **Tobin T**: The toxicokinetics of cyanide and mandelonitrile in the horse and their relevance to the Mare Reproductive Loss Syndrome. *Toxicology Mechanisms and Methods,* 13:199-211, 2003. [KY Ag Exp Sta# 02-14-86]
362. **Tobin T**, McDowell K, Hughes CG, Lehner AF, Crutchfield J, Harkins JD, Dirikolu L, Sebastian M, Harrison L, Williams N, Smith R, Webb B, Newman K, Allman R, Dwyer R, Powell D: The Kentucky 2001 Mare Reproductive Loss Syndrome: overview and preliminary toxicological approaches. Proc 14th Int’l Conf Racing Ana­lysts Vets, Orlando, FL, 2002. p. 261.
363. Camargo F, Dirikolu L, Sebastian M, Hughes C, Crutchfield J, Harkins JD, Boyles J, Troppmann A, McDowell K, Harrison L, **Tobin T**: The pharmacokinetics of cyanide and mandelonitrile in the horse and their relevance to the Mare Reproductive Loss Syndrome. Pages 303-307 Proc 14th Int’l Conf Racing Ana­lysts Vets, Orlando, FL, 2002. [KY Ag Exp Sta #03-14-071]
364. Queiroz-Neto A, Zamur G, Lacerda-Neto C, **Tobin T**: Determination of the Highest No-effect Dose (HNED) and of the elimination pattern for cocaine in horses. *J Appl Toxicol* **22**:117-121, 2002. [KY Ag Exp Sta #02-14-156]
365. Powell DG, Troppmann A, and **Tobin T** (Eds): Proceedings of the First Workshop on Mare Reproductive Loss Syndrome. Lexington, KY, August 2002. 134 pages, published 2003.
366. Mayer BA, **Tobin T**, Tai HH, Harkins JD, Carbajal J, Scherer C, Hawkins T, Bratton C, Schroedter DE: Detection of selegiline and selegiline metabolites in an ELISA assay for amphetamine. Manuscript submitted to Proc 14th Int’l Conf Racing Ana­lysts Vets, Orlando, FL, 2002.
367. Mayer BA, **Tobin T**, Tai HH, Harkins JD, Hawkins T, Bratton C, Schroedter DE: ELISA assay for ketamine. Manuscript submitted to Proc 14th Int’l Conf Racing Ana­lysts Vets, Orlando, FL, 2002.
368. Mayer BA, **Tobin T**, Tai HH, Harkins JD, Hale ND, Bratton C, Schroedter DE: ELISA assay for guanabenz. Manuscript submitted to Proc 14th Int’l Conf Racing Ana­lysts Vets, Orlando, FL, 2002.
369. Mayer BA, **Tobin T**, Tai HH, Harkins JD, Hale ND, Bratton C, Scherer C, Schroedter DE: ELISA assay for apomorphine. Manuscript submitted to Proc 14th Int’l Conf Racing Ana­lysts Vets, Orlando, FL, 2002.
370. Harkins JD, Dirikolu L, Sebastian M, Hughes C, Crutchfield J, Troppmann A, Boyles J, Webb B, McDowell K, Long W, Henning J, Harrison L, Fitzgerald T, **Tobin T**: Cherry trees, plant cyanogens, caterpillars and Mare Reproductive Loss Syndrome: Toxicological evaluation of a working hypothesis. In Powell DG, Troppman A, **Tobin T** (Eds), Proc First Workshop on Mare Reproductive Loss Syndrome, Lexington, KY, 2002, pp68-74. [KY Ag Exp Sta # 02-14-167]
371. Dirikolu L, Lehner AF, Hughes CG, Karpiesiuk W, Camargo F, Harkins JD, Woods WE, Bosken JM, Boyles J, Troppmann A, Fisher M, **Tobin T**: The detection, quantification and pharmacokinetics of furosemide and its effects on urinary specific gravity following intravenous administration to horses; *Veterinary Therapeutics*, Winter 2003;4(4):350-63. [KY Ag. Exp. Sta. #03-14-104]
372. Champion ZJ, Breier BH, Ewen WE, **Tobin T**, Casey PJ: Blood plasma concentrations of insulin-like growth factor-1 (IGF-1) in resting Standardbred horses. *The Vet J* **163**:45-50, 2002.
373. Sebastian M, Williams D, Harrison L, Donahue J, Seahorn T, Slovis N, Richter D, Fuller T, Trail C, Douglas R, **Tobin T**: Experimentally Induced Mare Reproductive Loss Syndrome Late Fetal Losses with Eastern Tent Caterpillars. In Powell DG, Troppman A, **Tobin T** (Eds), Proc First Workshop on Mare Reproductive Loss Syndrome, Lexington, KY, 2002, pp80-81.
374. Sebastian M, Harkins JD, Jackson C, Fuller T, Trail C, Richter D, Harrison L, and **Tobin T**: A laboratory animal model of Mare Reproductive Loss Syndrome: preliminary evaluation of a mouse model. In Powell DG, Troppman A, **Tobin T** (Eds), Proc First Workshop on Mare Reproductive Loss Syndrome, Lexington, KY, 2002, pp51-53.
375. Bosken JM, **Tobin T**, Mundy G, Fisher M, Gantz MG, Banks RO: Effect of furosemide on urine specific gravity and osmolality in Thoroughbred racehorses. *Veterinary Therapeutics,* 4(3):292-298, 2003. [Ky Ag Exp Sta # 02-14-180]
376. Lehner AF, Hughes CG, Karpiesiuk W, Harkins JD, Dirikolu L, Bosken J, Camargo F, Boyles J, Troppmann A, Woods WE, **Tobin T**: 2003.Development of a method for the detection and confirmation of the α2-agonist amitraz and its metabolites in horse urine. *J Anal Tox*, (7) P53-562.
377. **Tobin T**: Septic Penetrating Setae/Septic Emboli/Septic Penetrating Setal Emboli (SPS/SE/SPSE): A hypothesis to explain the pathogenesis of the Mare Reproductive Loss Syndrome. Copyright registered at Library of Congress, June 17, 2003, #TXU1111484.
378. Lehner AF, Hughes CG, Harkins JD, Nickerson C, Mollett B, Dirikolu L, Bosken JM, Camargo F, Boyles J, Troppmann A, Karpiesiuk W, Woods WE, **Tobin T**: 2004: Detection and confirmation of ractopamine and its metabolites in horse urine after Paylean(R) administration. *J Anal Tox*, 28 (4) 226-238. [KY Ag Exp Sta # 03-14-041]
379. **Tobin T**: The past and future of equine drug testing and medication regulation. Proc 24th Bain-Fallon Memorial Lectures, Gold Coast, Australia, 2002, pp.8-12.
380. **Tobin T**: Factors affecting “detection times” and “withdrawal times” for NSAIDs. Proc 24th Bain-Fallon Memorial Lectures, Gold Coast, Australia, 2002, pp.13-17.
381. **Tobin T**: Pre-purchase and drug testing of horses: a review. Proc 24th Bain-Fallon Memorial Lectures, Gold Coast, Australia, 2002, pp. 18-22.
382. **Tobin T**: The Mare Reproductive Loss Syndrome: an ongoing toxicological/other investigation. Submitted to Proc 24th Bain-Fallon Memorial Lectures, Gold Coast, Australia, 2002.
383. Stirling K, Bellocq R, and **Tobin T**: National Horsemen’s Benevolent and Protective Association, Inc. Proposed National Policy on Drug Testing and Therapeutic Medication. *J Eq Vet Sci* **23**(1): 4-5, 18-40, 2003. [Ky Ag Exp Sta# 03-14-072]
384. Sebastian MM, Gantz M, **Tobin T**, Harkins JD, Bosken JM, Hughes CG, Harrison LR, Bernard WV, Richter D and Fitzgerald TD: 2003 ["The mare reproductive loss syndrome and the eastern tent caterpillar: A toxicological/statistical analysis with clinical, epidemiologic, and mechanistic implications"](http://thomastobin.com/archive/331%20-%20MRLS%20and%20Eastern%20Tent%20Caterpillar.pdf). *Veterinary Therapeutics* **4** (4): 324–39.
385. **Tobin T**: Summary, Session 5: MRLS and Associated Syndromes: Toxicological Hypotheses. In Powell DG, Troppman A, **Tobin T** (Eds), Proc First Workshop on Mare Reproductive Loss Syndrome, Lexington, KY, 2002, p75.
386. Harkins JD, Dirikolu L, Lehner AF, Hughes CG, Woods WE, Schroedter D, Mayer B, Bratton C, Fisher MV, **Tobin T**: Short Communication: A rapid and sensitive Enzyme Linked ImmunoSorbent Assay (ELISA) test for guanabenz in the horse. Manuscript in final draft, 2003.
387. **Tobin T**: Test of time. *The Blood Horse*, November 17, 1990, pp. 6188-6190.
388. Carter WG, Troppmann A, **Tobin T**, Franklin B: An overview of the effective world rules on therapeutic medications. Booklet published by Gluck Equine Research Center.
389. Mundy GD, Stanley SD, **Tobin T**: Analysis of prohibited substances in Kentucky with emphasis on strategies for practitio­ners to avoid problems. Proc 41st Convent Am Assoc Equine Pract, Lexington, KY, 1995, pp160-162.
390. **Tobin T**, Harkins JD, Woods WE, Queiroz-Neto A, Stanley SD, Mundy GD: Over­view of di­etary, envi­ron­men­tal, and endoge­nous sub­stanc­es of regulato­ry concern in racing horses. Proc 41st Convent Am Assoc Equine Pract, Lexington, KY, 1995, pp156-159.
391. **Tobin T**: Trace Level Benzoylecgonine Identifications in Post-Race Urines: Probable Sources and the Regulatory Significance of Such Identifications, HBPA Booklet pub­lished by Gluck Equine Re­search Center, Lexington, KY, 2000. Also: Appendix II: Currently in place “limits” or “cutoffs” or thresholds for cocaine/benzoylecgonine.
392. Rees WA, Harkins JD, Lu M, Holland RE, Lehner A, **Tobin T**, Chambers TM: Pharmacokinetics and therapeutic efficacy of rimantadine in horses experimentally infected with influenza virus A2. *Am J Vet Res*, **60**:888-894, 1999. [KY Ag Exp Sta #96-14-131].
393. Harkins JD, Queiroz-Neto A, Mundy GD, West D, **Tobin T**: Development and characterization of an equine behavior chamber and the effects of amitraz and detomidine on spontaneous locomotor activity. *J Vet Pharmacol Therap,* **20**:396-401, 1997.
394. Harkins JD, Lehner A, Karpiesiuk W, Woods WE, Dirikolu L, Boyles J, Carter WG, **Tobin T**: Bupivacaine in the horse: Relationship of local anaesthetic responses and urinary concentrations of 3-hydroxybupivacaine. *J Vet Pharmacol Therap*, **22**:181-195, 1999. [KY Ag Exp Sta #98-14-166]
395. Dirikolu L, Lehner AF, Karpiesiuk W, Hughes C, Woods WE, Bosken J, Carter WG, Boyles J, Harkins JD, **Tobin T**: Detection of selegiline and its major urinary metabolite, N-Desmethylselegiline, in equine urine: A preliminary report. Submitted to Proceedings of the 54th Meeting of the Association of Official Racing Chemists, Lexington, KY, 2001.[KY Ag Exp Sta #01-14-186]
396. **Tobin T**, Harkins JD, Lehner AF, Woods WE, Karpiesiuk W, Dirikolu L, Carter W, Boyles J, Sams RA: An overview of analyti­cal/pharmacological relationships and the need for limita­tions on the sensitivity of testing for certain agents. Proc 12th Int’l Conf Racing Ana­lysts Vets, Vancouver, Canada, 1998, pp210-216. [KY Ag Exp Sta #98-14-50]
397. Lehner AF, Hughes CG, Karpiesiuk W, Harkins JD, Bosken JM, Camargo F, Boyles J, Troppmann A, Woods WE and **Tobin T**: (2004) Metabolism of the α2-agonist amitraz in horses and confirmation of its administration, Proc 15th Intl Conf Racing Analysts Vets, pp. 155-160 [KY Ag Exp Sta #04-14-010].
398. Lehner AF, Hughes CG, Harkins JD, Bosken JM, Camargo F, Boyles J, Troppmann A, Karpiesiuk W, Woods WE and **Tobin T**(2004) Metabolism of the beta-adrenergic agonist ractopamine in horses and confirmation of its administration with GC/MS. 15th Intl Conf Racing Analysts Vets, pp.93-98 [KY Ag Exp Sta #04-14-008]
399. Hughes CG, Lehner AF, Harkins JD and **Tobin T**: Preliminary report on the confirmation and quantitative determination of salmeterol in equine urine. Proc 15th Intl Conf Racing Analysts Vets, 2004. p. 406-411[KY Ag Exp Sta #04-14-009]
400. Gantz MG, Harkins JD, Sebastian M, Bosken J, Hughes CG, Harrison L, Bernard WV, Richter D, Fitzgerald TD and **Tobin T**: A toxicokinetic/Accelerated Failure Time Analysis of the Mare Reproductive Loss Syndrome (MRLS). Proc 15th Intl Conf Racing Analysts Vets, 2004. p212-217 [KY Ag Exp Sta #04-14-020]
401. **Tobin T**: Septic Penetrating Setae/Bacteria/Bacterial Emboli/Septic Penetrating Setal Emboli (SPS/B/BE/SPSE): A hypothesis to explain the pathogenesis of Mare Reproductive Loss Syndrome. 15th Intl Conf Racing Analysts Vets, p. 418-422 , 2004.
402. Karpiesiuk W, Lehner AF and **Tobin T**: Synthesis and certification of salmeterol and salmeterol-d12 standards. Proc 15th Intl Conf Racing Analysts Vets, 2004. p405
