

MATS H.T. TROEDSSON

Maxwell H. Gluck Equine Research Center
Department of Veterinary Science,
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INDEX	Page
<i>Education</i>	1
<i>Board certification</i>	1
<i>Honors and Awards</i>	1
<i>Professional experience</i>	2
<i>Professional service</i>	3
<i>Consulting service</i>	3
<i>Administrative Initiatives and Accomplishments</i>	4
<i>Graduate School appointment</i>	5
<i>Graduate student advisory experience</i>	5
<i>Post doc advisor experience</i>	6
<i>Resident Fellow advisory experience</i>	6
<i>Intern Fellow advisory experience</i>	7
<i>Visiting Scientists</i>	7
<i>Veterinary Student Research Advisor</i>	7
<i>Undergraduate Student Research Advisor</i>	7
<i>Professional Associations</i>	8
<i>External Reviewer</i>	8
<i>Publications</i>	10-36
<i>Peer-reviewed</i>	10
<i>Conference Proceedings</i>	20
<i>Scientific Abstracts</i>	24
<i>Book Chapters</i>	33
<i>Non-Refereed Professional Articles</i>	35
<i>Teaching</i>	36
<i>Presentations</i>	37 -51
<i>Continuing Education</i>	37
<i>Scientific Presentations</i>	40
<i>Invited Presentations</i>	48
<i>Research Grants</i>	53
<i>Research Gifts</i>	56

EDUCATION

PhD: Reproductive Immunology, Comparative Pathology Graduate Division, School of Veterinary Medicine, University of California, Davis. Dissertation: Uterine Defense Mechanisms in the Mare. December 1991.

Advisor: Dr Irwin K.M. Liu.

DVM: The Royal Veterinary College, Stockholm, Sweden, 1975.

BOARD CERTIFICATION

Diplomate, American College of Theriogenologists, 1993.

Diplomate, European College of Animal Reproduction, 2002

HONORS and AWARDS

- Inducted into Sigma Xi Scientific Honor Society, 2024
- Ranked among the top 0.5% of worldwide scholars, and top 0.3% of veterinary scholars (ScholarsGPS), 2024
- Ranked among the top 2% of the world's most cited researchers 2022, 2023, 2024, and lifetime achievements (Elsevier and Stanford University)

- Inducted into Phi Zeta Honor Society of Veterinary Medicine, 2024
- Madison Who's Who Registry of VIP Executives and Professionals edition, 2009
- University of Florida Superior Accomplishment Award, 2006
- DVM Student Award for Teaching, College of Veterinary Medicine, University of Minnesota, 2001
- DVM Student Award for Teaching, College of Veterinary Medicine, University of Minnesota, 2000
- DVM Student Award for Teaching, College of Veterinary Medicine, University of Minnesota, 1999
- Graduate Student Teaching Incentive Award, College of Veterinary Medicine, University of Minnesota, 1999
- College of Veterinary Medicine Collegiate Award, University of Minnesota, 1998
- DVM Student Award for Teaching, College of Veterinary Medicine, University of Minnesota, 1998
- Graduate Student Teaching Award, Theriogenology Graduate Program, University of Minnesota, 1997
- Teaching Incentive Award, College of Veterinary Medicine, University of Minnesota, 1997 and 1998

PROFESSIONAL EXPERIENCE

Professor: June 2008 – present

Department of Veterinary Science, University of Kentucky, Lexington, KY

Founding Director: April 2015-June 2018

Equine Veterinary Medical Center a member of Qatar Foundation, Doha, Qatar

Department Chair: June 2008 – Sept. 2014

Department of Veterinary Science, University of Kentucky, Lexington, KY

Director of Maxwell H. Gluck Equine Research Center: June 2008 – Sept. 2014

University of Kentucky, Lexington, KY

Affiliate (adjunct) Professor in Veterinary Reproduction and Obstetrics: December 2011 – present

Department of Large Animal Sciences, Faculty of Life Sciences, University of Copenhagen, Denmark.

Adjunct Professor: June 2008- 2014

Department of Large Animal Clinical Sciences, College of Veterinary Medicine, University of Florida, Gainesville.

Professor and Service Chief, Reproduction: June 2002- 2008

Department of Large Animal Clinical Sciences, College of Veterinary Medicine, University of Florida, Gainesville.

Adjunct Professor: November 2003- 2009

Department of Animal Sciences, University of Florida, Gainesville.

Associate Professor with tenure: July 1998-June 2002

Department of Clinical and Population Sciences, Section of Theriogenology, College of Veterinary Medicine, University of Minnesota, St Paul

Assistant Professor: January 1994-June 1998

Department of Clinical and Population Sciences, Section of Theriogenology, College of Veterinary Medicine, University of Minnesota, St Paul.

Adjunct Professor: 1998-2002

Department of Animal Sciences, University of Minnesota, St. Paul

Clinical Instructor/Lecturer: July 1991-January 1994

University of California Davis. Clinical staff/Lecturer at the Department of Reproduction, School of Veterinary Medicine.

Doctoral Studies/ Research assistant: Jan 1988-1991

University of California, Davis.

Research Associate: 1986-1987

Department of Obstetrics and Gynecology, Faculty of Veterinary Medicine, Swedish University of Agricultural Sciences, Uppsala, Sweden.

Private Practice, Knivsta, Sweden: Equine Stud Farm practice. 1986-1987

Clinical Faculty: 1984-1985

Ambulatory Services, Department of Reproduction, Faculty of Veterinary Medicine, Swedish University of Agricultural Sciences, Uppsala, Sweden during a sabbatical leave from private practice.

Private Practice, Torsby, Sweden: Mixed companion animal and food animal practice; Equine Stud Farm practice. 1975-1984, 1985-1986

PROFESSIONAL SERVICE

Founding Director (consultant):	Equine Veterinary Medical Center, Qatar Foundation, Doha, Qatar (2015-2018)
Director:	Maxwell H. Gluck Equine Research Center, University of Kentucky (2008-2014)
Service Chief, Reproduction	CVM, University of Florida (2002-2008)
Director:	University of Florida, CVM Equine Research Programs (2002-2008)
Interim Associate Chief of Staff	University of Florida, Large Animal VMTH (2003)
Director:	Minnesota Equine Research Center (1996-2001)
Acting Director of Research	University of Minnesota Equine Center (2001-2002)
Hospital Medical Director:	Large Animal Hospital, University of Minnesota (1998-2002)
Division Head, Theriogenology	Department of Clinical and Population Sciences, University of Minnesota (1994-2002)
Program Advisory Committee Member:	Veterinary Medicine Graduate Faculty, University of Minnesota
Research Committee Member:	CVM, University of Minnesota (1996-98; 2000-02)
	Minnesota Equine Research Center (Chair; 1996-2002)
	CVM, University of Florida (2003-06)
	Equine Veterinary Medical Center, Qatar Foundation (Chair; 2017-18)
Biosecurity Committee Member	CVM University of Florida (2002-08)
	Equine Veterinary Medical Center, Qatar Foundation (2016-18)
Curriculum Committee Member	CVM University of Florida (2007-08)
Faculty Council Member:	CVM, University of Minnesota (1997-2000)
University Senate	University of Minnesota (1998-99)
Certifying Examination Committee:	American College of Theriogenologists (1997-2003); Chair 2001-02.
	European College of Animal Reproduction (2002-07).
Exam Appeals Committee	European College of Animal Reproduction (Chair 2014-)
Research Coordinator Group Member	American Association of Equine Practitioners (2008-15)
Member of local organizing committee	ISER in Lexington, KY (2010) and in Doha Qatar (2018 withdrawn)
Member of organizing committee	International Workshop on Equine Endometritis, Doha, Qatar (2016)
	Equine Reproduction and Neonatology Conference, Doha, Qatar, (2018)
Member of the Working group on WNV	Ministry of Municipality and Environment, Doha, Qatar (2016)
Member of Qatar Foundation Steering Committee	Qatar Foundation, Doha, Qatar (2016-18)
President, Directors of Corporation	International Veterinary Information Services, Inc. IVIS (2019-present)
Editorial Board Member	Animals (2020-2024)
Associate Editor	Frontier in Veterinary Medicine (2021-present)
Member of Health Advisory Council	Morris Animal Foundation (2023-present)

CONSULTING SERVICES:

Consultant on Veterinary Medicine and Research Services: 2014-18
Qatar Foundation

Consultant on Equine Research: May 2002-2016.
MOFA-Global, Verona, WI. 2014-2016.
Minitube of America, Verona, WI. 2002-2014

Consultant on Veterinary Research and Development: 2019 - 2022
Ocean M AB (Hans Gude Gudesen), Norway/ Switzerland

Program Advisory Committee Board Member: August 2019 – present.
Kentucky Horseshoeing School, Richmond, KY

ADMINISTRATIVE INITIATIVES AND ACCOMPLISHMENTS

Chair and Director of the Department of Veterinary Science and the Maxwell H. Gluck Equine Research Center, University of Kentucky (2008-14)

- Successfully guided the Department and Equine Research Center through the global recession, while improving academic productivity
 - The number of peer-reviewed publications more than doubled, and extramural grants that were awarded to the Department quadrupled during the period 2008-14
 - Critical programs were strengthened through strategic hiring and construction/renovation/upgrade of animal facilities.
- Operational improvements
 - Restructured the UK Animal Genetic Testing and Research Laboratory to improve alignment with the mission of the department, efficiency, and financial accountability.
 - Established a health and wellness program for the department research animal herd.
 - Brought the department in full compliance with federal grant regulations.
- Mutually beneficial partnerships with academic institutions and industry
 - Zoetis graduate student recurrent scholarship for clinically oriented DVM's seeking a PhD degree.
 - Developed of a dual PhD program with the University of Copenhagen, School of Veterinary Medicine
 - Formal collaboration with Lincoln Memorial University, College of Veterinary and Comparative Medicine on student training in research and diagnostic medicine. The value of the contract for the Department exceeds \$1M annually.
- Education and outreach
 - The Department's graduate program experienced the highest number on record of veterinarians seeking a PhD degree – translating to a record number of graduate students from the Gluck Equine Research Center obtaining faculty positions at Veterinary Colleges in North America and Europe. Several of these graduate students now hold academic leadership positions nationally and internationally.
 - Development of four new undergraduate and graduate courses in the Department of Veterinary Science
 - The Annual Farm Manager Short Course was re-started after a decade of being idle.
 - The electronic publication *Equine Bluegrass Digest* was developed in collaboration with the UK Equine Program and *The Horse*
- Development
 - Equine industry funds were raised for a PhD scholarship in Equine Infectious Diseases
 - Funds were raised for construction of the Dr. Walter W. Zent Equine Reproduction Research Laboratory
 - Participated in the design and oversaw the construction of stallion and mare research facilities at the University of Kentucky research farm.
 - Oversaw the reconstruction of an industry funded BSL-2 level animal facility at the University of Kentucky research farm.

Founding Director of QF-Equine Veterinary Medical Center at Al Shaqab (2015-18)

- Developed a state-of-the-art equine hospital, diagnostic laboratory, and research center.
 - Reviewed Veterinary legislation in the State of Qatar and provided recommendations to align with international regulations.
 - Outlined a vision and developed a road map for the foundation of an Equine Veterinary Center of Excellence in the Middle East
 - Initiated and contributed to the design, planning and execution of construction of EVMC, and in charge of the procurement of all medical and laboratory equipment.
 - Recruited an international team of Board Certified veterinarians in surgery, internal medicine, reproduction and pathology, as well as an internationally recognized orthopedic podiatrist, researchers and support staff.
 - Developed a Veterinary Orthopedic Podiatry Center and an educational Farrier Academy

- Formed partnership and research collaborations between EVMC and academic institutions within Qatar Foundation, Qatar Anti-doping Laboratory, Oxford University in Great Britain, and University of Bern in Switzerland.
- Developed a veterinary awareness program to foster a better understanding and appreciation for the veterinary profession in Qatar – as well as recruiting young Qatari citizens to pursue veterinary education.