403. **Tobin T**, Harkins JD, VanMeter PW, Fuller TA: 2004; The Mare Reproductive Loss Syndrome and the Eastern Tent Caterpillar II: A Toxicokinetic/Clinical Evaluation and a Proposed Pathogenesis: Septic Penetrating Setae. Int J Applied Res in Vet Med, Vol 2 No2 p 142 -158.
404. Lehner AF, Hughes CG, Harkins JD, Karpiesiuk W, Camargo F, Boyles J, Woods WE and **Tobin T**: Detection and identification of dizocilpine and its major urinary metabolites in the horse: a preliminary report. Chromatographia 59:S95-S103, 2004. [KY Ag Exp Sta #04-14-003]
405. Lehner AF, Hughes CG, Karpiesiuk W, Camargo FC, Harkins JD, Woods WE, Bosken J, Boyles J, Troppmann A and **Tobin T**: Determination of salmeterol in equine urine and serum. *Chromatographia* 59:S79-S84, 2004. [KY Ag Exp Sta# 04-14-011]
406. Karpiesiuk W, Lehner AF, Hughes CG, and **Tobin T** (2004): Preparation and Chromatographic Characterization of tetrahydrogestrinone (THG), a New “designer” Anabolic Steroid. *Chromatographia*, 60, 359-363. [KY Ag Exp Sta #04-14-052 Cited 11 times.
407. Dirikolu L, Karpiesiuk W, Lehner AF, Hughes, C., Woods WE, Harkins JD, Boyles J, Atkinson A, Granstrom D, and **Tobin T**. (2004) New Therapeutic Approaches for Equine Protozoal Myelitis: Synthesis and Pharmacokinetics of Diclazuril Sodium Salt in the Horse: Proceedings of the 15th International Conference of Racing Analysts and Veterinarians, Dubai, pp 135-140
408. Karpiesiuk W, Lehner AF, Hughes CG, Guan F, Uboh C, Soma L, Bratton C, Kellerman L and **Tobin T**: (2004) Preparation and analysis of tetrahydrogestrinone (THG), a recently reported “designer” anabolic steroid. Proc 15th Intl Conf Racing Analysts Vets,.p518-522.
409. Camargo FC, Lehner AF, Karpiesiuk W, Stirling K., Kavanagh PV, Brennan N, Dowling M., and **Tobin T**. (2005) Review of Environmental Morphine Identifications: Worldwide occurrences and Responses of Authorities. AAEP Proc. vol. 61 p58-64
410. Guan F, Uboh CE, Soma LR, Luo Y, Rudy J, and **Tobin T**., (2005) [Detection, quantification and confirmation of anabolic steroids in equine plasma by liquid chromatography and tandem mass spectrometry.](http://www.ncbi.nlm.nih.gov./pubmed/16289956?ordinalpos=11&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum) Journal of Chromatography B 829 56–68.
411. **Tobin T**., Camargo FC, Lehner AF, and Karpiesiuk W. (2005) Drugs Medications and Performance Altering Substances: Their Performance Effects, Detection and Regulation: From 1800 to Keeneland Oct 12th, 2005.
412. Camargo FC, Robinson NE, Berney C, Eberhart S, Baker S, DeTolve P, Derksen FJ, Harkins JD, Lehner AF, and **Tobin T**. 2006. [Intravenous and intratracheal administration of trimetoquinol, a fast-acting short-lived bronchodilator in horses with 'heaves'.](http://www.ncbi.nlm.nih.gov./pubmed/17124848?ordinalpos=9&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum) Equine Vet J. 38(6):563-9
413. **Tobin T**, Hughes C, Lehner AF, Camargo FC: (2006) Synthesis of deuterated analytical standards: Ketoprofen-d3 and Flunixin-d3. Proceedings of the 16th International Conference of Racing Analysts and Veterinarians, Tokyo, Japan, pp214-217
414. Camargo FC, Hughes C, Lehner AF and **Tobin T**. (2006) Trace Level Benzoylecgonine Identifications in Post-Race Urines: Probable Sources and the Regulatory Significance of Such Identifications. AAEP Proc. Vol. 52 p331-336
415. Camargo FC, Robinson NE, Berney C, Eberhart S, Baker S, Detolve P, Derksen FJ, Lehner AF, Hughes C, **Tobin T**. (2007) [Trimetoquinol: bronchodilator effects in horses with heaves following aerosolised and oral administration.](http://www.ncbi.nlm.nih.gov./pubmed/17520971?ordinalpos=8&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum) Equine Vet J. 39(3):215-20
416. Budhraja A., Camargo FC, Hughes C, Lehner AF, Stirling K., Brennan N, Dowling M., and **Tobin T** (2007) Caffeine and Theobromine Identifications in Post-race Urines: Threshold Levels and Regulatory Significance of Such Identifications. AAEP Proc. Vol. 53 p87-92.
417. Lehner AF, Stewart J, Dafalla A, Ely KJ, Connerly AL, Jones CN, ElkHoly H, Thompson K, **Tobin T**, Dirikolu L. (2007) [Gabapentin in horses: validation of an analytical method for gabapentin quantitation.](http://www.ncbi.nlm.nih.gov./pubmed/18093414?ordinalpos=6&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum) J Anal Toxicol. 31(9):555-65
418. Camargo FC, Robinson NE, Dirikolu L, Berney C, Eberhart S, Derksen FJ, Lehner AF, May J, Hughes C, **Tobin T**., (2008) Plasma and urinary concentrations of trimetoquinol by LC-MS-MS following intravenous and intra-tracheal administration to horses with heaves. J Vet Pharmacol Ther 31(6):501-10
419. Dirikolu L, Dafalla A, Ely KJ, Connerly AL, Jones CN, ElkHoly H, Lehner AF, Thompson K, and **Tobin T**.(2008) [Pharmacokinetics of gabapentin in horses.](http://www.ncbi.nlm.nih.gov./pubmed/18307511?ordinalpos=4&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum) J Vet Pharmacol Ther. 31(2):175-7.
420. Spencer WA, Camargo FC, Karpiesiuk W., Stirling K., Casey PJ, and **Tobin T**. (2008). Review of the Current Status of Thresholds/Withdrawal Time Guidelines for Therapeutic Medications in Performance Horses. AAEP proc. Vol.54 p29-37
421. Dirikolu L., Woods WE, Boyles J., Lehner A F, Harkins JD, Fisher M, Schaeffer DJ, and **Tobin T** (2008) Nonsteroidal anti-inflammatory agents and musculoskeletal injuries in Thoroughbred racehorses in Kentucky J. Vet. Pharmacol. Therap. doi: 10.1111/j.1365-2885.2008.01038.x
422. Dirikolu L, Lehner AF, Hughes C, Karpiesiuk, W and **Tobin T**: (2008) New Therapeutic Approaches to Equine Protozoal Myelitis: Pharmacokinetics of Toltrazuril Sulfone Sodium Salts in the Horse AAEP Proc. Vol.54 p191
423. Lehner AF, Fitzgerald BP, Hughes CG, **Tobin T**, Camargo FC., May J, Dirikolu L, Christiansen DL, and Ryan PL. (2008) Serum concentrations of ergovaline/ergot alkaloids in late-term pregnant mares grazing entophyte infected tall fescue pastures: DOI: 10.1016/j.theriogenology.2008.05.028 A preliminary report. Theriogenology 70 (2008) p583.
424. Dirikolu L, Lehner AF, Harkins JD, Woods WE, Karpiesiuk W, Gates RS, Fisher M, **Tobin T**: (2009) Pyrilamine in the horse: Detection and pharmacokinetics of pyrilamine and its major urinary metabolite “O-desmethylpyrilamine”. J Vet Pharmacol Ther. 2009 Feb;32(1):66-78
425. Lehner AF, Petzinger E, Stewart J, Lang DG, Johnson MB, Harrison L, Seanor JW, **Tobin T**. (2009) ESI+MS/MS confirmation of canine ivermectin toxicity J Mass Spectrom.44(1):1119.
426. Dirikolu L, Karpiesiuk W, Lehner AF, Hughes, C, Granstrom D and **Tobin, T** (2009) Effect of Dimethylsulphoxide On Oral bioavailability Of a Triazine Based Antiprotozoal agent Toltrazuril Sulfone In The Horse. Proceedings of the 17th International Conference of Racing Analysts and Veterinarians, Antalya, Turkey. pp.315-320
427. Dirikolu L, Woods WE, Boyles J, Lehner AF, Harkins JD, Fisher M, Schaeffer DJ and **Tobin T**.(2008) Nonsteroidal Anti-Inflammatory Agents And Musculoskeletal Injuries In Thoroughbred Racehorses In Kentucky. Proceedings of the 17th International Conference of Racing Analysts and Veterinarians, Antalya, Turkey. pp 329-333
428. Dirikolu L, Karpiesiuk W, Lehner AF, Hughes, C, Granstrom D and **Tobin, T** (2009) Synthesis and Detection Of Toltrazuril Sulfone and Its Pharmacokinetics In Horses Following Administration In DiMethylSulfOxide. J Vet Pharmacol Ther. 2009 Aug; 32(4):368-78
429. Dhanjal JK, Wilson DV, Robinson NE and **Tobin T** (2009) Intravenous Tramadol: Effects, Nociceptive Properties, and Pharmacokinetics in Horses. Veterinary Anaesthesia and Analgesia 36, 581-590.
430. **Tobin T,** Dhanjal JK, Wilson DV, Hughes CG, Karpiesiuk W, Spencer W, Tharappel J, Dirikolu L, Lehner A and Robinson NE (2008) Tramadol in the Horse: A Preliminary Report on its Detection, Pharmacokinetics and Pharmacodynamics Responses. Proceedings of the 17th International Conference of Racing Analysts and Veterinarians, Antalya, Turkey, pp 106-115.
431. Dirikolu L, Karpiesiuk, W, Lehner F and **Tobin T**., Toltrazuril Sulfone Sodium Salt: Synthesis, Analytical Detection, and Pharmacokinetics in the Horse 2011 J Vet Pharmacol Ther Vol 35 (3) 265-274. Kentucky Ag Expt Station Number 11-14-046
432. **Tobin T** and Stirling KH (2009) Equine Drug Testing & Therapeutic Medication Regulation; 2009 Policy of the National Horsemen's Benevolent and Protective Association, Inc. Wind Publications, 600 Overbrook Dr, Nicholasville, KY 40356, USA pp 170
433. **Tobin T**, Eisenberg R, Gutierrez J, Long S, Li T, Tharappel J, Hughes C, Armstrong E, Mayer B, Stanley E, Lyons M and Karpiesiuk W (2010) Certified Reference Standards and Stable Isotope Internal Standards for Equine Therapeutic Medication Regulation. Proceedings of the 18th International Conference of Racing Analysts and Veterinarians, Queenstown, New Zealand, p 171-176, 2012.
434. **Tobin T**, Gutierrez J, and Eisenberg R (2010) Experiences as an Expert: Educating People While Under Oath, 25 Years since Hong Kong. Proceedings of the 18th International Conference of Racing Analysts and Veterinarians, Queenstown, New Zealand p 74- 81, 2012.
435. Harden R and **Tobin T** (2010) “Shipping In” A Risk Factor Associated with Fatal Musculoskeletal Racing Injuries. Submitted for publication, J Eq Vet Sci.
436. **Tobin T**, Koval N and Harden R (2010) Fatal Musculoskeletal Injury Rates and Regulatory Thresholds for Phenylbutazone, in final draft
437. Gutierrez J, Eisenberg RL, Koval NJ, Armstrong ER., Tharappel J, Hughes CG, **Tobin, T** (2010) Pemoline and Tetramisole “Positives” In English Racehorses Following Levamisole Administration. Irish Vet J 63 (8) 498-500
438. Race for the Prize (2010) Robert Hogan Interviews **Thomas Tobin** in Irish Veterinary Journal. Irish Vet J 63 (8) 482-484.
439. Gutierrez J, Eisenberg R, Herrensmith G, **Tobin T**, Li T and Long S (2010) Conformational Polymorphism in 2-((4-hydroxy-2,6-dimethylphenyl) amino)-5,6-dihydro-4H-1,3-thiazin-3-ium Chloride, C66, p 593-595, Acta Crystallographica Section C: Crystal Structure Communications. Ky Ag Expt Station Number 10-14-123 UK #392. PMID: 21123891
440. Oz HS, DVM, MS, PhD, AGAF ; **Tobin T**, MVB, MSc, PhD, MRCVS, DABT Efficacy of Diclazuril Protection in a Mouse Model of Fetal Toxoplasmosis Int J Clin Med. 2014 Jan 1; 5(3): 93–101. Published online 2014 Jan 1. doi:  [10.4236/ijcm.2014.53017](http://dx.doi.org/10.4236%2Fijcm.2014.53017)2011 UK #395.
441. Gutierrez J, Eisenberg R, Herrensmith G, **Tobin T**, Li T, Long S (2011) Solvatomorphism in (E)-2-(2,6-dichloro-4-hydroxybenzylidene) hydrazinecarboximidamide, Acta Crystallographica [*Acta Cryst.*](http://journals.iucr.org/c) (2011). [C**67**](http://journals.iucr.org/c/contents/backissues.html), o310-o314 [doi:10.1107/S0108270111023845](http://dx.doi.org/10.1107/S0108270111023845) Reference: sq3285 UK# 394, PMID: 21817799 [Cited by 2](https://scholar.google.com/scholar?cites=2656331314613825189&as_sdt=4000005&sciodt=0,18&hl=en)