GRADUATE SCHOOL APPOINTMENT

2008-	Full member, Veterinary Science, University of Kentucky
2002-2010	Full member, Veterinary Medicine, University of Florida
2003-2008	Full member, Animal Sciences, University of Florida
2002-2010	Full member, Animal Molecular and Cellular Biology, University of Florida
1998-2002	Full member, Animal Sciences, University of Minnesota
1997-2004	Full member, Veterinary Medicine Graduate Faculty, University of Minnesota
1994-1997	Associate member, Theriogenology Graduate Faculty, University of Minnesota

GRADUATE STUDENT ADVISOR

<u>Advisor:</u>	<u>Degree, year</u>	<u>Employment</u>
Scott Madill	PhD	<i>Professor, College of Veterinary Medicine, University of Minnesota</i>
Mohammad Ababneh	PhD, 1999	<i>Professor at University of Jordan</i>
Kevin Rozeboom	MS, 1997; PhD, 1999	<i>Assistant Professor, North Carolina State University; Private business owner</i>
Abdorrahman S. Alghamdi	MS, 1998; PhD, 2004	<i>Associate Professor at University of Minnesota, Crookston</i>
Justin Hayna	PhD	<i>Assistant Professor at Purdue University, College of Veterinary Medicine</i>
Andria Desvougues	PhD, 2013	<i>Scientific Director of Flow Cytometry unit University of Florida Core Biomed. Lab; Senior Scientist, Parse Biosciences</i>
Lynda Miller	PhD, 2010	<i>Professor at CVM, Lincoln Memorial University</i>
Claudia Klein	PhD, 2011	<i>Professor, University of Hanover, Head of the Friedrich Loeffler Institute of Farm Animal Genetics, German and</i>
Elisabeth Woodward	PhD, 2012	<i>Associate Professor, School of Vet. Med. University of Pennsylvania</i>
Mette Christoffersen (University of Copenhagen)	Co-advisor PhD, 2012	<i>Associate Professor at University of Copenhagen School of Veterinary Medicine</i>
Carleigh Fedorka	PhD, 2017	<i>Assistant Professor, Colorado State Univ.</i>
Natacha Muderspach (University of Copenhagen)	Co-advisor PhD, 2025	<i>Clinical Instructor, at University of Copenhagen School of Veterinary Medicine</i>
Gonzalo Rocha-Chavez	MS, 1999	<i>Academia in Mexico</i>
Rodrigo Velasco	MS,	<i>transfer to UCD 2004</i>
Bruce Christensen	MS, 2007	<i>Assistant Professor at University of Iowa; University of California, Davis, School of Veterinary Medicine; Specialized private practice</i>
Meghan Connor	MS, 2009	<i>Veterinary private practice</i>
Gabriella Toro	Co-advisor MS, 2015	<i>Academia and private practice in Ecuador</i>
Juliana Campos	Co-advisor MS, 2012	<i>Freelance in Miami, FL</i>

Graduate committee:

Mamadou n'Diaye	PhD, 1996
Mustafa Q. Husain	PhD, 1997
Thomas M. Bailey	PhD, 2000
Nasrldin M. Ibrahim	PhD, 1998
Rahil Tayyib	PhD, 1998
Castro Guto	PhD, 2007
Tameka Phillips	PhD, 2010
Dean Jousan	PhD, 2006
Rebekah Cosden	PhD, 2011
Igor Fredrico Canisso	PhD, 2014
Anthony Claes	PhD, 2014
Juan Castillo Herera	PhD – University of Calgary (DNF)
Mitch Eaton	MS, 2001; College of Ecology
Segundo Gonzales	MS, 1996
Jennifer Graczyk	MS 2002-4 (DNF)
Sydney Hughes	MS, 2012
Kat Cerny	MS, 2012
Lauren Keith	MS, 2012
Julianne Kalmar	MS, 2013
Gabriel Davolli	MS, 2014
Noelle Duff	MS – University College Dublin
Jeffery Mitchell	MS – 2021-22 (DNF)
Jaden Thompson	MS - projected 2025

External examiner:

Edwena D. Miles	PhD, 2012, University of Kentucky
Christina D.M. Marth	PhD, 2016, University of Melbourne, Australia
John Hast	PhD, 2019, University of Kentucky
Roisin Griffin	PhD, 2021, University of Newcastle, Australia
Jasmin Walter	PhD, 2022, University of Zurich, Switzerland

POST DOC ADVISOR

<u>Name</u>	<u>Year</u>	<u>Employment</u>
Choung-soep Lee	1997- 1998	<i>Clinical practice in South Korea</i>
Ahmad Ijaz	2001 - 2002	
Claudia Klein	2011 - 2012	<i>Head of the Freidrich Loeffler Institute of Farm Animal Breeding and Gentics, Professor, University of Hanover</i>
Ammar Ali	2011 – 2012	<i>Assistant Clinical Professor at University of California, San Diego</i>
Elizabeth Woodward	2012 – 2014	<i>Assistant Professor, School of Veterinary Medicine University of Pennsylvania</i>
Stephanie Preston	2013 – 2014	<i>Freelance, Animal Welfare</i>
Carleigh Fedorka	2020 – 2022	<i>Assistant Professor, Colorado State University</i>

RESIDENT FELLOW ADVISOR

Nicholas Carney	University of California Davis
Jeanne Bowers	University of California Davis
Hugh Gibbs	University of California Davis
Catherine Renaudin	University of California Davis (Board Certified ECAR)
Gary Nie	University of Minnesota (Board Certified ACT)
Jane Barber	University of Minnesota (Board Certified ACT)
Scott Madill	University of Minnesota (Board Certified ACT)
Nancy Vetscher	University of Minnesota (Board Certified ACT)

Justin Hayna	University of Minnesota (Board Certified ACT)
Mohammad Ababneh	University of Minnesota (Board Certified ACT)
Rodrigo Velasco	University of Florida
Tracy Murchie	University of Florida (Board Certified ACT)
Bruce Christensen	University of Florida (Board Certified ACT)
Adam Eichelberger	University of Florida (Board Certified ACT)
Claudia Klein	University of Florida (Board Certified ACT and ECAR)
Scott Bailey	University of Florida (Board Certified ACT)
Alana King	University of Florida (Board Certified ACT)

INTERN FELLOW ADVISOR

University of Kentucky

Dr. Gabriel Davolli	Universidade Federal do Rio Grande do Sul-UFRGS, Brazil, 2010
Pauline Peugeot	France, 2010
Pauline Bignon	France, 2011
Bethany Houghton	Canada, 2013

Al Shaqab, Qatar Foundation

Dr. Muneera Al-Fadala	Qatar, 2018
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VISITING SCIENTISTS

Dr. Mehmet Osman	Selcuk University, Turkey, 2007
Dr. Morten Rønn Petersen	University of Copenhagen, 2010
Dr. Mohammad Ababneh	University of Jordan (Fulbright Fellow), 2010-11
Dr. Jasmine Walter	University of Giessen, Germany, 2010
Dr. R.R. Araujo	University of Sao Paulo, Brazil, 2010
Dr. Mette Christoffersen	University of Copenhagen, 2010 and 2011
Dr. Jane Morrell	Swedish University of Agriculture, Uppsala, Sweden, 2011
Dr. Stephanie Preston	University of Florida, 2012-2013
Dr. Abdo Alghamdi	University of Minnesota, Crookston, 2013
Dr. Kazim Guvenc	University of Istanbul, Turkey, 2014
Dr. Justin McNaughton	University of Florida, 2013
Dr. Lisa Glenton	University of Melbourne, Australia, 2014
Dr. Natacha Mudenspach	University of Copenhagen, 2022

VETERINARY STUDENT RESEARCH ADVISOR

Michelle Ing	University of California, School of Veterinary Medicine
Brian Dahms	University of Minnesota, College of Veterinary Medicine
T. Ohman	University of Florida, College of Veterinary Medicine
Louise Brandis	University of Copenhagen, School of Veterinary Medicine
Camilla Baagoe	University of Copenhagen, School of Veterinary Medicine
Olivia Walker	Lincoln Memorial University, College of Veterinary Medicine
Elizabeth Humphrey	Lincoln Memorial University, College of Veterinary Medicine
Lauren Troutt	Lincoln Memorial University, College of Veterinary Medicine
Mary Grace May	Lincoln Memorial University, College of Veterinary Medicine
Kelly Weigle	Lincoln Memorial University, College of Veterinary Medicine
Madison Dedman	Lincoln Memorial University, College of Veterinary Medicine
Anecia Whitehead	Lincoln Memorial University, College of Veterinary Medicine
Samantha Norton	Lincoln Memorial University, College of Veterinary Medicine
Summer Lange	Lincoln Memorial University, College of Veterinary Medicine
Gianna Palmieri	Lincoln Memorial University, College of Veterinary Medicine
Willow Werlohof	Lincoln Memorial University, College of Veterinary Medicine

UNDERGRADUATE STUDENT RESEARCH ADVISOR

Brenda Steigler	University of Minnesota, Dept. Animal Science
Rebekah Franklin	University of Minnesota, Dept. Animal Science

Terry Laschkewitsch	University of Minnesota, Dept. Animal Science
Amy Ohlgren	University of Minnesota, Dept. Animal Science
Jennifer Mattisen	University of Minnesota, Dept. Animal Science
Amanda Schultze	University of Minnesota, Dept. Animal Science
Milan Milovancev	University of Minnesota, Dept. Animal Science
Lisa Scotting	University of Minnesota, Dept. Animal Science
Charlotte Dow	University of Florida, Dept. Animal Science (McNair Scholar)
Brooke Wells	University of Florida, Dept. Animal Science (McNair Scholar)
Andy Howard	Eastern Kentucky University
Rebecca Hutchinson	University of Kentucky (ESMA Outstanding Intern Award 2023)

PROFESSIONAL ASSOCIATIONS

American Veterinary Medical Association
Society for Theriogenology
American College of Theriogenologists
European College of Animal Reproduction
International Society for Equine Reproduction
American Association of Equine Practitioners
Swedish Veterinary Association
Swedish Society for Veterinarians at Scientific Institutions
American Association for Advancement of Science (AAAS)
Gamma Sigma Delta
Phi Zeta (Honor Society of Veterinary Medicine)
Sigma Xi (Scientific Research Honor Society)

EXTERNAL REVIEWER (Ad Hoc)

- a. Research grants:
- Austrian Science Fund (FWF)
 - Equine Research Laboratory, University of California
 - Grayson Jockey Club foundation
 - Horserace Betting Levy board, United Kingdom.
 - Minnesota Equine Research Center
 - National Science Center of Poland
 - Natural Sciences and Engineering Research Council of Canada (NSERC)
 - OeNB Anniversary Fund - an Institution of the Austrian Central Bank
 - Swedish Racing Commission
 - Swiss National Science Foundation
 - The Volkswagen Research Foundation, Germany
 - The Wellcome Trust, United Kingdom
 - University of Veterinary Medicine, Vienna, Austria
 - Morris Animal Foundation
 - USDA
- b. Scientific Journals:
- Acta Veterinaria Scandinavica
 - Agriculture
 - American Journal of Veterinary Research
 - American Journal of Reproductive Immunology
 - American Journal of Obstetrics and Gynecology
 - Animals
 - Animal Biotechnology
 - Animal Reproduction Science
 - Antibiotics
 - Antioxidants
 - Australian Veterinary Journal
 - Biology of Reproduction
 - BMC Veterinary Research
 - Computational and Structural Biotechnology Journal