442. LehnerAF, Duringer JM, Estill CT, **Tobin T** and Craig AM (2011) ESI-Mass spectrometric and HPLC elucidation of a new ergot alkaloid from perennial ryegrass hay silage associated with bovine reproductive problems, Toxicology Mechanisms and Methods, 21 (8) p 606-21. KAES Article # 11-14-031 UK # 396.
443. **Tobin T**, Brewer K, and Stirling KH (2012) Equine Drug Testing & Therapeutic Medication Regulation; 2012 World Rules for Equine Drug Testing and Therapeutic Medication Regulation; 2012 Policy of the National Horsemen's Benevolent and Protective Association, Inc. Wind Publications, 600 Overbrook Dr, Nicholasville, KY 40356, USA pp 289 KAES Article # 11-014-096 UK # 397 .
444. Gutierrez J, Eisenberg R, Ferguson EM, HughesC and **Tobin T** (2012) “Synthesis of myo-inositol trispyrophosphate (ITPP) for use as an analytical standard” 19th International Conference of Racing Analysts and Veterinarians, Philadelphia, Pennsylvania, September 15-22, 2012, pages 136-142. [UK 398 Ag. Experiment Station Number, 12-14-100, published Dec 2014]
445. **Tobin T**, Galley RH, Brewer K, Briceno AM and Leon DV (2012) Furosemide, the Prevention of Epistaxis and Related Considerations: A Preliminary Evaluation: Int. J. Applied Research in Veterinary Medicine, vol 10 #3 p 176-184. [*www.jarvm.com/articles/Vol10Iss2/ Vol10%20Iss2*](http://www.jarvm.com/articles/Vol10Iss2/%20Vol10%20Iss2) Tobin.pdf [UK 399]
446. Soring KH, Brewer K, Kind AJ, and **Tobin** (2012) Foreign Substances Reported in Iowa Racing, 2001 – 2011: A Review and Analysis, 19th International Conference of Racing Analysts and Veterinarians, Philadelphia Pennsylvania, September 15-22, pages 102-114. [UK #400, Ag. Experiment Station Number, 12-14-098]
447. Kind AJ, Soring K, JD, Brewer K, Eisenberg, R, Hughes CG, Hartmann-Fishbach, P and **Tobin T** (2012)Cathinone and Related “Bath Salt” Substances – Detection in Equine Urine and Potential Sources, The 19th International Conference of Racing Analysts and Veterinarians, University of Pennsylvania, Philadelphia, Pennsylvania, September 2012. Pages 53-67 [UK401, Ag. Experiment Station Number, 12-14-099, published, Dec 2014]
448. Kudrimoti S, Gutierrez J, Eisenberg R, Ferguson EM, Hughes C and **Tobin T** (2012) Synthesis of 3-Hydroxy-mepivacaine-*d*3 as an Internal Standard for Equine Medication Regulation, The 19th International Conference of Racing Analysts and Veterinarians, University of Pennsylvania, Philadelphia, Pennsylvania, pages 128-135 September 2012. [UK 402 Ag. Experiment Station Number, 12-14-101]
449. **Tobin, T**, Dirikolu, L, Brewer, K and Hughes, C (2012) A Clinician’s Guide to Factors Affecting Withdrawal Times, The Veterinary Journal, 198 (2), 313-321 2013 [UK 403 Ag. Experiment Station Number, 13-14-011] [Cited by 2](https://scholar.google.com/scholar?cites=1525584406529941034&as_sdt=4000005&sciodt=0,18&hl=en)
450. **Tobin, T** and Brewer, K (2012) Furosemide, Epistaxis and the Racing Horse: A review and Analysis: in progress, invited review for the Veterinary Journal [UK404]
451. Oz, H, and **Tobin T**, Atovaquone Ameliorates Gastrointestinal Toxoplasmosis complications in A Pregnancy Model: , Med Sci Monit. 2012 Sep;18(9):BR337-45. PMID: 22936182 [UK405] KAES Article # 12-14-084    [Cited by 14](https://scholar.google.com/scholar?cites=7020466658072536793&as_sdt=4000005&sciodt=0,18&hl=en)
452. Briceno, AM, Leon, DV, Brewer, K and **Tobin, T** (2012) A Toxicology and Clinical Study of Post-Race Epistaxis Associated with Exercise Induced Pulmonary Hemorrhage in Thoroughbred Race Horses at the Racecourse Rinconada, Caracas, Venezuela, Vol 1 #7 <http://dx.doi.org/10.4172/scientificreports.348> Open Access Scientific Reports UK406]
453. Dirikolu L, Foreman, JH, **Tobin, T** (2013) Current Therapeutic Approaches to Equine Protozoal Myeloencephalitis, American Journal of Veterinary Research 242(4):482-491. [UK#407, KAES Article #13-14-008, PMID:23363280]
454. Fenger, C, Haines, D, Casey P, Langemeier, J and **Tobin, T**: Bovine Colostrum supplementation decreases the incidence of upper respiratory infection in horses in race training and may improve performance and recovery; Submitted for presentation and publication, Proceedings of the 59th AAEP Annual Convention, Nashville, Tennessee December 7-11, 2013, [UK#408 KAES Article # 13-14-047.
455. Kimberly Brewera, Levent Dirikolub, Charlie G. Hughesc, **Thomas Tobin**c\* Scopolamine in racing horses: trace identifications associated with dietary or environmental exposure” The Veterinary Journal, [Volume 199, Issue 3](http://www.sciencedirect.com/science/journal/10900233/199/3), March 2014, Pages 324–331.
456. H. Oz and **T. Tobin**, "Diclazuril Protects against Maternal Gastrointestinal Syndrome and Congenital Toxoplasmosis, 2014 International Journal of Clinical Medicine, Vol. 5 No. 3, 2014, pp. 93-101. doi: 10.4236/ijcm. 2014.53017. [Cited by 12](https://scholar.google.com/scholar?cites=2927314376179017691&as_sdt=4000005&sciodt=0,18&hl=en)
457. Fenger, CK, **Tobin, T**, Casey, PJ, Roualdes, E, Langemeier, JL and Haines, DM. 2014: Bovine colostrum supplementation improves earnings, performance and recovery in racing Thoroughbreds. Journal Comparative Exercise Physiology, Volume 10, Number 4, pages 233-238, UK AG School number 14-14-052
458. Kimberly Brewera, Theodore F. Shultsb, **Thomas Tobin**c\*, Sucheta Kudrimotic, Rodney L. Eisenbergd, Petra Hartman f, Caroline Wang f, Charlie Hughes c, Jacob Machind, and Pierre Beaumier g A Cluster of Trace-Concentration Methamphetamine Identifications in Racehorses Associated with a Methamphetamine-contaminated Horse Trailer: A Report and Analysis: 2016 Canadian Veterinary Journal, 57 (8) 860-864. Kentucky Agricultural Experiment Station (KAES Publication # 15-14-057). Equine publication # 424.
459. **Tobin T**: 1982; Opiates, enkephalins and racing horses. *Equine Veterinary Science*, 2(1):32-33, Jan/Feb 1982.
460. Morales A, Mendez A, Brewer K, **Tobin T**. Muerte subita en caballos de alta competencia. Aspectos patologicos y serie de caso clinicos de revision. Revista Equinus, 41, p.48-62, 2015
461. Morales A, Mendez A, Brewer K, **Tobin, T**. Muerte subita en caballos pura sangre de carreras, Gaceta Hipica, 149, 3, p.23, 2015
462. Fenger, C., **Tobin, T**., Casey, P., Langemeier, J. and Haines, D. Bovine colostrum supplementation does not influence serum insulin-like growth factor-1 in horses in race training. Journal of Equine Veterinary Science, 34(8):1025-1027, August 2014
463. Da Silva E, Rossini V, Rivero L, Morales A, Mendez A, Brewer K, **Tobin T**. Deteccion de furosemide y otras substancias en caballos de Carrera [Furosemide and detection of foreign substances in racehorses, Archivos Venezolonos de Farmacologia y Terapeuktica, 33:4, p.76-79, 2014
464. Morales A, Mendez-Sanchez A, Armas M, Guarino C, Moya M, Suniaga E, Brewer K, **Tobin T**. Estudio comparativo del efecto de la combinacion levotiroxina-clenbuterol en ratones Balb/c y ratas Sprague Dawley, Patologia, 53, p.141-150, 2015
465. Morales Briceno, A., Mendez Sanchez, A., Brewer, K., **Tobin, T**. Medicasion terapeutica en caballos pura sangre de carreras en Venezuela, Revista Contacto Veterinario, 14:27, p.34, 2014
466. S. Kudrimoti, R. Eisenberg, G. A. Maylin, Charlie Hughes, and **T. Tobin**. Synthesis and characterization of 4-hydroxyxylazine and 4-hydroxyxylazine-d6 standards for use in xylazine regulation in competition horses: Presented and published September 2014, the 20th International Conference of Racing Analysts and Veterinarians, Sugar Beach, Mauritius, p332-335, KAES 15-14-005.
467. R. Eisenberg, S. Kudrimoti, C. G. Hughes, G. A. Maylin, and **T. Tobin**. Dihydromethylprednisone, an isomeric metabolite of methylprednisolone: synthesis of an analytical standard Presented and published, 20th International Conference of Racing Analysts and Veterinarians, Sugar Beach, Mauritius, p 270-274, KAES # 15-14-092.
468. S. Kudrimoti, R. Eisenberg, G. A. Maylin, C.G. Hughes, and **T. Tobin**. 20-Dihydroprednisone: Synthesis of an isomeric equine metabolite of prednisolone for use as an analytical standard; Presented and published, the 20th International Conference of Racing Analysts and Veterinarians, Sugar Beach, Mauritius, September 2014, p 346-350, KAES# 15-14-006.
469. K. Brewer, C. R. Harden, C.G. Hughes, and **T. Tobin**. "Shipping-in," a risk factor associated with fatal musculoskeletal racing injuries: Presented at the 20th International Conference of Racing Analysts and Veterinarians, Sugar Beach, Mauritius, September 2014, p 426.
470. A.M. Bricerio, A.M. Sanchez, R.H. Galley, K. Brewer, C. Hughes, **T. Tobin**. Increased Incidence of Sudden Death Associated with Exercise Induced Pulmonary Hemorrhage (EIPH) in Horses Racing at Higher Altitude in Venezuela: Presented and Published, the 20th International Conference of Racing Analysts and Veterinarians, Sugar Beach, Mauritius, September 2014, pages 414-421, Equine publication # 420, KAES Publication # 14-14-096.
471. Fenger, C. K., **Tobin, T**., Casey, P. J., Roualdes, E., Langemeier, J. L., and Haines, D.M. Bovine Colostrum Supplementation Improves Earnings, Performance and Recovery in Racing Thoroughbreds. Presented at the 20th International Conference of Racing Analysts and Veterinarians, Sugar Beach, Mauritius, September 2014.
472. Fenger, C, **Tobin, T**, Casey, P, Roualdes, E, Langemeier J, Cowles, R and Haines, D, Enhanced Bovine Colostrum Supplement Shortens the Duration of Respiratory Disease in Thoroughbred Yearlings, J. Equine Veterinary Science, Volume, July 2016, Pages 77-81 (KAES Publication # 16-14-005)
473. A. Queiroz-Neto1, A.B. Carregaro1, G. Zamur1, J.D. Harkins2 , **T. Tobin**2, M.I. Mataqueiro, S.C. Gonçalves Effect of amitraz and xylazine on some physiological variables of horses Arq. Bras. Med. Vet. Zootec. vol.52 n.1 Belo Horizonte Feb. 2000, [http://dx.doi.org/ 10.1590/S0102-09352000000100008](http://dx.doi.org/%2010.1590/S0102-09352000000100008)
474. Everett Macombera, Glenys Nobleb, Kimberly Brewerc, Jake Machind, Abelardo Morales Briceñoe, Mary Ann O’Connellf, Kent Stirlingg, Rodney Eisenbergh, S Kudrimotid, Clara Fengeri, and **Thomas Tobin**d\* Regulatory Thresholds for Xylazine; A Case Report and Review Based on Recent Regulatory Events: Submitted for publication, Canadian Veterinary Journal. Pferdeheilkunde, Equine Medicine, 40 (2024) 2, (March/April) 1-6. DOI 10.21836/PEMTobin
475. **Tobin, T** THREE SEQUENCES OF LOW CONCENTRATION URINARY IDENTIFICATIONS OF CATHINONE IN IOWA, RIO DE JANEIRO, AND SAO PAULO WITH NO APPARENT FORENSIC SIGNIFICANCE; A PRELIMINARY ANALYSIS. Report requested by and prepared for Dr. Goran Akerstrom, Director, [Fédération Equestre Internationale](http://www.fei.org/), Veterinary Department, King Hussein 1 Building, Chemin de la Joliette, 1006 Lausanne Switzerland, Submitted, April 4th, 2016.
476. Kimberly Brewer1, Jake Machin5 Theodore F. Shults2, Gregory A. Hood3, Charlie G. Hughes 5, Clara Fenger4 and **Thomas Tobin** 5 Tramadol: A Human Therapeutic Medication and an Environmental Substance Occasionally Identified in Equine Drug Testing Final draft publication, British Veterinary Journal.
477. Nicola Pusterla, DVM, PhD,a,\* **Thomas Tobin**, MVB, PhDb (2017) Update on EPM Therapeutics”; “*Veterinary Clinics of North America: Equine Practice”* Equine Pharmacology, Vet Clin Equine 33 (2017) 87-97.
478. **Tobin, T**, Codreanu, M, Therapeutics: 2006 “From Therapeutic Use to Abuse in Horses- Overview on Performance Altering Substances and their Detection in Racehorses" Romania, Ministry of Education and Research, University of Agronomy, All Sciences and Veterinary Medicine, Bucharest, Faculty of Veterinary medicine; Scientific Works, Veterinary Medicine, C Series XLIX 2006 Bucharest, pages 195-204.
479. R. Eisenberg, S. Kudrimoti, C. G. Hughes, G. A. Maylin, and **T. Tobin**. 2014 Synthesis purification and chemical characterization of 20 Dihydromethylprednisone, an isomeric metabolite of methylprednisolone in the horse for use as an analytical standard: Drug Testing and Analysis, 6(3) :303-307.
480. Brewer K, Maylin GA, Fenger CK, **Tobin T**. March 2016. Cobalt Use and Regulation in Horseracing: A Review. Comparative Exercise Physiology. 12(1):1-10. [Cited by 1](https://scholar.google.com/scholar?cites=904195872365104004&as_sdt=4000005&sciodt=0,18&hl=en)
481. Kevin Kersh, DVM, DACVS; Scott R. McClure, DVM, PhD, DACVS, DACVSMR; Jake Machin, MS; Levent Dirikolu, PhD; Brad Brown, DVM; Clara Fenger, DVM, PhD, DACVIM; George Maylin, DVM, PhD; Edward Roualdes, PhD; **Thomas Tobin**, MRCVS, PhD, DABT Determining viable withdrawal times for dexamethasone in horses in a racing environment, where self-contamination is likely: Clinical Guidelines for application in a regulatory environment. Presented at the 21st International Conference of Racing Analysts and Veterinarians, Montevideo, Uruguay, October 15-22nd, 2016, KAES Manuscript Number 17-14-078.
482. Abelardo Morales Briceño1,, Aniceto Mendez Sanchez1, Kimberly Brewer2,**Thomas Tobin**3 FOREIGN SUBSTANCES IDENTIFIED POST RACE IN THOROUGHBREDS AT LA RINCONADA RACETRACK, CARACAS VENEZUELA, A CLINICAL PATHOLOGICAL AND TOXICOLOGICAL STUDY. Presented and in press, 21st International Conference of Racing Analysts and Veterinarians, Montevideo, Uruguay, pages 102-104, October 15-22nd, 2016. KAES Manuscript Number 17-14-089.
483. Abelardo Morales Briceño1,2, Antonio Lamprea Garrido2, Alicia Garcia Hermoso2, Aniceto Mendez Sanchez1, Kimberly Brewer3,**Thomas Tobin**5 EPISTAXIS IN UNMEDICATED EQUINE DURING INTENSE EXERCISE IN ALMONTE-HUELVA-SPAIN. A PRELIMINARY REPORT: Presented At The 21st International Conference Of Racing Analysts And Veterinarians, Montevideo, Uruguay, October 15-22nd, 2016. KAES Manuscript Number 17-14-086. Also Presented As “Morales A. Méndez-Sánchez A, Brewer K, **Thomas Tobin**. Octubre, 2017. “Estudio Retrospectivo De La Casuística De Muerte Súbita En Almonte-Huelva, Andalucía, España”. **Proceeding XL Jornadas Científicas “Dra. Rosa Alba Salas Mora”, A Celebrarse En Las Conmemoraciones Del LXXIX Aniversario Del INH“RR” Y El XLI Aniversario De La Sociedad Científica Del INH“RR”.Fecha: Ciudad Y País: Caracas, Venezuela**.
484. Jake Machin1,Sucheta Kudrimoti1, K. Brewer and Rodney Eisenberg2 and **Thomas Tobin**\*1  Synthesis, Purification and Certification of Xylazine-d6: Presented and published, The 21st International Conference of Racing Analysts and Veterinarians, Montevideo, Uruguay, October 15-22nd, 2016, pages 290-294, KAES Manuscript Number 17-14-077.
485. Welch, M. A.; Booze, R. M.; Lehner, A. F.; **Tobin, T**.; Mactutus, C. F., 1998: Pharmacokinetics of acute IV cocaine in the late-gestation pregnant rat. Neurotoxicology & Teratology 20(3): 360, May-June.
486. Machin J, Shults, T Fenger C and **Tobin T**, 2017: Inadvertent Environmental Transfer of Dextromethorphan from Groom to Racehorse results in Establishment of a Pharmacologically relevant Cutoff; ToxTalk, Vol 41 Issue #2 p 20 -23.
487. J. Machin , W. Duer , G. Maylin , C. Fenger, D. Wilson, M. Ivey, B. Berthold , S. Allison, and **T. Tobin** 2019 Variability in plasma concentrations of methylprednisolone 6 days after intrasynovial injection of methylprednisolone acetate in racing horses: A field study Equine Veterinary Journal 51 (2019) 343–348 © 2018 EVJ Ltd , First published electronically, August 6th, 2018. KAES Manuscript Number 17-14-088.
488. Morales Briceño A, Méndez Sánchez A, Brewer K, **Tobin T**, Morales M, Castillo C. Año: 2015. “Cardiomiopatía hipertrófica y hemorragia pulmonar inducida por el ejercicio un estudio postmortem en caballos Pura Sangre” Volumen: Archivos Venezolanos de Farmacología y Terapéutica, vol. 34, núm. 3, 2015, Primera y última página: 9-13.
489. Morales Briceño A, Brewer K, **Tobin T**, Méndez Sánchez A, Pérez Arévalo J. Año: 2017.“Hemorragia pulmonar padecimiento usual en caballos deportivos” Volumen: Revista Mundo Equino Marzo-Abril 2017, Primera y última página: 58-59.
490. Morales Briceño A, Méndez-Sánchez A, Brewer K, **Tobin T**. Año: 2016 “Pharmacoepidemiological study of foreign substances identified in urine samples post-race associated mortality at a Racetrack La Rinconada, Caracas Venezuela, 2008-2012: A preliminary report”. Boleti Informativo Geum, v. 7, n. 1, 2016 Disponible en: <http://www.ojs.ufpi.br/index.php/geum/article/view/5059> Primera y última página: 1-6.
491. W.C. Duer1, J. Machin2, G. Maylin3, C. Fenger4, **T. Tobin**2\* “APPLICATION OF ROBUST REGRESSION ON ORDER STATISTICS AND DISTRIBUTION FREE STATISTICS IN THRESHOLD DETERMINATIONS FOR THERAPEUTIC MEDICATIONS, USING METHYLPREDNISOLONE AS AN EXAMPLE” Accepted for presentation, 22nd International Conference of Racing Analysts and Veterinarians, Dubai, United Arab Emirates March 3-10th 2018. KAES Manuscript Number 18-14-19.
492. J. Machin1, G.A. Maylin2, C.K. Fenger3, R. Hunt4, K.E. Bladon3, O. Sacopulos3, & **T. Tobin**1\* PILOT PHARMACOKINETIC STUDIES USING A HIGHEST NO EFFECT DOSE (HNED) AND A FULL CLINICAL DOSE OF MEPIVACAINE IN THOROUGHBRED HORSES Accepted for presentation, 22nd International Conference of Racing Analysts and Veterinarians, Dubai, United Arab Emirates March 3-10th 2018. KAES Manuscript Number 18-14-32.
493. Stephen Selway, DVM1**;** Nicholas Meittinis, DVM2; James Prendergast, DVM3; Foster Northrop, DVM4; Wayne Duer, PhD5; Clara Fenger, DVM, PhD, DACVIM6\*; Adrian Carabajal DVM7; **Thomas Tobin**, MRCVS, PhD, DABT8 **A longitudinal crossover study evaluating the association between furosemide administration, exercise induced pulmonary hemorrhage score and racing performance in two-year-old Thoroughbred racehorses,** submitted for presentation and publication,22nd International Conference of Racing Analysts and Veterinarians, Dubai, United Arab Emirates March 3-10th 2018. KAES Manuscript Number 18-14-18 also submitted for publication to Equine Veterinary Journal.
494. Machin, J. Kudrimoti, S. Eisenberg, R., Fenger, C., Hartmann, P., Maylin, G., **Tobin, T**., and Shults, T. (2018). “Synthesis, Characterization and Certification of Barbarin, a Possible Botanical Source of Aminorex Identifications”. Presentation and publication, the Society of Forensic Toxicology (SOFT) Annual Meeting, Oct 07-12, 2018. Minneapolis, Minnesota KAES Manuscript Number18-14-067.
495. George Maylin1, Clara Fenger2, Jacob Machin3, Sucheta Kudrimoti3, Rod Eisenberg4, J D Green5 and **Thomas Tobin**3 2019: “Aminorex identified in Horse Urine following consumption of *Barbarea vulgaris;* a preliminary report” Irish Veterinary Journal. 72:15. KAES Manuscript Number18-14-068
496. Machin, J. Childers, T, Kudrimoti, S. Eisenberg, R., Fenger, C., Hartmann, P., Maylin, G., **Tobin, T**., and Shults, T. (2020). “Synthesis, Characterization and Certification of Barbarin, a Possible Source of Unexplained Aminorex Identifications in Forensic Science”. Drug Testing and Analysis: First published 22 June 2020 <https://doi.org/10.1002/dta.2883>
497. Tobin T, Harkins JD, Woods WE, Queiroz-Neto A, Stanley SD, Mundy GD: Overview of dietary, environmental, and endogenous substances of regulatory concern in racing horses. Proc 41st Convent Am Assoc Equine Pract, Lexington, KY, 1995, pp156-159.
498. [S. McClure,](https://www.wageningenacademic.com/author/McClure%2C+S) [C. Fenger](https://www.wageningenacademic.com/author/Fenger%2C+C), [K. Kersh](https://www.wageningenacademic.com/author/Kersh%2C+K) ,[B. Brown](https://www.wageningenacademic.com/author/Brown%2C+B), [G. Maylin](https://www.wageningenacademic.com/author/Maylin%2C+G), [W. Duer,](https://www.wageningenacademic.com/author/Duer%2C+W) [K. Brewer,](https://www.wageningenacademic.com/author/Brewer%2C+K) [J. Machin and](https://www.wageningenacademic.com/author/Machin%2C+J) [T. Tobin; (2021)](https://www.wageningenacademic.com/author/Tobin%2C+T) Dexamethasone serum concentrations after intravenous administration in horses during race training; Comparative Exercise Physiology:17 (3)- Pages: 263 - 272
499. Jacob Machin3 George Maylin1, Clara Fenger2, and **Thomas Tobin**3\* Plasma Pharmacokinetics of Betamethasone Following Intra-Articular Administration of 15mg of BetaVet® into Each Stifle Joint: A Review and Analysis Submitted for publication, J vet Pharm Ther, March 1st, 2020.
500. Machin, J. Childers, T, Kudrimoti, S. Eisenberg, R., Fenger, C., Hartmann, P., Maylin, G., **Tobin, T**., and Shults, T. (2020). “Synthesis, Characterization and Certification of Barbarin, a Possible Source of Unexplained Aminorex Identifications in Forensic Science”. Drug Testing and Analysis: First published 22 June 2020 <https://doi.org/10.1002/dta.2883>
501. Abelardo Morales Briceño, Hilal Al Mahrouqi, Abdallah Al Kayyoomi, Harmon Oliva, Kimberly Brewer, **Thomas Tobin**; 2019; "Clinical signs associated with a case of iatrogenic poisoning by a turpentine-based commercial product in a 3-day-old foal: Brazilian Journal of Veterinary Research and Animal Science. 56 (4) 1-4.
502. Jacob Machin1, Kimberly Brewer2, Abelardo Morales-Briceno5 Clara Fenger3, George Maylin4 and Thomas Tobin1\*2022) SPORADIC WORLDWIDE “CLUSTERS” OF FEED DRIVEN ZILPATEROL IDENTIFICATIONS IN RACING HORSES: A REVIEW AND ANALYSIS., Irish Veterinary Journal, May 14;75(1):11. https://scholars.uky.edu/en/publications/sporadic-worldwide-clusters-of-feed-driven-zilpaterol-identificat
503. Kimberly Brewer1, Jake Machin6, George A. Maylin2, Clara Fenger3 Kevin D. Donohue4, David Lambert5 and **Thomas Tobin**6 \* THE DIFFERING GENETICS, PHYSIOLOGY AND BIOMECHANICS OF HARNESS AND THOROUGHBRED HORSES; IMPLICATIONS FOR MEDICATION REGULATION; submitted for publication, Comparative Exercise Physiology, 2021.
504. Sucheta Kudrimoti 1¢, Jacob Machin1¢, Adedamola S. Arojojoye2¢Samuel G. Awuah2,3 Rodney Eisenberg4, Clara Fenger5, George Maylin6, Andreas F. Lehner7, and Thomas Tobin1\* SYNTHESIS AND CHARACTERIZATION OF D5-BARBARIN FOR USE IN BARBARIN RELATED RESEARCH; Online publication, Drug Testing and Analysis, August 23rd, 2022.   
     <http://doi.org/10.1002/dta.3357> https://pubmed.ncbi.nlm.nih.gov/32567235/
505. Abelardo Morales-Briceño1, Kimberly Brewer2, Clara Fenger3 and Thomas Tobin4 SUDDEN DEATH ASSOCIATED TO EIPH IN ENDURANCE HORSES REPORTED IN THE LITERATURE (Period 2006-2019). Submitted for publication Brazilian Journal of Veterinary Research and Animal Science, September 2020.