- Equine Veterinary Journal
- Equine Veterinary Education
- Frontiers in Veterinary Medicine
- Frontiers in Cell and Developmental Biology/ Cell Growth and Division
- Genes
- International Journal of Molecular Biology
- International Journal of Biological Macromolecules
- Journal of Andrology
- Journal of Animal Science
- Journal of American Veterinary Medical Association
- Journal of Equine Veterinary Science
- Journal of Cellular Physiology
- Journal of Clinical Laboratory Analysis
- Journal of Molecular Science
- Journal of Reproduction and Fertility
- Journal of Veterinary Internal Medicine
- Journal of Veterinary Sciences
- Molecular Biology Reports
- Molecular Reproduction and Development
- New Zealand Veterinary Journal
- PLOSOne
- Qeios
- Proceedings American Association of Equine Practitioners
- Reproduction
- Reproduction in Domestic Animals
- Reproduction, Fertility and Development
- Reproductive Toxicology
- Theriogenology
- The Anatomical Record
- The Biological Bulletin
- The Veterinary Journal
- Therapeutic and Clinical Risk Management
- Veterinary Research
- c. Scientific meetings:
 - International Symposium on Equine Reproduction
 - Society for Theriogenology
 - International Congress on Animal Reproduction
 - American Association of Equine Practitioners
 - International Equine Embryo Society
 - International Stallion Reproduction Symposium
- d. Other:
 - University of Utrecht College of Veterinary Medicine - External Research Evaluation Committee (2005)
 - University of Pretoria – External Research Evaluation (2017)
 - University of Kentucky, Nationally Competitive Awards ad hoc Committee (2023)
- e. Promotions
 - Dietrich Volkmann – INS/Cornell University (2003)
 - John Verstegen – INS/University of Florida (2005)
 - Charles Love – Texas A&M University (2010)
 - Reed Holyoak – Oklahoma State University (2011)
 - Margo Macpherson – University of Florida (2012)
 - Sara Lyle – Louisiana State University (2014)
 - Abdorrahman Alghamdi - University of Minnesota, Crookston (2015)
 - Mouhamadou Diaw – University of Montreal (2019)
 - Lynda Miller – Lincoln Memorial University (2019)
 - Elizabeth Woodward - University of Pennsylvania (2020)

PUBLICATIONS

Peer-reviewed

1. **Troedsson, M.H.T.** and Broström, H. (1986) Sommareksem på Islandshäst. Svensk Veterinärtidning, April.
2. Broström, H., **Troedsson, M.H.T.** and Larsson, A. (1987) Allergic dermatitis (Sweet Itch) in Icelandic horses in Sweden: An epidemiological study. *Equine Vet. J.* 19(3):229-236.
3. Lasley, B.L., **Troedsson, M.H.T.**, Bravo, W. and Haggerty, M.A. (1989) Estrogen conjugate measurements to monitor ovarian activity. *Theriogenology* 31(1):127-139.
4. **Troedsson, M.H.T.**, Concha, C., Einarsson, S. and Holmberg, O. (1990) A preliminary study of uterine derived polymorphonuclear cell function in mares with chronic uterine infections. *Acta Vet. Scand.* 31(4):187-192.
5. McCue, P.M., **Troedsson, M.H.T.**, Stabenfeldt, G.H., Liu, I.K.M., Hughes, J.P. and Lasley, B.L. (1991) Endocrine response of anestrus mares to administration of native GnRH or GnRH agonist. *J. Reprod. Fertil. Suppl.* 44:227-233.
6. **Troedsson, M.H.T.** and Liu, I.K.M. (1991) Uterine clearance of non-antigenic markers (51Cr) in response to a bacterial challenge in mares potentially susceptible and resistant to chronic uterine infections. *J. Reprod. Fertil. Suppl.* 44:283-288.
7. **Troedsson, M.H.T.** and Liu, I.K.M. (1992) Measurement of total volume and protein concentration of intrauterine secretion after intrauterine inoculation of bacteria in mares that were either resistant or susceptible to chronic uterine infection. *Am. J. Vet. Res.* 53:1641-1644.
8. **Troedsson, M.H.T.**, Scott, M.A. and Liu, I.K.M. (1993) Pathogenesis and treatment of chronic uterine infections. *Proceedings of the American Association of Equine Practitioners* 39:595-600.
9. **Troedsson, M.H.T.**, deMoraes, M.G. and Liu, I.K.M. (1993) Correlation between histologic endometrial lesions in mares and clinical response to intrauterine exposure with *Streptococcus zooepidemicus*. *Am. J. Vet. Res.* 54:570-572.
10. **Troedsson, M.H.T.**, Liu, I.K.M. and Thurmond, M. (1993) Immunoglobulin (IgG & IgA) and complement (C3) concentrations in uterine secretion following an intrauterine challenge of *Streptococcus zooepidemicus* in mares susceptible and resistant to chronic uterine infection. *Biol. Reprod.* 49:502-506.
11. **Troedsson, M.H.T.**, Liu, I.K.M. and Thurmond, M. (1993) Function of uterine- and blood derived PMNs in mares susceptible and resistant to chronic uterine infection (CUI): phagocytosis and chemotaxis. *Biol. Reprod.* 49:507-514.
12. **Troedsson, M.H.T.**, Liu, I.K.M., Ing, M., Pascoe, J.R. and Thurmond, M. (1993) Multiple site electromyography recordings of uterine activity following an intrauterine bacterial challenge in mares susceptible and resistant to chronic uterine infection. *J. Reprod. Fertil.* 99:307-313.
13. **Troedsson, M.H.T.**, Wiström, A.O.G., Liu, I.K.M., Ing, M., Pascoe, J.R. and Thurmond, M. (1993) Registration of myometrial activity, using multiple site electromyography in the cycling mare. *J. Reprod. Fertil.* 99:299-306.
14. **Troedsson, M.H.T.** (1994) Uterine defense mechanisms in the mare. *Arch. STD/HIV Res.* 8:259-269.
15. **Troedsson, M.H.T.**, Scott, M. and Liu, I.K.M. (1995) Comparative treatment of mares susceptible to chronic uterine infection. *Am. J. Vet. Res.* 56(4):468-472.
16. **Troedsson, M.H.T.**, Crabo, B.G., Ibrahim, N.M., Scott, M. and Ing, M. (1995) Mating-induced endometritis (MIE): Mechanisms, clinical importance and consequences. *Proceedings of the American Association of Equine Practitioners* 41:11-12.
17. Samper, J.C., Hamilton, D.W., Pryor, J.L., Loseth, K.J., **Troedsson, M.H.T.** and Crabo, B.G. (1995) Mechanisms of Sephadex trapping of capacitated stallion spermatozoa. In: Sharp, D.C. and Bazer, F.W. (ed.) *Biology of Reproduction Monograph Series 1. Equine Reproduction VI*, pp. 227-235.
- 18.* Gibbs, H.M., III and **Troedsson, M.H.T.** (1995) The effect of acepromazine, detomidine and xylazine on myometrial electrical activity in the mare. In: Sharp, D.C. and Bazer, F.W. (ed.) *Biology of Reproduction Monograph Series 1. Equine Reproduction VI*, pp. 299-304.

19. **Troedsson, M.H.T.**, Liu, I.K.M., Ing, M. and Pascoe, J. (1995) Smooth muscle electrical activity in the oviduct and the effect of oxytocin, PGF_{2a} and PGE₂ on the myometrium and oviduct of the cycling mare. In: Sharp, D.C. and Bazer, F.W. (ed.) *Biology of Reproduction Monograph Series 1. Equine Reproduction VI*, pp. 439-452.
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Book chapters

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1. **Troedsson, M.H.T.** (1996) Chapter 12: Alterations in sexual function. Consulting editor. In: Large Animal Internal Medicine. ED. Smith, B.P. Mosby Co, St Louis, MO.
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15. **Troedsson, M.H.T.** (2002) Placentitis. In: Current Therapy in Equine Medicine 5. ED. Robinson N.E. Saunders Co, Philadelphia, PA.
16. **Troedsson, M.H.T.** Interaction between the uterus, semen, and the fetus; Equine research during two decades. In: Equine Research in the last 25 years. ATG, Sweden.
17. **Troedsson, M.H.T.** and Madill, S. 2004 Pathophysiology of the reproductive system. In: Veterinary Pathophysiology. Eds. R.H. Dunlop & C.-H. Malbert. Blackwell Publishing, Ames, IA, pp. 213-258.
18. Ricketts, S.W. and **Troedsson, M.H.T.** 2006. Barren Mares: Fertility expectations and management for optimal fertility. In: Current Therapy in Equine Reproduction. Eds. A.O. McKinnon, J. Samper, and J. Pycok. Saunders Co, Philadelphia, PA, pp. 53-69.
19. **Troedsson, M.H.T.** 2006. Breeding-induced endometritis. In: Veterinary Clinics of North America, Ed. E. Carnevale, pp. 705-712.
20. Macpherson, M.L., Hayna, J., **Troedsson, M.H.T.** 2006. Premature lactation in mares. In: Current Therapy in Equine Reproduction, Eds. Samper J., Pycok, J., McKinnon, A. Saunders Co, Philadelphia, PA, pp. 435-440.
21. **Troedsson, M.H.T.** (2008) Dystocia. In: Large Animal Internal Medicine 4th ed. ED. Smith, B.F. Mosby Co, St Louis, MO. 210-212.
22. **Troedsson, M.H.T.** (2008) Retained fetal membranes. In: Large Animal Internal Medicine 4th ed. ED. Smith, B.F. Mosby Co, St Louis, MO, pp. 212-213.
23. B.C. Christensen, **Mats H.T. Troedsson**, and M. Drost. (2008) Female Reproductive Disorders. In: Large Animal Internal Medicine 4th ed. ED. Smith, B.F. Mosby Co, St Louis, MO, pp. 1419-1469.
24. **Troedsson, M.H.T.** and Peter J. Timoney. (2011) Contagious Equine Metritis. In: Clinical Veterinary Advisor. Ed. D. Wilson. pp. 124-126.
25. **Troedsson, M.H.T.** (2011) Endometritis. In: Equine Reproduction. Ed. A. McKinnon, EL Squires, W. Vaala, D. Varner. Chapter 271, pp. 2620-2642.
26. **Troedsson, M.H.T.**, Macpherson, M.L. (2011) Placentitis. In: Equine Reproduction. Ed. A. McKinnon, EL Squires, W. Vaala, D. Varner. Chapter 242, pp. 2359-2367.
27. **Troedsson, M.H.T.** (2014) Pregnancy loss. In: Large Animal Internal Medicine 5th ed. ED. Smith, B.F. Mosby Co, St Louis, MO, pp. 184-187.

28. **Troedsson, M.H.T.** (2014) Dystocia. In: Large Animal Internal Medicine 5th ed. ED. Smith, B.F. Mosby Co, St Louis, MO. 190-192.
29. **Troedsson, M.H.T.** (2014) Retained fetal membranes. In: Large Animal Internal Medicine 5th ed. ED. Smith, B.F. Mosby Co, St Louis, MO, pp. 192-194.
30. B.C Christensen, B.R. McNabb, **M.H.T. Troedsson**, and E.M. Woodward. (2014) Female Reproductive Disorders. In: Large Animal Internal Medicine 5th ed. ED. Smith, B.F. Mosby Co, St Louis, MO, pp. 1309-1354.
31. **Troedsson, M.H.T.** (2018) Pregnancy loss. In: Large Animal Internal Medicine 5th ed. ED. Smith, B.F. Mosby Co, St Louis, MO, pp. 198-200.
32. **Troedsson, M.H.T.** (2018) Dystocia. In: Large Animal Internal Medicine 5th ed. ED. Smith, B.F. Mosby Co, St Louis, MO, pp. 205-207.
33. **Troedsson, M.H.T.** (2018) Retained fetal membranes. In: Large Animal Internal Medicine 5th ed. ED. Smith, B.F. Mosby Co, St Louis, MO, pp. 207-209.
34. B.C Christensen, B.R. McNabb, **M.H.T. Troedsson**, and E.M. Woodward. (2018) Female Reproductive Disorders. In: Large Animal Internal Medicine 5th ed. ED. Smith, B.F. Mosby Co, St Louis, MO, pp. 1456-1505.