506. Brewer K, Machin JJ, Maylin G, Fenger C, Morales-Briceño A, Neidhart MM, Tobin T. Case report: Synephrine, a plant substance yielding classic environmental clusters of hay related identifications in equine urine. Drug Test Anal. 2022 Apr;14(4):774-780. doi: 10.1002/dta.3212. Epub 2022 Jan 28. PMID: 35088566 https://pubmed.ncbi.nlm.nih.gov/35088566/
507. Morales-Briceño A Brewer K,  Falaknaz F, Tobin T. Furosemida (Lasix® /Salix®). REMEVET Equinos (2021): 3. Available at [https://fliphtml5.com/bookcase/ilybk](https://nam04.safelinks.protection.outlook.com/?url=https%3A%2F%2Fl.facebook.com%2Fl.php%3Fu%3Dhttps%253A%252F%252Ffliphtml5.com%252Fbookcase%252Filybk%253Ffbclid%253DIwAR1dG86ish7RHvR7ZeephtOqlvLLRjJLrhEqtG1wzMBHqWxK1e0BK6skdmc%26h%3DAT3EoKyra_oOIZC4ImO3XGWJLwoDIPEN0e4X7ffLZdwKQWgSMnrNfLOzBZoJY8bnga_ziRcGX4odu7Z_50b00TaUa5QoOQsPQHGJccO74BP7WSfuykEXQ5AHIKhdYPVJ%26__tn__%3D-UK-y-R%26c%255b0%255d%3DAT3MP6RbexCL62f-P1_kyCcJuI1eEHJjDzK4-ogmolbIz84GjL5qOghbhqCieeAj4DnBLtyFCaszrZzKjGgNs-O8mSJ7HbKq04BpW-HH78ctvDmpWbAkH488Zj_pCuSB5QQQ5dabyeDEtKrjZGl-8XTjivJE6tiRhEWtmpdPjwCW3Ov3NAU&data=04%7C01%7Cttobin%40uky.edu%7C88e3456d567d4e8029ef08d9dceeffc2%7C2b30530b69b64457b818481cb53d42ae%7C0%7C0%7C637783742216539873%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C1000&sdata=pGUNnpQlUOzLlUN4o7HdvSS66H1t0Hf39jXm6%2BnZi%2Bo%3D&reserved=0)
508. Brewer, K, Machin, J, Maylin G, Fenger, C, Morales-Briceño,Abelardo, and Thomas Tobin:Case Report: Gabapentin, a human therapeutic medication and an environmental substance frequently transferring at trace levels to horses: Published online, Irish Veterinary Journal, September 4th, 2022. Ir Vet J. 2022 Oct 4;75(1):19. doi: 10.1186/s13620-022-00226-5. PMID: 36192810; PMCID: PMC9531455. https://pubmed.ncbi.nlm.nih.gov/36192810/
509. Abelardo Morales Briceño, Kimberly Brewer, Thomas Tobin; Adrenocortical insufficiency syndrome in endurance horse; Report of a case; Veterinaria (Montevideo) Volumen 58 Nº 217 p1-4 (2022 Ene-Jun) e20225821701
510. Dirikolu, L, Lehner AF, and Tobin T,:2022 “Plasma concentrations of diclazuril following oral administration of diclazuril and diclazuril sodium salt to cattle” J. Vet. Pharm. Ther., 45, 392-401 DOI: 10.1111/jvp.13062, accepted April 9th, published April 30th, 2022. [Cited by 1](https://scholar.google.com/scholar?cites=14187218483987612448&as_sdt=4000005&sciodt=0,18&hl=en)
511. [B.B.Bentz](https://www.sciencedirect.com/science/article/pii/S073708069880066X?via%3Dihub" \l "!)**[,](https://www.sciencedirect.com/science/article/pii/S073708069880066X?via%3Dihub" \l "!)** [D.Granstrom**,**](https://www.sciencedirect.com/science/article/pii/S073708069880066X?via%3Dihub#!)[T.Tobin**,** L.Dirikolu**,** W.Carter](https://www.sciencedirect.com/science/article/pii/S073708069880066X?via%3Dihub#!)**,**[W.Saville**,**G.Wulff Strobel**,**](https://www.sciencedirect.com/science/article/pii/S073708069880066X?via%3Dihub#!) [W.Bernard](https://www.sciencedirect.com/science/article/pii/S073708069880066X?via%3Dihub#!)**,** [B.Baker**,**](https://www.sciencedirect.com/science/article/pii/S073708069880066X?via%3Dihub#!) [S.McCrillis**,**](https://www.sciencedirect.com/science/article/pii/S073708069880066X?via%3Dihub#!) [S.Reed**.**](https://www.sciencedirect.com/science/article/pii/S073708069880066X?via%3Dihub#!)1998 Preliminary report on diclazuril and equine protozoal myeloencephalitis Journal of Equine Veterinary Science journal ISSN:DOI.1016/S0737-10806(98)80066-  [Cited by 8](https://scholar.google.com/scholar?cites=15914546927207924343&as_sdt=4000005&sciodt=0,18&hl=en)
512. Abelardo Morales-Briceño1\*, Méndez-Sánchez A1, Brewer K2, Fenger C3, Tobin T4 and Arriaga P5 (2022) A Possible EIPH and Sudden Death Hereditary Condition Detected in Thoroughbreds in Venezuela Report of Case EC Veterinary Science 7.5 (2022): 29-35.
513. González-Del Pino F, Morales-Briceño A, Brewer K, Tobin T 240.2 Título del Trabajo: Muerte Súbita Asociada a la Ruptura Espontánea de la Arteria Aorta en un Semental Árabe. 240.3 Volumen: Remevet (México). Edicion Especial Equinos, 2 Ed. 2022. Available in: https://online.fliphtml5.com/nxmz/rdsn/#p=23 240.4 Primera y última página: 23-24. 240.5 Año: 2022.
514. Lehner, Andreas F, Dirikolu, Levent, and Tobin, Thomas: 2022: “Guanabenz in the horse – A preliminary report on clinical effects and comparison to clonidine and other alpha-2 adrenergic agonists” Pferdeheilkunde – Equine Medicine 38 (2022) 6 (November/December) 1–12. DOI 10.21836/PEMLehner <https://www.zora.uzh.ch/id/eprint/223908/> <https://scholars.uky.edu/en/publications/guanabenz-in-the-horse-a-preliminary-report-on-clinical-effects-a>
515. Kimberly Brewer, Clara Fenger, Abelardo Morales-Briceño, Andreas Lehner and Thomas Tobin (2023), Trace Level Identifications of Fentanyl and Eutylone in Equine Plasma, Pharmacological Significance and Probable Origins: A Case Report and Analysis: Pferdeheilkunde – Equine Medicine 39 (2023) 6 (November/December) 550–556. DOI 10.21836/PEM20230606 [https://www.pferdeheilkunde.de/10.21836/PEM20230606](https://nam04.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.pferdeheilkunde.de%2F10.21836%2FPEM20230606&data=05%7C01%7Cttobin%40uky.edu%7C2494c80edf664ab349fc08dbea006fcc%7C2b30530b69b64457b818481cb53d42ae%7C0%7C0%7C638361060424177007%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=Zzzko6yc3tcTR3WHrWWG%2FF0Tz66VL3I9OMWvtqsR9xE%3D&reserved=0)
516. Kimberly Brewer,1 Clara Fenger,2 Abelardo Morales-Briceño,3 Andreas F. Lehner,4 George A Maylin and Thomas Tobin5 20-Hydroxyecdysone identification in performance horses: case reports and analysis Deutscher Titel: 20-Hydroxyecdyson-Identifizierung bei Leistungspferden: Fallberichte und Analyse Pferdeheilkunde – Equine Medicine 39 (2024) 1 (January February) 1–8 DOI 10.21836/PEMBrewer\_Vancouver. https://pferdeheilkunde.de/files/20240102.pdf
517. Kimberly Brewer a, Alberto Morales Briceño b, Robert L Holland c, George Maylin d, Clara K, Fenger e, Andreas F. Lehner f  and Thomas Tobin g  (2024) “Trace-level detections of methamphetamine in racing horses: a review and forensic analysis” Pferdeheilkunde – Equine Medicine 40 (2024) 5 (September/October) 428–439. DOI 10.21836/PEM20240501
518. Brewer K, Fenger C, Morales-Briceño A, Lehner AF, Maylin GA, Holland R, Tobin T (2024) Metformin as an environmental substance transferring to horses – a case report and analysis. Deutscher Titel: Metformin als Umweltsubstanz, die auf Pferde übertragen wird: ein Fallbericht und eine Analyse Pferdehlk Equine Med 40, 1–7; DOI 10.21836/PEMBrewer\_85 https://pferdeheilkunde.de/files/20240204.pdf
519. L. Everett Macombera, Glenys Nobleb, Kimberly Brewerc, Alberto Morales Briceñod, Mary Ann O’Connelle, Rodney Eisenbergf, Clara Fengerg, Andreas F. Lehnerh and Thomas Tobini\* “Regulatory thresholds for xylazine; review and analysis based on recent pharmacokinetic data”, Pferdeheilkunde, Equine Medicine, 40 (2024) 2, (March/April) 1-6. DOI 10.21836/PEMTobin
520. Adedamola S. Arojojoye1  Miles P. Buchart 6\*, Justin Holmes1, Samuel G. Awuah1,2 Rodney Eisenberg3, Clara K. Fenger4, George A. Maylin5and Thomas Tobin6\* SYNTHESIS AND CHARACTERIZATION OF 3-HYDROXYBUPIVACAINE AND DEUTERATED 3-HYDROXYBUPIVACAINE FOR USE IN EQUINE MEDICATION REGULATION Submitted for publication, Submitted for publication and under review, Journal of Labelled Compounds and Radiopharmaceuticals, September 2024.
521. Adedamola S. Arojojoye1 Miles P. Buchart 6\*, Samuel G. Awuah1,2 Rodney Eisenberg3, Clara K. Fenger4, George A. Maylin5and Thomas Tobin6\* SYNTHESIS AND CHARACTERIZATION OF 3-HYDROXYROPIVACAINE, DEUTERATED ROPIVACAINE AND DEUTERATED 3-HYDROXYROPIVACAINE FOR USE IN EQUINE MEDICATION REGULATION, in final draft October 2023.
522. Kimberly Brewer, Alberto Morales Briceño, Robert Holland, George Maylin, Clara Fenger, Andreas F. Lehnerand Thomas Tobin (2024) PEMOLINE, A NATURALLY OCCURRING SUBSTANCE IDENTIFIED IN EQUINE SAMPLES IN EUROPE AND ELSEWHERE: HISTORICAL REVIEW AND ANALYSIS. Pferdeheilkunde – Equine Medicine 40 (2024) 6 (November/December) 1–10.
523. Flaminio, M.J.B., Nydam, D.V., Sebastian, M., Bernard, W.V., Thomas Tobin, M.V.B., Hillegas, J.M. and Matychak, M.B., 2005. The mare reproductive loss syndrome (MRLS) and the eastern tent caterpillar: immunological testing of aborting mares. *Int J App Res Vet Med*, *3*, pp.207-216.  [Cited by 1](https://scholar.google.com/scholar?cites=18091498796447318014&as_sdt=4000005&sciodt=0,18&hl=en)
524. Kimberly Brewer a, Clara Fenger b, Abelardo Morales-Briceño c, Andreas F. Lehner d, George A. Maylin e, Robert Holland f L Dirikolu g and Thomas Tobin h. TRACE LEVEL IDENTIFICATIONS OF N-ETHYLNICOTINAMIDE IN RACING HORSES ASSOCIATED WITH A VITAMIN B3 SUPPLEMENT: CASE REPORTS AND ANALYSIS in final draft October 16th, 2024.
525. Andreas F. Lehner, Kimberly Brewer, Levent Dirikolu, Abelardo Morales Briceño, Robert Holland, George Maylin, Clara Fenger, and Thomas Tobin (2024)   
     “Benzoylecgonine Detections in Equine Plasma/Serum: A Proposed Interim Plasma Level Regulatory “Cut-Off”: Nachweis von Benzoylecgonin im Spurenbereich in Plasma/Serum von Pferden: ein vorgeschlagener vorläufiger regulatorischer „Cut-off“ für den Plasmagehalt; Submitted for publication to Pferdeheilkunde – Equine Medicine, September 12th, 2024.
526. Da Silva, Estefanny, Valentina Rossini, Luis Rivero, Abelardo Morales, Aniceto Mendez, Kimberly Brewer, and Thomas Tobin. 2014. Detección de furosemida y otras substancias en caballos de carrera/Furosemide and detection of foreign substances in race horses. *Archivos Venezolanos de Farmacologia y Terapéutica* 33, (4): 76-79, https://go.openathens.net/redirector/uky.edu?url=https://www.proquest.com/scholarly-journals/detección-de-furosemida-y-otras-substancias-en/docview/1716886979/se-2 (accessed August 16, 2024)
527. Lehner AF, Craig M, Fannin N, Bush L, Tobin T. Fragmentation patterns of selected ergot alkaloids by electrospray ionization tandem quadrupole mass spectrometry. Journal of Mass Spectrometry. 2004 Nov;39(11):1275-86.
528. Lehner AF, Craig M, Fannin N, Bush L, Tobin T. Electrospray [+] tandem quadrupole mass spectrometry in the elucidation of ergot alkaloids chromatographed by HPLC: screening of grass or forage samples for novel toxic compounds. Journal of mass spectrometry. 2005 Nov;40(11):1484-502.
529. Andreas F. Lehner, Fernanda C. Camargo, Levent Dirikolu, John May, Thomas Tobin, David L. Christiansen and Peter L. Ryan:” Serum Concentrations of Ergovaline/Ergot Alkaloids in Horses Grazing Endophyte Positive [E+] Pasture: A Preliminary Report” Submitted for publication, Pferdeheilkunde, Equine Medicine, on or about October 2nd, 2024.
530. Andreas F. Lehner, Justin Holmes, Kimberly Brewer, Levent Dirikolu, Abelardo Morales Briceño, Robert Holland, George Maylin, Clara Fenger, and Thomas Tobin (2024) “Detections of 7-Carboxycannabidiol in US horseracing; A Review and Analysis” Approaching final draft November 2024.

**ABSTRACTS**

1. **Tobin T**, Sen AK: Ouabain inhibition and ligand affinities of the (Na++K+)-ATPase. Proc Fed Biol Soc 11, 93, 1968.
2. **Tobin T**, Sen AK: Ligand sensitivity and reversibility of ouabain binding to guinea pig (Na++K+)-ATPase. Proc Fourth Int’l Cong Pharmacology (Basel, 1969), 199, 1968.
3. **Tobin T**, Brody TM: Alkali metal cation stabilization of [3H]-ouabain binding to (Na++K+)-ATPase. Fed Proc 30, 780, 1971.
4. **Tobin T**, Akera T, Brody TM: The rates of dissociation of enzyme ouabain and apparent Ki values in (Na++K+)-ATPase from different species*. Pharmacologist* 13, 308, 1971.
5. Akera T, **Tobin T**, Brody TM: Influence of assay procedures on the study of ouabain inhibition of (Na++K+)-ATPase in vitro. *Pharmacologist* 13, 308, 1971.
6. **Tobin T**, Baskin SI, Akera T, Brody TM: Nucleotide specificity of the phosphorylation and [3H]-ouabain binding reactions of (Na++K+)-ATPase. Fed Proc 31, 583, 1972.
7. Akera T, Baskin SI, **Tobin T**: Potassium-induced conformational transition of the ouabain (Na++K+)-ATPase complex. Fluorescent probe studies. Fed Proc 31, 591, 1972.
8. **Tobin T**, Lee Cy, Akera T, Baskin SI, Brody TM: Effects of ethacrynic acid on the duration of transient pulses of [3H]-ouabain binding to guinea pig kidney (Na++K+)-ATPase. Proc Fifth Int’l Congress of Pharmacology, San Francisco, p 243, 1972.
9. Akera T, Lee CY, Baskin SI, **Tobin T**, Brody TM, Takahashi T: Comparative effects of chlorpromazine and its free radical on cytoplasmic membrane phenomena. Proc Fifth Int’l Congress on Pharmacology, San Francisco, p 3, 1972.
10. **Tobin T**, Akera T, Baskin SI, Brody TM: The mechanism of the calcium ion inhibition of Na ++k+-ATPase. Proc Fifth Int’l Study Group for Research in Cardiac Metabolism, Winnipeg, p 82, 1972.
11. Akera T, Baskin SI, **Tobin T**, Brody TM: Cardiac glycosides: Temporal relationship between the inotropic action and binding to and dissociation from Na++K+-ATPase in vitro. Proc Fifth Int’l Study Group for Research on Cardiac Metabolism, Winnipeg, p 80, 1972.
12. **Tobin T**, Banerjee SP, Sen AK: Ligand sensitivity of [3H]-ouabain binding to native and ethacrynic acid-treated enzyme. *Irish J Med Sci*, 1972.
13. Baskin SI, Akera T, **Tobin T**, Brody SL, Puckett CR: Effect of potassium canrenoate on cardiac functions and on Na++K+-ATPase. Fed Proc 32, 811, 1973.
14. **Tobin T**, Akera T, Baskin SI, Brody TM: [3H]-ouabain binding to Na++K+-ATPase: Inhibition by,-methylene ATP. Fed Proc 32, 709, 1973.
15. **Tobin T**, Brody TM, Lu MC: Reversible interaction of strophanthidin-bromacetate with the cardiotonic site of (Na-K) ATPase. *Pharmacologist* 15, 224, 1973.
16. Akera T, **Tobin T**, Ting D, Shieh I-S, Gatti A, Brody TM: Stabilizing effects of potassium on the ouabain-(Na++K+)-ATPase complex. *Pharmacologist* 15, 224, 1973.
17. Baskin TM, Akera T, **Tobin T**, Brody TM: Effect of 7, 8-dihydrochlorpromazine on Na-K-ATPase and cardiac function. *Pharmacologist* 15, 224, 1973.
18. Brody TM, Akera T, **Tobin T**, So RHM: Mechanical shaking of Na-K-ATPase: Loss of catalytic activity and release of specifically bound cardiac glycosides. *Pharmacologist* 15, 224, 1973.
19. Akera T, Baskin SI, **Tobin T**, Brody TM, Manian AA: 7,8-Dihydrochloropromazine: (Na++K+)-ATPase inhibition and positive inotropic effect. Presented at Third Int’l Symposium on Phenothiazines and Related Drugs, NIMU, Rockville, MD, June 25-28, 1973.
20. **Tobin T**, Akera T, Ku D, Brody TM, Lu MC: Strophanthidin-bromacetate: Reversible interaction with the cardiotonic steroid binding site of Na++K+-ATPase. Third Annual Michigan Cardiovascular Research Forum, Ann Arbor, Sept 25, 1973.
21. **Tobin T**: Studies on the two phosphoenzyme conformations of Na++K+-ATPase. NY Acad. Sci Meeting on NA++K+-ATPase. NY Acad Sci, NY, Nov 1973.
22. **Tobin T**: Lithium ion and Na++K+-ATPase: A molecular basis for its pharmacological actions. Winter Brain Research Conference, Steamboat Springs, CO, January 1974.
23. **Tobin T**, Akera T, Brody TM: Lithium, rubidium, and Na ++K+-ATPase: A molecular basis for their pharmacological actions. Fed Proc 33, 483, 1974.
24. Akera T, **Tobin T**, Brody TM: Ouabain-Na++K+-ATPase complex: Evidence for more than two forms. Fed Proc 33, 491, 1974.
25. **Tobin T**, Akera T, Taneja HR, Brody TM: Affinity labeling of Na ++K+-ATPase. I. Strophanthidin 3,5-bisparabenzylbenzoate, a photochemical analogue of strophanthidin. Canad Fed Biol Societies, presentation, Societies Meeting, Hamilton, Ontario, June 1974.
26. Ku D, Akera T, **Tobin T**, Brody TM: Effects of monovalent cations on cardiac Na, K-ATPase activity and on contractile force. *Pharmacologist* 15, 326, 1974.
27. **Tobin T**, Akera T, Ku D, Brody TM: Cassaine: Its mechanism of inhibition of Na++K+-ATPase and the relationship of this inhibition to its cardiotonic actions. Fourth Annual Michigan Cardiovascular Research Conference, Detroit, MI, September 20, 1974.
28. Akera T, Young RC, **Tobin T**, Brody TM: Estimation of maximal ouabain binding to Na, K-ATPase and tissue differences in enzyme turnover. *Pharmacologist* 16, 293, 1974.
29. **Tobin T**, Akera T, Brody TM: Shodomycin a nucleotide site directed inhibitor of Na ++K+-ATPase. Fed Proc 34, 715, 1975.
30. **Tobin T**, Abramson H: Affinity labeling of Na ++K+-ATPase: Digoxigenin-3-12-di-bromacetate, an alkylating derivative of digoxigenin. Presented at 1975 Winter Conference for Brain Research, Steamboat Springs, CO.
31. Ku D, Akera T, **Tobin T**, Brody TM: Comparative species studies on the effect of monovalent cations and ouabain on cardiac Na++K+-ATPase and contractile force. Fed Proc 34, 792, 1975.
32. **Tobin T**, Blake JW: The pharmacokinetics and behavioral effects of procaine in Thoroughbred horses. Second Int’l Doping Research and Control Conference, Newmarket, England, May 1976.
33. Roberts BL, Blake JW, **Tobin T**: Pharmacodynamics and drug interactions of furosemide in the horse. 1st Int’l Toxicology Conference, Toronto, Ontario, 1977.
34. Miller JR, Blake JW, **Tobin T**: Detection and pharmacokinetics of apomorphine in the horse. 1st Int’l Toxicology Conference, Toronto, Ontario, 1977.
35. Widest SA, Akera T, Brody TM, **Tobin T**: Effects of potassium on the inotropic action of digoxin. Fed Mtgs, Chicago, 1977.
36. White CG, Woods WE, **Tobin T**: The pharmacology of reserpine in the horse. II. Effects of reserpine and imipramine on platelet uptake of serotonin. 7th Int’l Congress of Pharmacology, Paris, France, 1978.
37. White CG, Woods WE, **Tobin T**: Biochemical and behavioral effects of reserpine in the horse. For presentation and publication, SOT Mtg, New Orleans, March 1979.
38. Shults T, Combie J, Dougherty J, **Tobin T**: Pharmacokinetics and behavioral effects of cocaine in the horse. For presentation and publication, SOT Mtg, New Orleans, LA, March 1979.
39. Combie J, Shults T, Nugent E, **Tobin T**: Pharmacokinetics and behavioral effects of fentanyl in the horse. For presentation and publication, SOT Mtg, New Orleans, LA, March 1979.
40. Combie J, Shults, **Tobin T**: The pharmacokinetics and behavioral effects of fentanyl and other narcotic analgesics in the horse. Abstr., Third Int’l Symposium on Equine Medication Control, Lexington, KY, 1979.41.Shults T, Combie J, Dougherty J, **Tobin T**: Variable interval scheduling in the horse: A sensitive measure of behavior. Ibid, 1979.
41. Chay S, Woods WE, **Tobin T**: The pharmacokinetics of flunixin in the horse. Third Symposium of American Academy of Veterinary Pharmacology and Therapeutics, Ohio State University, Columbus, 1982.
42. Weld JM, Combie J, Nugent T, Oeltgen P, **Tobin T**: Hemorrhagic and endotoxin shock in horses: Effects of naloxone treatment on cardiovascular performance. Ibid, 1982.
43. Chay S, Woods WE, **Tobin T**: The pharmacokinetics and blood levels of furosemide after intravenous administration. Fifth Int’l Conf Control of Use of Drugs in Racehorses. Toronto, Canada, 1983.
44. Houston TE, **Tobin T**, Blake JW: The effect of urinary pH on oxyphenbutazone concentrations in equine urine. Ibid, 1983.
45. Collett LJ, Kamerling S, Nugent T, Weckman TJ, Woods WE, DeQuick D, **Tobin T**: Clearance times and behavioral effects of clenbuterol in the horse. Ibid. 1983.
46. Kamerling S, DeQuick D, Nugent T, Weckman TJ, **Tobin T**: Phenylbutazone: Lack of effect on normal cutaneous pain perception in the horse. Ibid, 1983.