Non-Refereed Professional and Scientific Articles

1. **Troedsson, M.H.T.** (1992) Chronic uterine inflammation (CUI) in the mare: the role of uterine defense mechanisms. Modern Horse Breeding 9(9)1.
2. **Troedsson, M.H.T.** Breeding Mares Early in the Season. Minnesota Thoroughbred Association Newsletter, 1994.
3. **Troedsson, M.H.T.** and Liu, I.K.M. Management of mares with chronic uterine inflammation. ERL update 1994 published by layman's magazines including The Thoroughbred of California CA, Aug. 1994; Arabian Horse Association of California CA, Jan. 1995; The Corinthian Horse Sport ONT, Jan. 1995; The Quarter Horse Journal TX, Jan. 1995; The Southern Horseman MS, Jan. 1995; Gallop'n/Gazette MI, Jan. 1995; Speedhorse OK, Dec. 1994; Just Horses ID, Feb. 1995; The Backstretch, April 1995, Large Animal Veterinarian, Nov. 1995.
4. **Troedsson, M.H.T.** and Liu I.K.M. (1995) Managing mares with chronic uterine inflammation. Eq. Vet. Sci. (15)3:112-114.
5. **Troedsson, M.H.T.** (1996) Causes and treatment strategies of mares with persistent uterine inflammation. Minnesota Thoroughbred Association Newsletter, 1996.
6. **Troedsson, M.H.T.**, and Liu, I.K.M. (1996) Management and treatment strategies of mares with persistent uterine inflammation. Minnesota Thoroughbred Association Newsletter.
7. **Troedsson, M.H.T.** (1997) Early diagnosis and treatment of placentitis may prevent late term abortions. Minnesota Equine Research Center Newsletter (1):2.
8. **Troedsson, M.H.T.** (1997) Getting the older mare in foal. World Equine Veterinary Review (2):14-15.
9. **Troedsson, M.H.T.**, and Fahning, M.L. (1997) The latest in equine embryo transfer. Arabian Horse Times. September, pp. 768-771.
10. Wheaton, J.E., **Troedsson, M.H.T.**, Bailey, M.T., and Christman, S.A. (1997) Inhibin and reproduction in the mare. Minnesota Equine Research Center Newsletter 2.
11. **Troedsson, M.H.T.** (1997) Minnesota Equine Research Center. Horse'n Around 8:1:6.
12. **Troedsson, M.H.T.** (1998) Some practical aspects on breeding mares. Horse'n Around 8:3:6-7.
13. Madill, S, and **Troedsson, M.H.T.** (1998) The importance of stallion contact for the reproductive health of broodmares. Minnesota Equine Research center Newsletter 2:2-3.
14. **Troedsson, M.H.T.**, Zent, W.W., and Xue, J-L. (1998) Post-breeding uterine fluid accumulation in a normal population of thoroughbred mares: A field study. Minnesota Equine Research center Newsletter 2:3.
15. **Troedsson, M.H.T.**, and Zent, W.W. (1998) Equine placentitis. World Equine Veterinary Review 3(4):16-19.
16. **Troedsson, M.H.T.** (1999) How to manage mares with placentitis. Horse'n Around 9(3):6.
17. **Troedsson, M.H.T.** (1999) Some practical considerations of breeding mares. Horse'n Around 9(3):8-9.
18. **Troedsson, M.H.T.** (2000). Management of mares with placentitis. American Hanoverian Magazine.
19. **Troedsson, M.H.T.** (2001) From the Director. Minnesota Equine Research Center Newsletter 1(1):1.
20. **Troedsson, M.H.T.** (2001) The role of seminal plasma in the regulation of breeding-induced endometritis.

- 1:5.
21. **Troedsson, M.H.T.** (2002) Preparing mares for foaling and subsequent breeding. Minnesota Thoroughbred Association Newsletter.
22. **Troedsson, M.H.T.**, Duoos, L.A., Alghamdi, A.S., Miller, L., and Roberts, K.P. (2002) Artificial insemination (AI) with fresh, cooled and frozen/thawed semen: Does lubrication of the artificial vagina affect semen quality? University of Minnesota Equine Center Newsletter.
22. Alghamdi, A.S., and **Troedsson, M.H.T.** (2002) The importance of nitric oxide in persistent breeding induced endometritis. University of Minnesota Equine Center Newsletter.
23. **Troedsson, M.H.T.** (2003) Manipulation of the estrous cycle. Proceedings: Ocala Equine Conference.
24. **Troedsson, M.H.T.** (2003) Present and future assisted reproductive technologies. Proceedings: Ocala Equine Conference.
25. **Troedsson, M.H.T.** (2004) Breeding Management of the Mare. Breeding Management Short Course, University of Florida.
26. **Troedsson, M.H.T.** (2004) Common Fertility Problems. Breeding Management Short Course, University of Florida.
27. **Troedsson, M.H.T.** (2005) The role of specific seminal plasma components in breeding-induced endometritis. SBS annual meeting.
28. **Troedsson, M.H.T.** (2006) Management of High-Risk pregnancies. KWPN of North America Newsletter.
29. **Troedsson, M.H.T.** (2006) Management of Problem Breeders. KWPN of North America Newsletter.
30. **Troedsson M.H.T.** and Macpherson, M.L. (2007) Diagnostico y tratamiento de la placentitis equine. Revision Medica Equina 1:23-32.
31. **Troedsson, M.H.T.**, Macpherson, M.L. (2007) Breeding management of mares with sick foals. Proc. Referring Veterinarian Appreciation Day at the University of Florida.
32. **Troedsson, M.H.T.** (2009) Reproductive technologies for the stallion. Proc. Kentucky Breeders Seminar, pp. 7-10.
33. **Troedsson, M.H.T.** (2009) Health Article - Sexually transmitted diseases in the horse: What do we need to know? 2010 Egyptian Stallion Guide, pp. 2-3.
34. **Troedsson, M.H.T.** (2009) Cryopreservation of equine embryos with the Equine Embryo Direct Transfer (dt) Vitrification Kit. Sperm notes.
35. Macpherson, M.L., King, A., **Troedsson, M.H.T.** (2011) Assisted Reproductive Techniques for the performance mare. FAEP - The Practitioner. 6:12-16.
36. **Troedsson, M.H.T.**, Simmet, L.O., Wu, Weidong. (2012) Assisted Reproduction Technology as a Tool to Improve the Quality of Horses for China Equestrian Industry. Forum Article Collection book for CEF International Equine Festival.
37. **Troedsson, M.H.T.** (2013) Mating-induced endometritis: Physiology or Pathology? Invited editorial: Journal of Veterinary Medicine. <http://dx.doi.org/10.1016/j.tvjl.2013.10.012>
38. Ball, B.A., I.F. Canisso, and M.H.T. **Troedsson.** 2014. Progress towards new biomarkers for the diagnosis of bacterial placentitis in mares. Equine Disease Quarterly 23(1):4-5.
39. **Troedsson, M.H.T.** (2019) Changing trends in Equine Reproduction. Equine Disease Quarterly 28(3);3-4.
40. **Troedsson, M. H.T.** (2020). Equine Placentitis, *Journal of American Saddlebred*, 38(1), 28-29.

TEACHING

University of California, Davis (1991-1993)

- Reproductive Physiology (2nd year DVM curriculum; lectures)
- Equine Reproduction (3rd year DVM curriculum; lectures and labs)
- Equine Reproduction Clinical Training (4th year DVM curriculum)

University of Minnesota (1993-2002)

- CVM 6480 Obstetrics and Reproductive Diagnostics (2nd year DVM curriculum; lectures)
- CVM 6728 Reproductive Diseases of the horse (3rd year DVM curriculum; Course coordinator; lectures and labs)
- CVM 6727 Equine Palpation (3rd year DVM curriculum; labs)
- CVM Equine Theriogenology (4th year DVM curriculum; Course coordinator; clinics and labs)

- CVM 6748 Advanced Equine Theriogenology (4th year DVM curriculum; Course coordinator; advanced clinical training in assisted reproduction)
- AnSci 5009 Science in Agriculture (Undergraduate research training)
- VMED 8882 Advanced Endocrinology in reproduction (Graduate course in reproduction)

University of Florida (2002-2011)

- VEM 5111 Animal System I Veterinary Reproduction (1st year DVM curriculum; Course coordinator; lectures and labs)
- VEM 5278 Theriogenology (2nd year DVM curriculum; lectures and labs)
- VEM 5785 Equine Theriogenology (3rd and 4th year DVM curriculum; Course coordinator; clinical training)
- VEM5274 Equine Reproduction (4th year DVM curriculum; lectures and labs)
- VEM 5886 Stud Farm Clerkship (4th year DVM curriculum; Course coordinator; clinical training)
- Research in Veterinary Medicine (4th year DVM curriculum; research training)
- Andrology (Graduate interdisciplinary course in animal andrology; lectures and labs)

University of Kentucky (2012-)

- GEN 300-010-201310 Equine Reproduction (Lectures)
- VS 500 Equine Reproduction (Lectures) – Course Coordinator 2018
- VS 351 Equine disease (Lectures)

PRESENTATIONS

Continuing Education

- 1993 **Troedsson, M.H.T.**, Liu, I.K.M. and Scott, M.A. Breakdown of the uterine defense mechanisms in mares susceptible to chronic uterine infections (CUI): Efficacy of different treatment strategies. Symposium on Advances in Clinical Veterinary Medicine, University of California, Davis CA.
- 1993 **Troedsson, M.H.T.** Management of mares susceptible to chronic endometritis. Proceedings 1993 Annual Fall Conference for Veterinarians. University of Minnesota, St Paul.
- 1995 **Troedsson, M.H.T.** An update on endometritis in the mare. Minnesota Equine Veterinary Association, St. Paul, MN.
- 1995 **Troedsson, M.H.T.** Progestin therapy in the mare. Minnesota Equine Veterinary Association, St. Paul, MN.
- 1996 **Troedsson, M.H.T.** Dystocia in the mare. Annual Fall Conference for Veterinarians. University of Minnesota, St Paul.
- 1996 **Troedsson, M.H.T.** Therapy of Endometritis. Annual Fall Conference for Veterinarians. University of Minnesota, St Paul.
- 1996 **Troedsson, M.H.T.** Practical aspects of transported semen. Annual Fall Conference for Veterinarians. University of Minnesota, St Paul.
- 1997 **Troedsson, M.H.T.** Topics on equine reproduction: Breeding management. Northwest Equine Conference. University of Minnesota, Crookston.
- 1997 **Troedsson, M.H.T.** Artificial insemination in the horse. Short course for stud farm managers. Two days lectures and wet labs. University of Minnesota, St. Paul
- 1997 **Troedsson, M.H.T.** Transported cooled and frozen semen. Short course for equine practitioners. 1 day lectures and wet lab. University of Minnesota, St. Paul.
- 1997 **Troedsson, M.H.T.** Ultrasonography in equine reproduction. Short course sponsored by Universal Medical, Inc., NY, University of Minnesota, St. Paul.
- 1998 **Troedsson, M.H.T.** Handling of transported cooled and frozen/thawed semen. Short course for equine practitioners. 1-day lectures and wet lab. University of Minnesota, St. Paul.
- 1998 **Troedsson, M.H.T.** Artificial insemination in the horse. Short course for stud farm managers. Two days lectures and wet labs. University of Minnesota, St. Paul.
- 1998 **Troedsson, M.H.T.** Ultrasonography of the pregnant and non-pregnant reproductive tract. Short course sponsored by Universal Medical, Inc., NY, University of Minnesota, St. Paul.
- 1998 **Troedsson, M.H.T.** Transrectal ultrasonographic evaluation of the equine placenta. Short course sponsored

- by Universal Medical, Inc., NY, University of Minnesota, St. Paul.
- 1998* Vetscher, N., and **Troedsson, M.H.T.** Transrectal ultrasonography of the equine placenta. Annual Fall Conference for Veterinarians. University of Minnesota, St Paul.
- 1999 **Troedsson, M.H.T.** Artificial insemination in the horse. Short course for stud farm managers. Two days lectures and wet labs. University of Minnesota, St. Paul.
- 1999 **Troedsson, M.H.T.** Ultrasonography of the normal and abnormal reproductive tract. Short course sponsored by Universal Medical, Inc., NY, University of Minnesota, St. Paul.
- 1999 **Troedsson, M.H.T.** Transrectal ultrasonographic evaluation of the equine placenta. Short course sponsored by Universal Medical, Inc., NY, University of Minnesota, St. Paul.
- 1999 **Troedsson, M.H.T.** Breeding and foaling: Horse care topics for experienced owners (6 hours lectures). University College, Continuing and Distance Education, University of Minnesota.
- 1999 **Troedsson, M.H.T.** Topics in Equine Reproduction (3 hours lecture), Fargo, North Dakota.
- 1999 **Troedsson, M.H.T.** Equine Embryo Transfer. (1 hour lecture and 3 hour lab) Annual Fall Conference for Veterinarians. University of Minnesota, St Paul, pp. 22-31.
- 2000 **Troedsson, M.H.T.** Artificial insemination in the horse. Short course for stud farm managers. Two days lectures and wet labs. University of Minnesota, St. Paul.
- 2001 **Troedsson, M.H.T.** Artificial insemination in the horse. Short course for stud farm managers. Two days lectures and wet labs. University of Minnesota, St. Paul.
- 2001 **Troedsson, M.H.T.** Cryopreservation of equine semen. Short course for equine pract.. Uof MN, St. Paul.
- 2002 **Troedsson, M.H.T.** Artificial insemination in the horse. Short course for stud farm managers. Two days lectures and wet labs. University of Minnesota, St. Paul.
- 2002 **Troedsson, M.H.T.** Current topics in Equine Reproduction. Wisconsin Equine Veterinary Association, Oconomowoc, WI. 1 day lecture and lab.
- 2003 **Troedsson, M.H.T.** Mare Reproduction. University of Florida, Veterinary Appreciation Day. 1 lecture
- 2003 **Troedsson, M.H.T.** Breeding soundness examination in the mare. Florida Institute and Allied Trade Show, Ocala, FL. 1 hour lecture and 1 hour panel discussion.
- 2003 **Troedsson, M.H.T.** Manipulation of the estrous cycle. Ocala Equine Conference. 1 hour lecture.
- 2003 **Troedsson, M.H.T.** Present and future assisted reproductive technologies. Ocala Equine Conference. 1.5 hours lecture.
- 2004 **Troedsson, M.H.T.** Breeding Management of the Mare. Breeding Management Short Course, University of Florida. 1 hr lecture.
- 2004 **Troedsson, M.H.T.** Common Fertility Problems. Breeding Management Short Course, University of Florida. 1 hr lecture.
- 2004 **Troedsson, M.H.T.** Breeding Management of the Mare. 8 hrs lab in semen handling, AI, and Embryo transfer. Breeding Management Short Course, University of Florida.
- 2005 **Troedsson, M.H.T.** An update on equine placentitis. University of Florida, Veterinary Appreciation Day.
- 2006 **Troedsson, M.H.T.** Clinical importance of endometritis. GVMA Fall Convention, Destin, FL.
- 2006 **Troedsson, M.H.T.** Equine embryo transfer. GVMA Fall Convention, Destin, FL.
- 2006 **Troedsson, M.H.T.** Practical aspects of AI with cooled and frozen/thawed semen. GVMA Fall Convention, Destin, FL.
- 2006 **Troedsson, M.H.T.** Clinical aspects of placentitis. GVMA Fall Convention, Destin, FL.
- 2006 **Troedsson, M.H.T.** Equine dystocia and accidents of gestation. GVMA Fall Convention, Destin, FL.
- 2007 **Troedsson, M.H.T.** Breeding Management with Cooled transported semen. Ansager Dyreklinik Short Course. Jylland, Denmark.
- 2007 **Troedsson, M.H.T.** Management of High-Risk Pregnancies. Ansager Dyreklinik Short Course. Jylland, Denmark.
- 2007 **Troedsson, M.H.T.** Endometritis. Ansager Dyreklinik Short Course. Jylland, Denmark.
- 2007 **Troedsson, M.H.T.** Reproductive endocrinology and physiology of the mare, hormone therapy. Danish Veterinary Association, Billup, Denmark.
- 2007 **Troedsson, M.H.T.** Reproductive endocrinology and physiology of the stallion, hormone therapy. Danish Veterinary Association, Billup, Denmark.
- 2007 **Troedsson, M.H.T.** Breeding management. Danish Veterinary Association, Billup, Denmark.
- 2007 **Troedsson, M.H.T.** Stud Farm management. Danish Veterinary Association, Billup, Denmark.
- 2007 **Troedsson, M.H.T.** Ovarian Abnormalities. Danish Veterinary Association, Billup, Denmark.
- 2007 **Troedsson, M.H.T.** Normal pregnancy development. Danish Veterinary Association, Billup, Denmark.

- 2007 **Troedsson, M.H.T.** High risk pregnancies. Danish Veterinary Association, Billup, Denmark.
- 2007 **Troedsson, M.H.T.** Cooled, shipped, and frozen semen. Danish Veterinary Association, Billup, Denmark
- 2007 **Troedsson, M.H.T.** Assisted reproduction: Embryo and oocyte transfer, ICSI, Cloning. Danish Veterinary Association, Billup, Denmark
- 2007 **Troedsson, M.H.T.** Breeding management of mares with sick foals. Referring Veterinarian Appreciation Day at the University of Florida
- 2008 **Troedsson, M.H.T.** Breeding Management of the Mare. Breeding Management Short Course, University of Florida. 1 hr lecture.
- 2008 **Troedsson, M.H.T.** Common Fertility Problems. Breeding Management Short Course, University of Florida. 1 hr lecture.
- 2008 **Troedsson, M.H.T.** Breeding Management of the Mare. 8 hrs lab in semen handling, and AI. Breeding Management Short Course, University of Florida.
- 2009 **Troedsson, M.H.T.** Reproductive technologies for the stallion. Proc. Kentucky Breeders Seminar, Louisville, KY.
- 2009 **Troedsson, M.H.T.** Reproductive endocrinology and physiology of the mare, hormone therapy. Danish Veterinary Association, Billup, Denmark.
- 2009 **Troedsson, M.H.T.** Reproductive endocrinology and physiology of the stallion, hormone therapy. Danish Veterinary Association, Billup, Denmark.
- 2009 **Troedsson, M.H.T.** Breeding management. Danish Veterinary Association, Billup, Denmark.
- 2009 **Troedsson, M.H.T.** Stud Farm management. Danish Veterinary Association, Billup, Denmark.
- 2009 **Troedsson, M.H.T.** Ovarian Abnormalities. Danish Veterinary Association, Billup, Denmark.
- 2009 **Troedsson, M.H.T.** Normal pregnancy development. Danish Veterinary Association, Billup, Denmark.
- 2009 **Troedsson, M.H.T.** High risk pregnancies. Danish Veterinary Association, Billup, Denmark.
- 2009 **Troedsson, M.H.T.** Cooled, shipped, and frozen semen. Danish Veterinary Association, Billup, Denmark
- 2009 **Troedsson, M.H.T.** Assisted reproduction: Embryo and oocyte transfer, ICSI, Cloning. Danish Veterinary Association, Billup, Denmark.
- 2009 **Troedsson, M.H.T.** & Squires, E.L. Management of unwanted sexual behaviour in stallions and mares. University of Kentucky Diagnostic Research Seminars, Lexington, KY and West Liberty, KY.
- 2010 **Troedsson, M.H.T.** Kentucky Breeder's Short Course. Pregnancy losses: Diagnosis and Management. Fasig-Tipton, Lexington, KY
- 2010 **Troedsson, M.H.T.** Kentucky Breeder's Short Course. Controlling CEM with antibiotic treated semen. Fasig-Tipton, Lexington, KY.
- 2010 **Troedsson, M.H.T.** Ohio State University, College of Veterinary Medicine, Conference for Veterinarians - Current Topics on Broodmare Management. Columbus, OH.
- 2011 **Troedsson, M.H.T.** An update on research at the Maxwell Gluck Equine Research Center. Kentucky Farm Managers Short Course. Lexington, KY.
- 2011 **Troedsson, M.H.T.** Equine Endometritis. University of Kentucky Diagnostic Research Seminars, UK Veterinary Diagnostic Laboratory, Lexington, KY.
- 2012 **Troedsson, M.H.T.** Maxwell H. Gluck Equine Research Center Highlights. Kentucky Horse Council Annual meeting, Shaker Village, KY.
- 2013 **Troedsson, M.H.T.** Reproductive endocrinology and physiology of the mare, hormone therapy. Eickemeyer/ Ansager Dyrehospital short course, Jylland, Denmark.
- 2013 **Troedsson, M.H.T.** Sperm transport, normal pregnancy development, and management of twins. Eickemeyer/ Ansager Dyrehospital short course, Jylland, Denmark.
- 2013 **Troedsson, M.H.T.** Endometritis. Eickemeyer/ Ansager Dyrehospital short course, Jylland, Denmark.
- 2013 **Troedsson, M.H.T.,** Moller Nilesen, J. Ultrasound examination of the non pregnant mare including the use of Doppler ultrasonography. Eickemeyer/ Ansager Dyrehospital workshop, Jylland, Denmark.
- 2013 **Troedsson, M.H.T.** Ovarian abnormalities. Eickemeyer/ Ansager Dyrehospital short course, Jylland, Denmark.
- 2013 **Troedsson, M.H.T.** High risk pregnancies. Eickemeyer/ Ansager Dyrehospital short course, Jylland, Denmark.
- 2013 **Troedsson, M.H.T.** Cooled, shipped and frozen semen. Eickemeyer/ Ansager Dyrehospital short course, Jylland, Denmark.
- 2013 **Troedsson, M.H.T.** Ultrasound examination of the pregnant mare. Eickemeyer/ Ansager Dyrehospital workshop, Jylland, Denmark.

- 2014 **Troedsson, M.H.T.** Diagnosis of placentitis. Kentucky Breeder's short course. Lexington, KY.
- 2014 **Troedsson, M.H.T.** A review of the International Symposium on Equine Reproduction – conception, pregnancy, and perinatology. University of Kentucky Diagnostic Research Seminars, Lexington, KY.
- 2014 **Troedsson, M.H.T.** Oestrous cycle. European College of Animal Reproduction Summer School for Residents. Helsinki, Finland.
- 2014 **Troedsson, M.H.T.** Mating and Artificial Insemination. European College of Animal Reproduction Summer School for Residents. Helsinki, Finland.
- 2014 **Troedsson, M.H.T.** Physiology of Pregnancy. European College of Animal Reproduction Summer School for Residents. Helsinki, Finland.
- 2014 **Troedsson, M.H.T.** Parturition and Dystocia. European College of Animal Reproduction Summer School for Residents. Helsinki, Finland.
- 2014 **Troedsson, M.H.T.** Post-partum Complications. European College of Animal Reproduction Summer School for Residents. Helsinki, Finland.
- 2014 **Troedsson, M.H.T.** Neonatology. European College of Animal Reproduction Summer School for Residents. Helsinki, Finland.
- 2015 **Troedsson, M.H.T.** Old and new approaches for lighting programs in mares. 6th Annual Kentucky Breeders Short Course.
- 2015 **Troedsson, M.H.T.** Placentitis update. 6th Annual Kentucky Breeders Short Course.
- 2015 **Troedsson, M.H.T.** Breeding induced Endometritis – diagnosis and treatments. Course on Reproduction Medicine in Horses. University of Zurich, College of Veterinary Medicine.
- 2015 **Troedsson, M.H.T.** Equine Placentitis – diagnosis and treatments. Course on Reproduction Medicine in Horses. University of Zurich, College of Veterinary Medicine.
- 2015 **Troedsson, M.H.T.** Update on Endometritis Treatment. Olsztyn Veterinary School, Olsztyn, Poland (2 hours lecture for equine veterinarians)
- 2015 **Troedsson, M.H.T.** Equine Placentitis. Olsztyn Veterinary School, Olsztyn, Poland (1 hour lecture for equine veterinarians)
- 2015 **Troedsson, M.H.T.** Breeding Soundness Examination of the Mare. (Olsztyn Veterinary School, Olsztyn, Poland (3 hours wet lab).
- 2016 **Troedsson, M.H.T.** Endometritis wet lab. Al Shaqab Breeding and Show, Qatar.
- 2020 **Troedsson, M.H.T.** Nocardioform Placentitis: Future Research Directions. Gluck Equine Research Center Symposium on Nocardioform Placentitis.
- 2022 **Troedsson, M.H.T.** and Schnobrich, M. How to manage persistent breeding-induced endometritis in the mare. International Symposium on Equine Reproduction (ISER) Webinar.
- 2022 **Troedsson, M.H.T.** and Schnobrich, M. How to diagnose and manage placentitis in the mare. International Symposium on Equine Reproduction (ISER) Webinar.
- 2023 **Troedsson, M.H.T.** How to evaluate sperm-uterine interaction. International Symposium on Equine Reproduction (ISER) Webinar.