**(AFTER 1983 ABSTRACTS WERE NO LONGER RECORDED FOR A PERIOD, THEN RECORDING COMMENCED AGAIN FOR A PERIOD IN 1991)**

1. Jeganathan, A., Park, O.S., Steviov, I., Ravard, A., Vasudevan, S., Yang, J., Stanley, S., Woods, W.E., Tai, H-H., Blake, J.W., **Tobin, T**., and Watt, D.: Strategies for the development of effective ELISA tests for controlling medicants and illegal drugs in racing horses. Submitted for presentation at The World Veterinary Conference XXIV, Rio De Janeiro, Brazil, Aug. 1991.
2. Yang, J., Stanley, S., Jeganathan, A., Park, O.S., Steviov, I., Ravard, A., Vasudevan, S., Woods, W.E., Watt, D., Tai, H-H., Blake, J.W., and **Tobin, T**.: High sensitivity ELISA tests for drugs abused in racing horses. Submitted for presentation at The World Veterinary Conference XXIV, Rio De Janeiro, Brazil Aug. 1991.
3. Roth, L., Harbison, R.D., James, R.C., **Tobin, T**., and Roberts, S.M.: Localization of cocaine and metabolites in liver sections: Effect of enzyme inducer pretreatment. Submitted for publication and presentation, SOT Mtg, Seattle, WA, February 1992.
4. Stanley, S.D., Huffman, M., Sadove, D., Cole, N., Diana, J.N., Tai, H-H., Gairola, C.G. and **Tobin, T**. Salivary levels of cotinine and wound healing in post-surgical patients: A preliminary report. Submitted for publication and presentation, SOT Mtg, Seattle, WA, February 1992.
5. Gairola, C.G., Stanley, S.D., Diana, J.N., Tai, H-H. and **Tobin, T**.: Urinary excretion of cotinine in chronically cigarette smoke-exposed mice. Submitted for publication and presentation, SOT Mtg, Seattle, WA, February 1992.
6. Yang, J.M., Woods, W.E., Tai, H-H., Watt, D.S. and **Tobin, T**.: Development of highly sensitive ELISA for fluphenazine in horses. Submitted for publication and presentation, SOT Mtg, Seattle, WA, February 1992.
7. Woods, W.E., Stanley, S., Yang, J-M., Cook, D., Gerkin, D., Detra, R., Sams, R., Watt, D., Tai, H-H., and **Tobin, T**.: ELISA detection of azaperone the racehorse. Submitted for presentation at The Ninth International Conference of Racing Analysts and Veterinarians. New Orleans, LA, March,1992.
8. Stanley, S.D., Wood, T.W., Selonen, J.S., Yang, J-M., Watt, D., Tai, H- H., and **Tobin, T**.: Detomidine clearance in the horse as determined by ELISA. Submitted for presentation at The Ninth International Conference of Racing Analyst and Veterinarians. New Orleans, LA, March 1992.
9. Yang, J-M., Stanley, S., Woods, W.E., Cook, D., Tai, H-H., Watt, D., and **Tobin, T**.: The procaine ELISA screening in racing horses. Submitted for presentation at The Ninth International Conference of Racing Analyst and Veterinarians. New Orleans, LA, March 1992.
10. Roth L, Harbison R, James R, **Tobin T**, Roberts S. Cocaine hepatotoxicity: Influence of hepatic enzyme inducing and inhibiting agents on the site of necrosis. Submitted for publication to SOT, Seattle, Washington, 1992.
11. Stanley, SC, Huffman, M, Sadove, Rn, Cole, N, Diana JN, Gairola CG, Tai H-H and **Tobin T**: Salivary levels of cotinine and wound healing in post-surgical patients: a preliminary report. Society of Toxicology. Annual Meeting, Seattle, Washington, February 1992.
12. Determination of highest no-effect doses (HNEDS) for local anesthetic responses to procaine, cocaine, bupivacaine and benzocaine in thoroughbred mares.
13. Character and duration of pharmacological effects of intravenous Isoxsuprine.
14. Significance of procaine residues in post-race urine samples.
15. Effect of α-phenyl-*tert*-butylnitrone on endotoxin toxemia in horses.
16. The pharmacokinetics and bioavailability of amantadine in the horse: A preliminary report.
17. An analysis of prohibited substances in Kentucky with emphasis on strategies for practitioners to avoid problems.
18. Quantification of the sedative effect of amitraz in the horse.
19. An overview of dietary, environmental and endogenous substances of regulatory concern in racing horses.
20. Fifth Symposium of Environmental Toxicology and Risk Assessment: Biomarkers and Risk Assessment. An Overview of Dietary, Environmental and Endogenous Substances of Regulatory Concern in Racing Horses.
21. Testing for Drugs, Medications and Other Substances in Racing Horses.
22. Quantification of the Sedative Effect of Amitraz in the Horse.
23. Character and Duration of Pharmacological Effects of Intravenous Isoxsuprine.
24. Significance of Procaine Residues in Post-Race Urine Samples.
25. Effect of a-Phenyl-tert-butylnitrone on Endotoxin Toxemia in Horses.
26. Determination of Highest No-Effect Doses (HNEDS) for Local Anesthetic Responses to
27. Procaine, Cocaine, Bupivacaine, and Benzocaine in Thoroughbred Mares.
28. Quantitation of the Locomotor Effect of Therapeutic Medication in a Behavior Chamber.
29. ELISA and GC/MS Detection of Cocaine.
30. Testing for Therapeutic medications, Environmental and Dietary Substances in Racing Horses: Outcomes of the Workshop Held in Lexington, August 1994.
31. A Review of a Consequence of Highly Sensitive Drug Testing: The Need for Data on Analytical/ Pharmacological Relationships for Therapeutic Medications.
32. Lidocaine: Dose Response Relationships and Analytical Detection in Horses.
33. Pharmacokinetics and Bioavailability of Amantadine in the Horse: A Preliminary Report.
34. Analytical Detection and Preliminary Pharmacokinetics of Toltrazuril and Diclazuril in the Horse.
35. A Clinical Report on Diclazuril Treatment for Equine Protozoal Myeloencephalitis.
36. Diclazuril and Equine Protozoal Myeloencephalitis.
37. Development of an Equine Behavior Chamber and Effects of Amitraz, Detomidine, and Acepromazine on Spontaneous Locomotor Activity.
38. Preliminary Pharmacokinetics of Diclazuril and Toltrazuril in the Horse.
39. Therapeutic Efficacy of Rimantadine HCL in Experimentally Induced Influenza: An Illness in Horses.
40. Review of a Consequence of Highly Sensitive Drug Testing: The Need for Data on Analytical-Pharmacological Relationships for Therapeutic Medications.
41. Testing for Therapeutic Medications: Analytical / Pharmacological Relationships and the Need for Limitations on the Sensitivity of Testing for Certain Agents- A Work in Progress. Jan. 22, 1998.
42. Detection and Quantitation of 2-Hydroxylidocaine in Horse Urine.
43. ELISA Assay for Fluoxetine.
44. Detection and Quantitation of 3-Hydroxybupivacaine in Horse Urine.
45. Detection and Quantitation of 3-Hydroxymepivacaine in Horse Urine.
46. Karpiesiuk W, Lehner AF, Fisher M, **Tobin T**: Synthesis of the Equine Metabolites of Four Xylidide Local Anesthetics. 65th Annual Meeting AORC, March 1999.
47. Harkins JD, Holtz C, Boyles J, Woods E, Lehner AF, Carter W, Karpiesiuk W, Fisher M, **Tobin T**: Behavioral and Cardiac Effects of Clenbuterol and Furosemide in the Horse: An Overview. 65th Annual Meeting AORC, March 1999.
48. Dirikolu L, Lehner F, Harkins JD, Woods WE, Carter WG, Karpiesiuk W, Boyles J, Fisher M, **Tobin T**: Identification of Lidocaine and Its Metabolites in Post Administration Equine Urine By Elisa and MS/MS. 65th Annual Meeting AORC, March 1999.
49. Woods WE, Lehner A, Bosken J, Holtz C, Fisher M, **Tobin T**: Elisa and GC/MS Detection of Isoxsuprine in Equine Urine. 65th Annual Meeting AORC, March 1999.
50. Carter WG, Lehner AF, Dirikolu L, Woods WE, Karpiesiuk W, Harkins JD, Boyles JE, Jacobs J, Fisher M, **Tobin T**: Detection and Characterization of Ropivacaine Metabolites in Horse Urine. 65th Annual Meeting AORC, March 1999.
51. Holtz C, Woods WE, Dirikolu L, Lehner F, Carter W, Harkins JD, Karpiesiuk W, Fisher M, **Tobin T**: Clenbuterol in the Horse: A Preliminary Analytical Report. 65th Annual Meeting AORC, March 1999.
52. Lehner AF, Hunsucker A, Bosken JM, Harkins JD, Woods WE, Karpiesiuk W, Carter WG, Boyles J, Fisher M, **Tobin T**: Further Characterization of Equine Isoxsuprine Metabolites By Electrospray Ionization Tandem Mass Spectrometry. 65th Annual Meeting AORC, March 1999.
53. Bosken JM, Lehner AF, Hunsucker A, Harkins JD, Woods WE, Karpiesiuk W, Carter WG, Boyles J, Fisher M, **Tobin T**: Isoxsuprine Conjugates Identified in Equine Urine By Direct Injection ESI/MS/MS. 65th Annual Meeting AORC, March 1999.
54. Boyles J, Woods WE, Harkins D, Lehner F, Karpiesiuk W, Dirikolu L, Bosken J, Carter W, Jacobs J, Fisher M, **Tobin T**: Procedures and Quality Assurance Aspects of the Testing Integrity Program. 65th Annual Meeting AORC, March 1999.
55. Harkins, JD and **Tobin T**. Highest No-Effect Dose for Pharmacological Responses to Acepromazine in the Horse: A Preliminary Communication. Research Committee of the Testing Integrity Program, May 2002.
56. **Tobin T**, McDowell K, Hughes C, Lehner A, Crutchfield J, Harkins JD, Dirikolu L, Sebastian M, Harrison L, Williams N, Smith R, Webb B, Bush L, Newman K, Allman R, Dwyer R and Powell D: The Kentucky 2001 Mare Reproductive Loss Syndrome: Overview and Preliminary Toxicological Approaches. 14th International Conference of Racing Analysts and Veterinarians, July 2002.
57. Dirikolu L, Lehner AF, Hughes C, Karpiesiuk W, Camargo FC, Harkins JD, Woods WE, Bosken J, Boyles J, Troppmann A, Fisher M and **Tobin T**: Detection, Quantification and Pharmacokinetics of Furosemide (Salix®) Following Intravenous Administrations in Horses. 14th International Conference of Racing Analysts and Veterinarians, July 2002.
58. Harkins JD and **Tobin T**: Pharmacodynamics of Guanabenz and Related α Agonists. 14th International Conference of Racing Analysts and Veterinarians, July 2002.
59. Lehner A.F, Hughes C, Woods WE, Harkins JD, Karpiesiuk W, Dirikolu L, Bosken J, Boyles J, Troppmann A, Fisher M and **Tobin T**: Proposed Methodology for the Detection of Oxyglobin® in Equine Plasma. 14th International Conference of Racing Analysts and Veterinarians, July 2002.
60. Karpiesiuk W, Lehner AF, Dirikolu L, Fisher M, **Tobin T**: Synthesis and Characterization of Deuterated Standard of Furosemide (Salix®). 14th International Conference of Racing Analysts and Veterinarians, July 2002.
61. Hughes C, Lehner A, Crutchfield J, Woods W, Harkins J, Karpiesiuk W, Dirikolu L, Sebastian M, Troppmann A, Boyles J, Bosken J, Harrison L, **Tobin T**: Analytical Detection and “Normal” Population Data of Cyanide and Thiocyanate in Equine Blood and Serum. 14th International Conference of Racing Analysts and Veterinarians, July 2002.
62. Camargo F, Dirikolu L, Sebastian M, Hughes C, Crutchfield J, Harkins D, Boyles J, Troppmann A, McDowell K, Harrison L and **Tobin T**: The Toxicokinetics of Cyanide and Mandelonitrile in the Horse and Their Relevance to the Mare Reproductive Loss Syndrome. 14th International Conference of Racing Analysts and Veterinarians, July 2002.
63. Dirikolu L, Mollett BA, Woods WE, Bratton C, Lehner AF, Karpiesiuk W, Hughes C, Boyles J, Harkins JD, Troppmann A, and **Tobin T**: ELISA “Detection Times” of Albuterol after Torpex™ Administration: A Preliminary Report. 14th International Conference of Racing Analysts and Veterinarians, July 2002.
64. Certified Reference Standards and Stable Isotope Internal Standards for Equine Medication Regulation. Seventh Kentucky Innovation and Entrepreneurship Conference (KSEF). Louisville, KY. May 2011.
65. Equine Medication Regulation: Stable Isotope Internal Standards and Certified Reference Standards. Sixth Kentucky Innovation and Entrepreneurship Conference (KSEF). Lexington, KY. April 2010.
66. R. Eisenberg, S. Kudrimoti, C. G. Hughes, G. A. Maylin, and **T. Tobin**. Dihydromethylprednisone, an isomeric metabolite of methylprednisolone: synthesis of an analytical standard. Presented at the 20th International Conference of Racing Analysts and Veterinarians, Sugar Beach, Mauritius, September 2014.
67. Fenger, Clara K., **Tobin, T**homas, Casey, Patrick J., Roualdes, Edward A., Langemeier, John L., and Haines, Deborah M. Effects of Bovine Colostrum on Performance and Recovery in Racing Thoroughbreds: Abstract and Presented at the 20th International Conference of Racing Analysts and Veterinarians, Sugar Beach, Port St. Louis, Mauritius, September 15th, 2014.
68. C. Richard Harden, Kimberly Brewer, Charlie Hughes, and **Thomas Tobin**. "Shipping-in" – a risk factor associated with fatal musculoskeletal racing injuries Abstract and Presented at the 20th International Conference of Racing Analysts and Veterinarians, Sugar Beach, Port St. Louis, Mauritius, September 15th, 2014.
69. S. Kudrimoti, R. Eisenberg, G. A. Maylin, Charlie Hughes, and **T. Tobin**. Synthesis and characterization of 4-hydroxyxylazine and 4-hydroxyxylazine-d6 standards for use in xylazine regulation in competition horses: Presented at the 20th International Conference of Racing Analysts and Veterinarians, Sugar Beach, Port St. Louis, Mauritius, September 15th, 2014.
70. S. Kudrimoti, R. Eisenberg, G. A. Maylin, C.G. Hughes and **T. Tobin**. 20-Dihydroprednisone: Synthesis of an isomeric equine metabolite of prednisolone for use as an analytical standard; Presented at the 20th International Conference of Racing Analysts and Veterinarians, Sugar Beach, Port St. Louis, Mauritius, September 15th, 2014
71. A.M. Briceño, A.M. Sanchez, R.H. Galley, K. Brewer, C. Hughes, **T. Tobin**. Increased Incidence of Sudden Death Associated with Exercise Induced Pulmonary Hemorrhage (EIPH) in Horses Racing at Higher Altitude in Venezuela: Presented at the 20th International Conference of Racing Analysts and Veterinarians, Sugar Beach, Port St. Louis, Mauritius, September 15th 2014
72. A. Morales, A. Méndez, M. Armas, C. Guarino, M. Moya, E. Suniaga, K. Brewer, **T. Tobin**. 2.2 Título del Trabajo: Efecto de la terapéutica combinada Levotiroxina-Clembuterol en ratones Balb/c y ratas Sprague-Dawley. 2.3 Nombre del Congreso (entidad patrocinante): 76 Aniversario del Instituto Nacional de Higiene Rafael Rangel y 37 Jornadas Científicas 2.4 Fecha: Noviembre, 2014. 2.5 Ciudad y País: Caracas, Venezuela
73. A. Morales, A. Méndez, M. Armas, C. Guarino, M. Moya, E. Suniaga, K. Brewer, **T. Tobin**. 3.2 Título del Trabajo: Efecto de la terapéutica combinada Levotiroxina-Clembuterol sobre la arteria aorta en ratones Balb/c. 3.3 Nombre del Congreso (entidad patrocinante): 76 Aniversario del Instituto Nacional de Higiene Rafael Rangel y 37 Jornadas Científicas 3.4 Fecha: Noviembre, 2014. 3.5 Ciudad y País: Caracas, Venezuela
74. A. Morales, A. Mendez, M. Armas, C. Guarino, M. Moya, E. Suniaga, K. Brewer, **T. Tobin**. 4.2 Título del Trabajo: Efecto de la levotiroxina-clembuterol sobre la arteria aorta en ratas Sprague Dawley. 4.3 Nombre del Congreso (entidad patrocinante): XXIII Jornadas Científicas Dr. Francisco de Venanzi, Instituto de Medicina Experimental Dr. José Gregorio Hernández. 4.4 Fecha: Noviembre, 2014. 4.5 Ciudad y País: Caracas, Venezuela

**Cumulative research and other support, 1970 – January 1, 2024, About $US16,500,000.00**

Tobin,Thomas, May 18th, 1983, Testimony in Hearings before the Subcommittee on Criminal Justice of the Committee on the Judiciary, House of Representatives 98th Congress, First Session on Corrupt Horseracing Practices, May 18, 1983, serial number 156, starting page 116 and including analysis and rebuttal of previous testimony, testimony by T Tobin, responses to questions by committee members and extensive supporting documentation including many Tobin publications.

**THOMAS TOBIN BIOSKETCHES:**

**225 WORD BIO.**

**Thomas Tobin** is a Veterinarian,) Pharmacologist (1970) and Toxicologist. His MVB is from University College, Dublin (1964), his PhD from the Medical center in the University of Toronto, 1970, where he was a Massey College Junior Fellow.

His early research was on the Somali arrow poison, ouabain, a highly specific inhibitor of the Sodium-Potassium ATPase pump.  He worked on Sodium-Potassium ATPase from 64-74, including while on faculty at Michigan State University Veterinary School. In 1975 he went to the University of Kentucky to run the Kentucky Equine Medication Research program.

In Kentucky he published the plasma threshold for furosemide and wrote “Drugs and The Performance Horse”. He was asked to develop a test for Etorphine; he developed an immunoassay test, introducing ELISA tests to horseracing, and leading to the Neogen line of Equine ELISA tests.

He next patented Diclazuril as a prevention/treatment for Equine Protozoal myelitis, (EPM) a neurological disease of American horses; this work resulted in Bayer Marquis, the first FDA approved treatment for EPM.

In 2001 he worked on the Kentucky Mare Reproductive Loss Syndrome [MRLS]; he soon proposed a unique probabilistic mechanism for MRLS, which description is copyrighted.

Since 2004 he has worked on the synthesis and certification of reference standards and internal standards for equine therapeutic regulation and also in the area of regulatory thresholds for equine therapeutic medications. <https://gluck.ca.uky.edu/directory/thomas-tobin> and [www.thomastobin.com](http://www.thomastobin.com).

**150 WORD BIO**

**Thomas Tobin**, Member, Royal College of Veterinary Surgeons, 1964, PhD, Pharmacology, University of Toronto, 1970, Toxicologist, Diplomate of the American Board of Toxicology, 1980-2105, Professor, Veterinary Science, Professor, Dept. of Toxicology and Cancer Biology, Univ. of Kentucky, 1975-date, **Author,** 480 page textbook “Drugs and the Performance Horse” Charles C Thomas, 1981, **500** or so **Research Papers Communications.**  1983, **Testimony before Congress** re equine medication; **Inventor,** 1985, 80 ELISA tests for horseracing, **first company “spun off” from UK**, now the Neogen Lexington drug testing ELISA tests. Patent holder, **US Patent** # 5,883,095 Diclazuril for Equine Protozoal Myeloencephalitis, first FDA approved treatment for EPM, 1999, marketed as Bayer Marquis and also as Merck Protazil, commercially significant Intellectual properties, also other patents. **Innovator, US Copyright# TXU1111484** of the unique biological mechanism of the Mare Reproductive Loss Syndrome. Currently synthesizes 40 plus **Certified Reference Standards** and **Stable Isotope Internal Standards** for medication regulation worldwide, . <https://gluck.ca.uky.edu/directory/thomas-tobin> and [www.thomastobin.com](http://www.thomastobin.com).