Scientific Presentations

- 1986 Viring, S., Bolske, G., Franklin, A., Reh binder, C., Segall, T. and **Troedsson, M.H.T.** Bacteriological findings in nasal and lower respiratory tract samples of calves with acute respiratory disease. XIV World Congress on Diseases of Cattle, Dublin.
- 1990 Liu, I.K.M., **Troedsson, M.H.T.**, Williams, D.C., and Pascoe, J.R. Electromyography of uterine activity in the mare: Comparison of single vs multiple recording sites. 5th International symposium on Equine Reproduction, Deauville, France.
- 1990 **Troedsson M.H.T.** Electromyography of the Equine Uterus. Conference on Biology of Reproduction, University of California, Davis CA.
- 1992 Liu, I.K.M., **Troedsson M.H.T.** and deMoraes, M.J. Correlation of endometrial biopsy with clinical response to intrauterine bacterial inoculation. John Hughes International Workshop on Equine Endometritis. Newmarket, England.
- 1992 Scott, M., **Troedsson, M.H.T.** and Liu, I.K.M. Comparison of various intrauterine treatments in mares with chronic uterine infections. John Hughes International Workshop on Equine Endometritis. Newmarket, England
- 1994 Samper, J.C., Hamilton, D.W., Pryor, J.L., Loseth, K.J., **Troedsson, M.H.T.** and Crabo, B.G. Mechanisms of Sephadex trapping of capacitated stallion spermatozoa. 6th International Conference on Equine

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- 1997* Madill, S., **Troedsson, M.H.T.**, Santschi, E.M. Individual registration of longitudinal and circular muscle in the equine myometrium using electromyography and strain gauges: Preliminary data. Havemeyer Foundation International Workshop on Uterine Defense Mechanisms in the Mare: Aspects of Physical Clearance. Gainesville, FL.
- 1997* Rozeboom, K.J., **Troedsson, M.H.T.**, Shurson, G.C., Hawton, J.D., and Crabo, B.G. Late estrus or metestrus insemination subsequent to estrual inseminations decreases farrowing rate and litter size in swine. ASAS/ADSA Midwest Section: Environment and Livestock Production.
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- 1997* Rozeboom, K.J., **Troedsson, M.H.T.**, Hawton, J.D., and Crabo, B.G. Timing of inseminations, uterine clearance and the post-mating inflammatory response in the sow. SFT/ACT Ann. Conf., Montreal, Canada.
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- 1997 Zent, W.W., **Troedsson, M.H.T.**, and Xue J-L. The incidence of post-breeding fluid accumulation in Thoroughbred mares, and its influence on fertility. 2nd International Workshop on Equine Endometritis/Endometrosis, Leipzig, Germany.
- 1988* Ababneh, M.M., **Troedsson, M.H.T.**, and Seguin, B.E. Characterization of equine conceptus prostaglandin inhibitor factor (PIF). VII International Symposium on Equine Reproduction. Pretoria, South Africa.
- 1988* Madill S., **Troedsson, M.H.T.**, Alexander, S.L., Shand, N., Santschi, E.M., and Irvine, C.H.G. Simultaneous recording of pituitary oxytocin secretion and myometrial activity in estrous mares exposed to various breeding stimuli. VII International Symposium on Equine Reproduction. Pretoria, South Africa.
- 1998* Bailey, M.T., Christman, S.A., Wheaton, J.E., **Troedsson, M.H.T.**, O'Brien, T.D., Ababneh, M.M., and Santschi, E.M. Inhibin localization in equine granulosa-theca cell tumors (GTCT) and dimeric inhibin concentrations and α -inhibin forms in tumor fluid and plasma. VII International Symposium on Equine Reproduction. Pretoria, South Africa.
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- 2002 Dahms, B.J., and **Troedsson, M.H.T.** The effect of seminal plasma components on opsonisation and PMN-phagocytosis of equine spermatozoa. 8th International Symposium on Equine Reproduction.
- 2002 L. Duoos, **Troedsson, M.H.T.**, Alghamdi, A.S., Miller, L., and Roberts, K.P. The importance of osmotic pressure for the quality of fresh, cooled, and cryopreserved equine spermatozoa. 8th International Symposium on Equine Reproduction.
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- 2003* Alghamdi, A.S., Foster, D.N., and **Troedsson, M.H.T.** Binding between equine spermatozoa and polymorphonuclear neutrophils. *AAEP FOCUS*.
- 2003* Miller, L.M.J., **Troedsson, M.H.T.**, Duoos, L., and Roberts, K.J. Immunohistochemical detection and localization of sperm protein 22 (SP22) in fresh and cryopreserved equine semen. The Society for the Study of Reproduction.
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- 2004* Hayna, J., Madill, S., and **Troedsson, M.H.T.** The effect of transvaginal aspiration of follicles on corpus luteum function in the mare. International Symposium on Equine Embryo Transfer, Rio de Janeiro, Brazil.
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- 2004* Christenson, B.W., **Troedsson, M.H.T.**, Oliva, M., Hernandez, J., Macpherson, M., Pozor, M., and Penfold, L. Influences of Age, Time of Year, and Sociosexual Status on Serum Testosterone Concentration in Captive Black Rhinoceros (*Diceros Bicornis*). 2004 Annual Conference of the SFT.
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- 2005* Miller, L.M., **Troedsson, M.H.T.** Expression and localization of sperm protein 22 kDa in stallions. University of Florida Research Emphasis Day.
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- 2005* Desvousges, A.L., Dow, C., Buhi, W.C., Hayna, J., and **Troedsson, M.H.T.** A selective role of seminal plasma in PMN-binding and phagocytosis of viable and non-viable equine spermatozoa. Society for Theriogenology, Charleston, SC
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- 2005 Macpherson, M.L., **Troedsson, M.H.T.** Diagnosis and treatment of equine placentitis. West Coast Equine Reproduction Symposium, Solvang, CA.
- 2006 Macpherson, M.L., **Troedsson, M.H.T.** Diagnosis and treatment of equine placentitis. Proveto Symposium on Equine Reproduction, The Netherlands.

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- 2006 M Pozor, ML Macpherson, **MHT Troedsson**, J Verstegen Effect of a single administration of human chorionic gonadotropin (hCG) on testicular blood flow in stallions. 8th International Symposium on Equine Reproduction. Kerkede, The Netherlands.
- 2006* Miller, L.M.J., Greene, E.S., Roberts, K.P., and **Troedsson, M.H.T.** Expression of Equine Sperm Protein 22 kDa (SP22) in Testicular and Epididymal Tissue. 8th International Symposium on Equine Reproduction. Kerkede, The Netherlands.
- 2006* Desvougges, A.L., Dow, C., Hayna, J.T., Miller, L., Jousan, D., Hansen, P. Buhi, W.C., and **Troedsson, M.H.T.** Heat Shock Induces Apoptosis in Equine Spermatozoa. 8th International Symposium on Equine Reproduction. Kerkede, The Netherlands.
- 2006.* Hayna, J.T., Madill, S., Roser, J.F. and **Troedsson, M.H.T.** The Effect of Transvaginal Aspiration of Small and Medium sized Follicles on Serum Progesterone, FSH and LH Concentrations in Mares. 8th International Symposium on Equine Reproduction. Kerkede, The Netherlands.
- 2007* Bailey, C.S., Macpherson, M.L., Graczyk, J., Pozor, M.A., **Troedsson, M.H.T.**, LeBlanc, M.M., and Vickroy, T.W. Treatment efficacy of trimethoprim sulfamethoxazole, pentoxifylline, and altrenogest in equine placentitis. Annual Meeting of the Society for Theriogenology.
- 2007* Doty, A.L. Vaerst, S., Benson, S., Pozor, M.A., Macpherson, M.L., Buhi, W.C. and **Troedsson, M.H.T.** Heat Shock of Equine Sperm Induce Structural and Functional damage to PMNs. Annual Meeting of the Society for Theriogenology.
- 2007* Eichelberger, A.C., **Troedsson, M.H.T.**, Pozor, M.A., and Macpherson, M.L. How to collect, handle, and process post-mortem epididymal sperm for breeding or assisted reproductive techniques. 53rd Annual Conv. AAEP.
- 2007* Bailey, C.S., Macpherson, M.L., Graczyk, J., Pozor, M.A., **Troedsson, M.H.T.**, LeBlanc, M.M., and Vickroy, T.W. Treatment efficacy of Trimethoprim Sulfamethoxazole, Pentoxifylline, and Altrenogest in equine placentitis. 53rd Annual Conv. AAEP.
- 2008* Phillips J.A., Eichelberger A.C., Klein C., Pozor M.A., and **Troedsson M.H.T.** Breeding Related Full-Thickness Vaginal Tear with Associated Peritonitis. Annual Meeting of the Society for Theriogenology, St. Louis, MO.
- 2008* Klein, C., **Troedsson, M.H.T.**, and Ealy, A.D. Deciphering embryo-maternal communication in the horse – A genomic approach. 6th Annual Research Symposium, Animal Molecular and Cellular Biology Graduate Program, Cedar Key, FL.
- 2008 Moller-Nielsen, J., **Troedsson, M.H.T.**, and Zent, W.W. Results of bacterial and cytological examinations of the endometrium in a practice in Denmark and in Central Kentucky, USA. Havemeyer Workshop on the Chronically Infertile Mare, Hilton Head Island, SC.
- 2009 Mozzaquatro, F.D., Verstegen, J.P., Douglas, R.H., **Troedsson, M.H.T.**, De la Corte, F.D., Rubin, M.I.B., and Silva, C.A.M. Progesterone profile secretion by *Corpus luteum* formed after follicular aspiration. 2nd Symposium on Animal Reproduction.
- 2010* Klein, C., Ealy, A., Scoggin, K., and **Troedsson, M.H.T.** Transcriptive profiling of equine endometrium during the time of maternal recognition of pregnancy. International Embryo Transfer Symposium, Argentina.
2010. S.J. Coleman, Z. Zeng, D. Miller, C. Klein, **M.H.T. Troedsson**, D.F. Antczak, J. Liu, and J.N. MacLeod. Generation of a Consensus Protein-Coding Equine Gene Set. Plant and Animal Genome XVIII Conference, San Diego, CA.
- 2011* Woodward, E. Christoffersen, M., Campos, J., Squires, E.D., **Troedsson, M.H.T.** Susceptibility to delayed uterine clearance after breeding: Relationship to endometrial biopsy score and age, and variations between seasons. SFT/ACT annual symposium, Milwaukee, WI.
- 2011 Baagoe, C.D., Haugaard, M.M., Petersen, M.R., Christoffersen, M., **Troedsson, M.H.T.**, Lehn-Jensen, H.L., Bojesen, A.M. *Streptococcus equi* subsp. *zooepidemicus* isolates from infectious endometritis belong to a distinct genetic group as assessed by pulsed-field gel electrophoresis. SFT/ACT annual symposium, Milwaukee, WI.
- 2011* Christoffersen, M, Woodward, E, Jacobsen, S, Bojesen, A.M., Petersen, M.R., Lehn-Jensen, H., and **Troedsson, M.H.T.** Endometrial gene expression of inflammatory cytokines and serum amyloid A in mares resistant or susceptible to persistent endometritis. SFT/ACT annual symposium, Milwaukee, WI.

- 2011* Woodward, E., Christoffersen, M., Campos, J., Betancourt, A., Horohov, D., Scoggin, K., Squires, E., and **Troedsson, M.** Endometrial cytokine expression in mares with different resistance to persistent breeding induced endometritis (PBIE) at multiple time points after insemination. Society for the Study of Reproduction (SSR) annual meeting, Portland, OR.
- 2012* Canisso, I.F., **Troedsson, M.H.T.**, Cray, C., Ball, B.A. Serum amyloid A and haptoglobin concentrations in pregnant mares with experimentally induced ascending placentitis. 31st Annual Symposium in Reproductive Science and Women's health. University of Kentucky.
- 2012* Esteller-Vico, A., **Troedsson, M.H.T.**, Squires, E.L. Flow cytometric determination of equine sperm concentration. Comparison with spectrophotometric methods. 31st Annual Symposium in Reproductive Science and Women's health. University of Kentucky.
- 2012* Hughes, S., Squires, E.L., **Troedsson, M.H.T.**, Stove, C.J. Effect of foaling season and reproductive status at time of breeding on occurrences of dystocia in Thoroughbred mares in central Kentucky. 31st Annual Symposium in Reproductive Science and Women's health. University of Kentucky.
- 2012* Keith, L.A., Woodward, E.M., Scoggin, K.E., Squires, E.L., **Troedsson, M.H.T.**, Ball, B.A. Diestrus oxytocin administration prolongs luteal function and decreases endometrial cyclooxygenase-2 expression in mares. 31st Annual Symposium in Reproductive Science and Women's health. University of Kentucky.
- 2012* Woodward, E., Christoffersen, M., Campos, J., Betancourt, A., Horohov, D., Scoggin, K., Squires, E., **Troedsson, M.** Endometrial cytokine expression in mares with different resistance to persistent breeding induced endometritis (PBIE) at multiple time points after insemination. 31st Annual Symposium in Reproductive Science and Women's health. University of Kentucky.
- 2012* Canisso, I.L., Ball, B.A., **Troedsson, M.H.T.**, Klein, C., Stanley, S.D. 2012. Diagnostic markers for experimentally induced placentitis in the mare. 9th International Conference on Equine Infectious Diseases, Lexington, KY.
- 2012* Campos, J.R., **Troedsson, M.H.T.**, Breheny, P., Araujo, R. Squires, E.L., Timoney, P.J., Balasuriya, U.B.R. 2012. Changes in semen quality in stallions challenged with the Kentucky 84 (KY84) strain of equine arteritis virus. 9th International Conference on Equine Infectious Diseases, Lexington, KY.
- 2012* Campos, J.R., **Troedsson, M.H.T.**, Breheny, P., Araujo, R. Squires, E.L., Timoney, P.J., Balasuriya, U.B.R. Indirect effects of equine arteritis virus on semen quality in stallions challenged with the Kentucky 84 (KY84) strain of virus. 6th International symposium on Stallion Reproduction, Vienna, Austria.
- 2012* Canisso, I.F., **Troedsson, M.H.T.**, Cray, C., Ball, B.A. Serum amyloid A and haptoglobin concentrations in pregnant mares with experimentally induced ascending placentitis. AAEP annual convention, Anaheim, CA.
- 2013* Canisso, I.F., Ball, B.A., **Troedsson, M.H.T.**, Silva, E.S.M., Davolli, G.M. (2013) Decreasing pH of mammary gland secretions predict foaling and are correlated with electrolyte concentrations in pre-foaling mares. AAEP annual convention, Nashville, TN.
- 2013* Canisso, I.F., Ball, B.A., Scoggin, K., **Troedsson, M.H.T.** Diagnosis of equine placentitis: Potential role of acute phase proteins, steroids, microRNA and fetal fluid composition. 32nd Annual Symposium in Reproductive Science and Women's health. University of Kentucky.
- 2013* Kalmar, J.J., Ball, B.A., **Troedsson, M.H.T.**, McQuerry, K.J. Skaife, J., Loomis, P.I., Squires, E.L. Factors affecting freezability of stallion semen. 32nd Annual Symposium in Reproductive Science and Women's health. University of Kentucky.
- 2013 Ball, B.A., Canisso, I.F., Esteller-Vico, A., **Troedsson, M.H.T.**, Stanley, S. Estrogen as potential diagnostic markers in mares with experimentally induced ascending placentitis. AAEP annual convention, Nashville, TN.
- 2013* Walter, J.C., Esteller-Vico, A., **Troedsson, M.H.T.**, Ball, B.A. Development and validation of enzyme immunoassay for the measurement of circulating testosterone levels in the equine. 32nd Annual Symposium in Reproductive Science and Women's health. University of Kentucky.
- 2013* Esteller-Vico, A., Walter, J., Hughes, S., Squires, E.L., **Troedsson, M.H.T.**, Ball, B.A. Determination of testosterone and estrone sulfate half-lives and best sampling times post-hCG challenge in stallions. AAEP annual convention, Nashville, TN.
- 2013* Woodward, E., Christoffersen, M., Horohov, D., Squires, E., **Troedsson, M.** The effect of immune modulators on endometrial cytokine expression in mares susceptible to persistent breeding induced endometritis (PBIE). 32nd Annual Symposium in Reproductive Science and Women's health. University of Kentucky.
- 2013* Petersen, M.R., Lu, K., Christoffersen, M., Møller Nielsen, J., **Troedsson, M.H.T.**, Bojesen, A.M.

- Impact of activation and subsequent antimicrobial treatment of dormant endometrial streptococci in the Thoroughbred problem mare – a descriptive field study. SFT/ACT annual symposium, Louisville, KY.
- 2013* Esteller-Vico A., Scoggin K.E., Squires E.L., Ball B.A., **Troedsson M.H.T.** (2013) Equine Lactoferrin increases *in vitro* binding of Polymorphonuclear Neutrophils to Spermatozoa. SFT/ACT annual symposium, Louisville, KY.
- 2013* Canisso, I.F., Ball, B.A., **Troedsson, M.H.T.**, Claes, A, Scoggin, K.E., Erol, E., Williams, N.M., Squires, E.L. (2013) Experimental induction of nocardioform placentitis in mares. SFT/ACT annual symposium, Louisville, KY.
- 2013* Woodward, E.M., Metcalf, E., Scoggin, K., Christoffersen, M., Horohov, D., Squires, E.L., Clausen, P., **Troedsson, M.H.T.** (2013) The effect of immune modulators on endometrial cytokine expression in mares susceptible to persistent breeding induced endometritis. SFT/ACT annual symposium, Louisville, KY.
- 2013* Esteller-Vico, A. Scoggin, K.E., Squires, E.L., **Troedsson, M.H.T.**, Ball, B.A. (2013) Effects of low progesterone concentrations on endometrial transcription at days 8 and 12 of the estrous cycle in mares. Havemeyer Foundation Workshop on Equine Implantation. Savannah, GA Oct. 28-29.
- 2013 Ababneh, M., **Troedsson, M.H.T.** (2013) Ovarian steroid regulation of the prostaglandin generating system in the stimulated estrous cycle in ovariectomized mares. Havemeyer Foundation Workshop on Equine Implantation. Savannah, GA Oct. 28-29.
- 2014* Woodward, E.L., **Troedsson, M.H.T.**, Doty, A.L., Esteller-Vico, A, Scoggin, K.E. CRISP-3 and lactoferrin in equine seminal plasma are involved in selective sperm transport in the mare's reproductive tract. 7th Leipzig Expert Workshop on Equine Reproduction, Leipzig, Germany.
- 2014 AS Alghamdi, K Scoggin, E Woodward, G Davolli, C Fedorka, A Claes, **MHT Troedsson**, Localization of Lactoferrin binding sites on equine spermatozoa. 11th International Symposium on Equine Reproduction, Hamilton, New Zealand.
- 2014 ML Macpherson, S Giguere, MA Pozor, TW Vickroy, **MHT Troedsson**, SA Benson, E Runcan, JN Hatzel, J Larson, E vandenBerg, AA Kelleman, MM LeBlanc, LC Sanchez. Pharmacokinetics of ceftiofur sodium in equine pregnancy. 11th International Symposium on Equine Reproduction, Hamilton, New Zealand.
- 2014* Woodward EM, Squires EL, Ball BA, **Troedsson MHT**. A transcriptomic investigation of the equine endometrial response to breeding. 11th International Symposium on Equine Reproduction, Hamilton, New Zealand.
- 2014* JJ Kalmar, BA Ball, **MHT Troedsson**, KJ McQuerry, J Baumber-Skaife, PR Loomis, EL Squires Effect of number of mounts and pre-freeze concentration on stallion seminal parameters. 11th International Symposium on Equine Reproduction, Hamilton, New Zealand.
- 2014* LMJ Miller, EM Woodward, JR Campos, N Williams, **MHT Troedsson**. Presence and Distribution Pattern(s) of Sperm Protein at 22 kDa (SP22) on Ejaculated and Caudal Epididymal Equine Spermatozoa Prior to and Following Heat Induced Testicular Degeneration. 11th International Symposium on Equine Reproduction, Hamilton, New Zealand.
- 2014* CE Fedorka, EW Woodward, A Claes, BB Ball, EL Squires, **MHT Troedsson**. Immune response of the equine uterus after insemination with live versus dead spermatozoa. 11th International Symposium on Equine Reproduction, Hamilton, New Zealand.
- 2014 A Esteller-Vico, **MHT Troedsson**, EL Squires, BA Ball. Inhibition of estrogen synthesis during the last trimester of gestation: changes in endocrine patterns, fetal growth and uterine artery hemodynamics in mares. 11th International Symposium on Equine Reproduction, Hamilton, New Zealand.
- 2014 Runcan E, Macpherson ML, Pozor MA, Benson SM, Connor M, Van den Berg E, Larson J, Hatzel JN, Giguere S, Mallicote M, **Troedsson MHT**, McNaughten JW. Inducing Parturition in the Mare Using a Modified Low-dose Oxytocin Protocol. 11th International Symposium on Equine Reproduction, Hamilton, New Zealand.
- 2014.* IC Canisso, BA Ball, **MHT Troedsson**, C Cray, GM Davolli, EL Squires, NM Williams. Acute phase proteins and blood leukocyte counts in mares with experimentally induced ascending placentitis. 11th International Symposium on Equine Reproduction, Hamilton, New Zealand.
- 2014* A. Claes, B.A. Ball, K.E. Scoggin, A.J. Conley, J.J. Kalmar, E.L. Squires, **M.H.T. Troedsson**. The interrelationship between antral follicle count, anti-Müllerian hormone concentration, and age in mares. 11th International Symposium on Equine Reproduction, Hamilton, New Zealand.
2014. C.M. Walsh, E.M. Woodward, R.L. Prendergast, J.P. Ryle, L.H. Fallon, **M.H.T. Troedsson** and B.A. Murphy. Mobile blue light therapy is as effective as stable lighting at advancing seasonal reproductive