**140 WORD BIO**

**Thomas Tobin** is a Veterinarian, Dublin (1964), PhD, Med. Ctr., U. Toronto, 1970. He researched Sodium-Potassium ATPase from 1964-1974, at which time he was an Associate Professor in the MSU Veterinary School. In 1975 he went to the University of Kentucky, where he wrote “Drugs and the Performance Horse” and published the plasma threshold for Lasix. In the eighties he introduced ELISA tests to horseracing, leading to the Neogen line of ELISA tests. In the nineties he patented Diclazuril as a prevention/treatment for Equine Protozoal myelitis, (EPM) leading to Bayer Marquis, the first FDA approved treatment for EPM. In 2001 he started working on the Mare Reproductive Loss Syndrome [MRLS], soon proposing a unique probabilistic mechanism for MRLS. Since 2004 he has focused on the synthesis and certification of reference standards and internal standards for equine therapeutic medication regulation. . <https://gluck.ca.uky.edu/directory/thomas-tobin> and [www.thomastobin.com](http://www.thomastobin.com).

**MASSEY COLLEGE BIO, 183 WORDS:**

***Thomas Tobin*** *became a Member of the Royal College of Veterinary Surgeons in 1964 and graduated with a Ph.D. in Pharmacology at U of T in 1970, where he was a Massey College Junior Fellow from 1968-1970. He was a Toxicologist, Diplomate of the American Board of Toxicology from 1980 to 2105 and has been a Professor of Veterinary Science in the Gluck Equine Research Center and the Department of Toxicology and Cancer Biology at the University of Kentucky since 1975. Among his other achievements, he is the author of the textbook “*Drugs and the Performance Horse”*, published in 1981 with a foreword by HRH The Prince Philip, Duke of Edinburgh, a long time Massey College Honorary Senior Fellow. He has also published some 500 research papers and has invented and patented several equine-related drugs and tests. Currently, he is synthesizing Certified Reference Standards and Stable Isotope Internal Standards for medication regulation worldwide. In 1983, as the photo above, Dr. Tobin gave testimony on equine drug testing before the US House of Representatives Judiciary Subcommittee on Criminal Justice. <* . <https://gluck.ca.uky.edu/directory/thomas-tobin> and [www.thomastobin.com](http://www.thomastobin.com).

**RESEARCH INTEREST STATEMENT, JAN 2023 TO FEBRUARY 2024, 427 WORDS**

The Equine Pharmacology, Therapeutics and Toxicology (EPTT) program has a number of research interest areas, as follows.

1/ The EPPT program synthesizes and provides the equine industry worldwide with Certified Reference Standards and Stable Isotope Internal Standards for regulated therapeutic medications, endogenous, dietary, and environmental substances.  These standards may be unique equine metabolites of the specific substances, making these syntheses at times challenging.

2/ Creation of these standards by the EPTT program made “thresholds” for therapeutic medications possible. These EPTT standards, as Certified Reference Standards, are licensed for worldwide distribution.

3/ The EPTT program has made available worldwide 60 or so of these reference standards. Current research is focused on standards for Detomidine, Ropivacaine, Bupivacaine, and Dantrolene, with synthesis of 3-OH-Ropivacaine, 3-OH-Bupivacaine, Ropivacaine-d7, Bupivacaine-d9, 3-OH-Ropivacaine-d7 and 3-OH-Bupivacaine-d9 just completed and the standards transferred to Frontier BioPharm, LLC, for certification and worldwide distribution. A research paper on the Bupivacaine standards has been submitted for publication and a second research paper on the Ropivacaine standards is ready for submission as we speak.

4/ Related published contributions include the identification of “Screening Limits” (thresholds) for dietary and environmental substances, an ongoing regulatory concern as analytical testing continues to increase in sensitivity. As we speak the EPPT program has published, in press or submitted five papers presenting Screening Limits for 20-HydroxyEcdysone, a plant substance, Pemoline, a central nervous system stimulant apparently found at low concentrations in plants, Methamphetamine and Fentanyl, human use and abuse substances occasionally transferring at trace level to horses and Metformin, a widely prescribed high dose human antidiabetic medication found in stream water in the United States and also at times detected at trace levels in horses.

5/ The EPTT program has also organized and presented the Seventh and Eight Tex Cauthen / Hans Albrecht Farrier / Veterinarian / Researcher Seminars, one day seminars presented on the Sunday closest to January 22nd of each year. These seminars are presented live in The Maxwell H. Gluck Equine Research Center auditorium and are accessible worldwide by ZOOM. <https://cauthenseminar.com/event/2024/>. The Gluck audience is usually about sixty people, and the worldwide ZOOM audience has at times been close to 200. The most recent Eight seminar focused on the use of motion sensor technologies in evaluating equine gaits, and the afternoon session focused on laminitis. These seminars are videotaped and are approved for Continuing Education credit for Veterinarians and Veterinary Technicians.by the Kentucky Board of Veterinary Examiners. The 2024 Tex Cauthen seminar video can be viewed at or the previous seminars at [cauthenseminar.com/past-seminars](https://nam04.safelinks.protection.outlook.com/?url=https%3A%2F%2Fcauthenseminar.com%2Fpast-seminars%2F&data=05%7C02%7Cttobin%40uky.edu%7Cfb4ccf7cf29440c866ce08dc226e0ba8%7C2b30530b69b64457b818481cb53d42ae%7C0%7C0%7C638423103240475808%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C0%7C%7C%7C&sdata=x9Ee%2BlbpAhTbm%2Fjd3t%2F43sv2grjG9XXA644u92z9jbM%3D&reserved=0)

**RECENT TRADE JOURNAL ARTICLES:**

Fenger, C., T. Boulmetis, K. Brewer, K. Stirling and **T. Tobin** (2016). "Methamphetamine : a substance of emerging environmental concern for horse racing." Horsemen's Journal 63(3): 39-43.

Fenger, C., T. Boulmetis, K. Brewer and **T. Tobin** (2016). "The lowdown on out-of-competition testing." Horsemen's Journal 63(4): 43-47.

Fenger, C., T. Boulmetis and **T. Tobin** (2017). "Out in the cold : ingredients in over-the-counter cold medicines can wreak havoc on a trainer's livelihood and an owner's prized racehorse." Horsemen's Journal 64(1): 40-42.

Fenger, C., M. Catignani, J. Machin and **T. Tobin** (2017). "An in-depth look at stall contamination." Horsemen's Journal 64(4): 41-44.

Fenger, C. and **T. Tobin** (2017). "Medication migration : the Charles Town naproxen experience and why it matters to all racing jurisdictions." Horsemen's Journal 64(3): 32-35.

Fenger, C., **T. Tobin** and P. Ecabert (2017). "No Lasix racing : good idea or failed experiment?" Horsemen's Journal 64(2): 27-30.

Fenger, C., P. Sacopulos and **T. Tobin** (2018). "Trace-level identifications are not positives : the scientifically correct and public-relations appropriate approach to medication regulation." Horsemen's Journal 65(2): 43-47.

Fenger, C., S. Selway and **T. Tobin** (2018). "Lasix lessons learned : science confirms what American horsemen knew 50 years ago." Horsemen's Journal 65(3): 48-50.

Shults, T. F., K. Brewer, J. Machin, E. Hamelback and **T. Tobin** (2018). "Rational reasoning on ractopamine." Horsemen's Journal 65(1): 44-45.

Clara Fenger, DVM, PhD, DACVIM; Thomas Tobin, MRCVS, PhD, DABT; Maria Catignani; and Theodore Shults 2018 Hitting the Threshold of Common Sense: The time for screening limits to guard against environmental transfer is now Winter 2018 Issue of  *The Horsemen's Journal*, v. 65, no. 4, p. 43-45.

# Clara Fenger, DVM, PhD, DACVIM; Kimberly Brewer DVM, MSc Wayne Duer, PhD and Thomas Tobin, MRCVS, PhD, DABT; FEED FORAGE AND BEDDING WHAT IS BEING CALLED POSITIVE ? P38-42 Volume 66/#1Spring 2019 Issue of The Horsemen’s Journal (#1 2019)

# Kimberly Brewer DVM, MSc, Clara Fenger, DVM, PhD, DACVIM; Thomas Tobin, MRCVS, PhD, DABT; THE BENEFITS OF LASIX FOR EXERCISE INDUCED PULMONARY HEMORRHAGE ; FIFTY YEARS OF SCIENCE AND CLINICAL EXPERIENCE; P43-46 SUMMER 2019 Issue of The Horsemen’s Journal (#2 2019)

# Kimberly Brewer, Clara Fenger, and Thomas Tobin “The Truth about Medications, Veterinary Care, and Breakdowns. Fall 2019 Issue of The Horseman’s Journal, V66 #3 Pages 36-41. (#3 2019)

# Kimberly Brewer, Clara Fenger, Jake Machin, and Thomas Tobin “The push to administer Lasix at 24 hours; A look at what today’s science says” Winter 2019 Issue of The Horseman’s Journal, pages 37-39 (#4, 2019)

# Fenger, C., Basler, D., Tobin, T, and Brewer K; (2020) Breakdown Injuries: What we know and what we don’t know: An examination of the many factors that can contribute to breakdowns: The Horsemen’s Journal, Spring 2020 Issue p 32-37. (#1 2020)

# Fenger, C., Brewer K, Sacopolus, P, Machin J and Tobin, T, (2020) Lidocaine Positives in Arkansas; The Horsemen’s Journal, Summer 2020 Issue pages 44-49. (#2, 2020)

# Kimberly Brewer, Clara Fenger, Jake Machin, Maria Catignani and Thomas Tobin:(2020) Gabapentin: Classic Human Medication Transferring in TRACE Amounts to Racing Horses The Horsemen’s Journal, Fall Issue, p44-47. (#3 2020)

# Kimberly Brewer, DVM, MSc; Clara Fenger, DVM, PhD, DACVIM; Peter Sacopulos, JD; and Thomas Tobin, MRCVS, PhD, DABT Vetting the Federal Horse Racing Bill *The Horse Racing Integrity and Safety Act can be improved. Here’s how.* The Horsemen’s Journal, Winter Issue, in press p4-y8. (#4b, 2020)

Kimberly Brewer, DVM MSc, Clara Fenger, DVM PhD DACVIM, Jake Machin, BSc, Thomas Tobin MRCVS, PhD, DABT. “**Medroxyprogesterone Acetate: From Innocuous Substance to Class B Penalty** A cautionary tale about the medication commonly used for fillies and mares” The Horsemen’s Journal, Winter 2020, Pages 44-47.

Kimberly Brewer, DVM MSc, Clara Fenger, DVM PhD DACVIM, Andreas Lehner PhD, Theodore F Shults JD Ms, Thomas Tobin MRCVS, PhD, DABT. “**Testing Times** Following a sample from collection to a positive, how drug testing is done in 2021 and what it means” The Horsemen’s Journal, Summer 2021 Pages 40- 45

Jacob Machin, MS, Kimberly Brewer, DVM, MSc, Clara K. Fenger, DVM, PhD, DACVIM, Sahar White Springer, PhD , Abelardo Morales-Briceno, DVM and Thomas Tobin, PhD, MRCVS, DABT,

**Zilpaterol and Ractopamine: Reaching Consensus on Trace-Level Transfers to Racehorses**  
Worldwide clusters show trace-level positives typically result from contaminated feed. The Horsemen’s Journal, Fall, 2021 Pages 38-40-42.

Clara Fenger, DVM, PhD, DACVIM, Peter J Sacopolus, JD, Kimberly Brewer DVM, MSc., Jacob Machin, PhD, Thomas Tobin. MRCVS, PhD. DABT. 2021 :Clusters of Aminocaproic Acid Positives Across the Country: The Horsemen’s Journal, p34-37, Winter 2021.

Clara Fenger, DVM, PhD, DACVIM, Peter J Sacopolus, JD, Kimberly Brewer DVM, MSc., Jacob Machin, PhD, Thomas Tobin. MRCVS, PhD, DABT. Ready or not; What awaits racing come July 1 thanks to the Horse Racing Integrity and Safety Act of 2020 The Horsemen’s Journal V69, #2 p18-30, Summer, 2022.

Clara Fenger, DVM, PhD., Peter J Sacopulos, JD, Kimberly Brewer DVM, MSc, Jacob Machin, MS and Thomas Tobin, MRCVS, PhD, DABT.”More Challenges; Complicated obstacles await HISA medication regulations due to start January 1 The Horsemen's Journal, V69, #3 p 24-34, Fall 2022 -

Clara Fenger, DVM, PhD., Peter J Sacopulos, JD, Kimberly Brewer DVM, MSc, Jacob Machin, MS and Thomas Tobin, MRCVS, PhD, DABT. “Function of the ubiquitous substance bufotenine remains unknown” The Horsemen's Journal, V69, #4 p 34-35, Winter, 2022

Clara Fenger, DVM, PhD, DACVIM, Abelardo Morales-Briceno, DVM Kimberly Brewer, DVM, MSc and Thomas Tobin, PhD, MRCVS, DABT, Navigating the Uncharted Waters of the HISA Medication Rules´ The Horsemen's Journal, V70, #2 p32-36, Summer 2023.

Clara Fenger, DVM, PhD. DACVIM, Kimberly Brewer DVM, MSc, and Thomas Tobin, MRCVS, PhD, DABT: “First looks; Overview of the first positive calls from HISA /HIWU” The Horsemen's Journal, V70, #3 p40-47, Fall, 2023.

Kimberly Brewer DVM, Clara Fenger, DVM, PhD. DACVIM, Andreas Lehner, MS, PhD and Thomas Tobin, MRCVS, PhD, DABT: “Science Based Solution: The Regulatory Problem of Trace-Level Tests of Environmental Substances” The Horsemen's Journal, V71, #1 p34-39, Spring 2024.

Clara Fenger, DVM PhD DACVIM, Kimberly Brewer, DVM MSc, Thomas Tobin, PhD, MRCVS, DABT Study the Studies: Examining HISA Research on Lasix and EIPH in Racehorses: The Horsemen's Journal, V71, #2 p26-30, Summer, 2024.

Kimberly Brewer DVM, Clara Fenger, DVM, PhD. DACVIM, Peter Sacopulos and Thomas Tobin, MRCVS, PhD, DABT: “Burden of Proof; Examination of Specific Cases of Adverse Analytical Findings” The Horsemen's Journal, V71 #3 p30-32, Fall, 2024. [The Horsemen's Journal - Fall 2024 by The Horsemen's Journal - Issuu](https://issuu.com/thehorsemensjournal/docs/fall2024)

All authors contributed to the scientific and literature research the drafting and writing of manuscript and review of the final draft submitted for publication.

<https://nationalhbpa.com/horsemens-journal/>

Journal article public or trade journal