- activity in mares. 11th International Symposium on Equine Reproduction, Hamilton, New Zealand.
2014. Christoffersen, M., Brandis, L., Samuelsson, J., Bojesen, A. M., **Troedsson, M. H. T.** and Petersen, M. R. Diagnostic double guarded low-volume uterine lavage in mares. Society For Theriogenology Annual meeting, Portland, OR.
- 2014.* Canisso, I.F. Ball, B.A., Esteller-Vico, A., Squires, E.L. **Troedsson, M.H.T.** Dehydroepiandrosterone sulfate and testosterone concentrations in mares carrying normal pregnancies. Society For Theriogenology Annual meeting, Portland, OR.
- 2014.* Fedorka, C.E., Davolli, G.M., Squires, E.L., Ball, B.A., **Troedsson, M.H.T.** Sperm motility and fertility of cooled preserved stallion semen extended in either INRA96 or EquiPro CoolGuard. Society For Theriogenology Annual meeting, Portland, OR.
- 2014 Schnobrich, M.R., Howard, C., Bradecamp, E.A., Riddle, W.T., Barber, B.K., Cray, C., **Troedsson, M.H.T.**, Squires, E.L., Ball, B.A. (2014) Comparison of serum amyloid A concentrations in Thoroughbred mares experiencing embryonic loss and in mares maintaining pregnancy. Society For Theriogenology Annual meeting, Portland, OR.
- 2014* Davolli, G.M., Ball, B.A., Esteller-Vico, A., Claes, A., Canisso, I., Fedorka, C., Woodward, E. **Troedsson, M.H.T.**, Squires, E.L. (2014) Effects of a third-generation GnRH antagonist on equine reproductive parameters in the stallion. Society For Theriogenology Annual meeting, Portland, OR.
- 2014* Esteller-Vico, A. Scoggin, K.E., Squires, E.L., **Troedsson, M.H.T.**, Ball, B.A. Effects of low serum progesterone concentrations on endometrial transcription at days 8 and 12 of the estrous cycle in mares. Society For Theriogenology Annual meeting, Portland, OR.
- 2014* Claes, A., Ball, B.A., Scoggin, K.E., Fedorka, C., Squires, E.L., **Troedsson, M.H.T.** (2014) Endocrine and molecular changes in the equine follicle associated with ageing in mares. Society For Theriogenology Annual meeting, Portland, OR.
- 2015* Fedorka, C.E, Scoggin, K.E., Ball, B.A., Squires, E.L., **Troedsson, M.H.T.** (2015) Cysteine-rich Secretory Protein-3 (CRISP-3) Expression in the Reproductive Tract of Prepubertal and Mature Stallions. Society for the Study of Reproduction, San Jose, Porto Rico.
- 2015 Carossino, M., Loynachan, A.T., Campos, J.R., Nam, B., Canisso, I.F., Young Go, Y., Timoney, P.J., Shuck, K.M., Henney, P., **Troedsson, M.H.T.**, Cook, R.F., Swerczek, T., Squires, E.L., Bailey, E., and Balasuriya, UBR. Sites of equine arteritis virus persistence in the stallion's reproductive tract and characterization of the local inflammatory response to the virus. Conf. Res. Work. An. Dis. Chicago, IL.
- 2015 Carossino, M., Loynachan, A.T., Campos, J.R., Nam, B., Canisso, I.F., Go, Y.Y., Timoney, P.J., Shuck, K.M., Henney, P., **Troedsson, M.H.T.**, Cook, R.F., Swerczek, T., Squires, E.L., Bailey, E., Balasuriya, U.B.R. (2015) Characterization of the local inflammatory response in the reproductive tract of the equine arteritis virus carrier stallion. Am. Assoc. Vet. Lab. Diagn. Providence, RI.
- 2015 Carossino, M., Loynachan, A.T., Campos, J.R., Nam, B., Canisso, I.F., Go, Y.Y., Timoney, P.J., Shuck, K.M., Henney, P., **Troedsson, M.H.T.**, Cook, R.F., Swerczek, T., Squires, E.L., Bailey, E., Balasuriya, U.B.R. Sites of equine virus arteritis localization in the reproductive tract during long-term persistence in the stallion. Am. Assoc. Vet. Lab. Daign. Providence, RI.
- 2016* Woodward, E.M. Kalbfleisch, Stromberg, A., Lambert, Ball, B.A., Squires, E.L., **Troedsson, M.H.T.** RNA sequencing to investigate equine breeding induced endometritis in mares resistant or susceptible to persistent breeding induced endometritis. 9th International Conference on Equine Reproductive Medicine, Leipzig, Germany.
- 2016 Petersen, M.R., Christoffersen, M., **Troedsson, M.H.T.**, Bojesen, A.M. (2016) High prevalence of dormant streptococci in the endometrium of mares with *Escherichia coli* endometritis. 9th International Conference on Equine Reproductive Medicine, Leipzig, Germany.
- 2016 Loux, S.C., Scoggin, K., **Troedsson, M.H.T.**, Squires, E.L., Ball, B.A. Proteomic analysis of the cervical mucus plug during pregnancy in mares. Int. Symp. Eq. Embryo Transf. Ghent, Belgium.
- 2016 Loux, S.C., Ball, B.A., Wang, K., Scoggin, K.E., Dini, P., Stromberg, A., Squires, E.L., **Troedsson, M.H.T.** Differential Expression of MicroRNAs Throughout Gestation in the Mare. International Congress on Animal Reproduction. Tours, France.
- 2017 Loux, S.C., Fernandes, C.B., Wang, K., Baxter, D., Wu, X., Dini, P., **Troedsson, M.H.T.**, Squires, E.L., Ball, B.A. Alterations in miRNA Expression During Placental Infection in the Mare. Society for the Study of Reproduction. Washington, DC.
- 2017 Loux, S.C., Fernandes, C.B., Wang, K., Baxter, D., Wu, X., Dini, P., **Troedsson, M.H.T.**, Squires, E.L., Ball, B.A. Utilization of RNA-Sequencing Technology to Characterize miRNA Expression During

- Placental Infection in the Mare. UT-KBRIN Bioinformatic Summit. Montgomery Bell State Park, TN.
- 2017 Pouya, D., Loux, S.C., Scoggin, K.E., Esteller-Vico, A., Squires, E.L., **Troedsson, M.H.T.**, Daels, P., Ball, B.A. Differential expression of the chromosome14 microRNA cluster across gestational ages. Soc. Study. Reprod. Annual Conf.
- 2017 Loux, S.S., Fernandes, C.B., Wang, K., Baxter, D., Wu, X., Dini, P., **Troedsson, M.H.T.**, Squires, E.L., Ball, B.A. Alterations in miRNA expression during placental infection in the mare. Society for the Study of Reproduction., Washington, DC.
- 2017 Carossino, M., Loynachan, A.T., Campos, J.R., Nam, B., Canisso, I.G., Go, Y.Y., Timoney, P.J., Shuck, K.M., Henney, P., **Troedsson, M.H.T.**, Cook, R.F., Swerczek, T.W., Squires, E.L., Bailey, E.F., Balasuriya, U.B.R. Equine Arteritis Virus tissue and cellular tropism during persistent in the stallion reproductive tract. XIVth International Nidovirus Symposium, Kansas City, MO.
2018. Fernandes, C.B., Esteller-Vico, A., Loux, S.C., Scoggin, K.E., Boakari, Y.L., Squires, E.L., **Troedsson, M.H.T.**, Ball, B.A. Upregulation of inflammatory cytokines is associated with alteration in prostaglandin pathways and sex-steroid receptors in the cervix of mares with placentitis. 12th (International Symposium on Equine Reproduction. Cambridge, UK.
- 2019* Fedorka, C.E., Ball, B.A., Scoggin, K.E., Loux, S.C., **Troedsson, M.H.T.**, Adams, A.A. Feto-maternal Immune Response to Ascending Placentitis. SFT/ACT Annual meeting, Savannah, GA.
- 2019* Walker O.F., Fedorka, C.E., **Troedsson, M.H.T.** Effect of IVIG on regulatory T-cell populations in the mare. Lincoln Memorial University, College of Veterinary Medicine Research Day.
- 2020* Fedorka, C.E., Loux, S.C., Scoggin, K.E., **Troedsson, M.H.T.**, Ball, B.A. Understanding the host immune response to equine pregnancy. 10th International Conference on Equine Reproductive Medicine.
- 2020* Fedorka C.F., Murase, H., Loux, S.C., Loynachan, A.T. Walker, O.F., Squires, E.L., Ball, B.A., **Troedsson, M.H.T.** The effect of mycobacterium cell wall fraction on histological, immunological, and clinical parameters of equine post-partum involution. SFT/ACT Annual meeting, Pittsburg, PA.
- 2020 Bucca, S., Sousa, I.R., Vinardell, T., Cunanan, J., **Troedsson, M.H.T.** Doppler indices of the equine fetal carotid artery throughout gestation. AAEP Annual Conference, Las Vegas, NV.
- 2020* Fedorka, C.E., Scoggin, K.E., Loux, S.C., El-Sheikh Ali, H., Dini, P., **Troedsson, M.H.T.**, Ball, B.A. The use of interleukin-6 (IL-6) as a biomarker for ascending placentitis. AAEP Annual Conference, Las Vegas, NV.
- 2022 Schnobrich, M., Douglas, R., **Troedsson, M.H.T.**, Fedorka, C.F. Decreased equine chorionic gonadotropin secretion following hysteroscopic-guided injection of an immunomodulatory. AAEP Annual Conference, San Antonio, TX.
- 2023 Loux SC, Scoggin KE, Loynachan A, Menarim B, May MG, Muderspach N, **Troedsson MHT**, Kalbfleisch TS. Intrauterine Vitamin D3 Improves Inflammation Resolution in Mares Susceptible to Persistent Breeding-Induced Endometritis. Equine Science Society. Dallas, TX.
- 2023* Muderspach, N.D., Agerholm, J.S., **Troedsson, M.H.T.**, Ferreira-Dias, G., Schoof, E.M., Fedorka, C.F., Miller, L.M.J., Wood, P.L., Christoffersen, M. Proteomic profiling and identification of biomarkers for equine endometrial fibrosis. Poster presentation (NDM) at UBUNTU Proteomic Summer School, French Proteomic Society, Cape Town, South Africa.
- 2023 Fedorka, C.E. Schnobrich, M. Muderspach, N., Dedman, M., Weigle, K., May, M., Twist, H., Douglas, B., **Troedsson, M.H.T.** Utilizing an immunostimulant (Settle®) to hasten the degradation of endometrial cups. ISER XIII, Foz do Iguaçu, Brazil.
- 2023* Muderspach, N., Agerholm, J., **Troedsson, M.H.T.**, Ferreira-Dias, G., Christoffersen, M. Are degenerative changes in a single endometrial biopsy representative for the endometrial state? ISER XIII, Foz do Iguaçu, Brazil.
- 2023 Scoggin, K.E., Borlee, B.R., Fedorka, C.E., **Troedsson, M.H.T.** Identification of endometrial biofilm specific proteins for *in vivo* diagnostics. ISER XIII, Foz do Iguaçu, Brazil.
- 2023 Loux, S.C., Scoggin, K.E., Loynachan, A., Menarim, B., May, M.G., Muderspach, N., Fedorka, C.E., **Troedsson, M.H.T.**, Kalbfleisch, T.S. Intrauterine Vitamine D3 improves inflammatory resolution in mares susceptible to persistent breeding-induced endometritis. ISER XIII, Foz do Iguaçu, Brazil.
- 2023 Fedorka, C., F., Schnobrich, M.R., **Troedsson, M.H.T.** How To Bring A Mare Into Estrus Following Pregnancy Loss. 69th Annual Conv. AAEP. San Diego.
- 2024 Fedorka, C.E., **Troedsson, M.H.T.** Immune-mediated biomarkers for ascending placentitis. 12th International Conference on Equine Reproductive Medicine, Leipzig, Germany.

- 2024 Whitehead A., **Troedsson, M.H.T.**, Loux, S., Hamilton, B., Pletcher, P. Faulkner, V. (2024) Comparison of equine semen quality after cooled storage in the absence vs presence of antibiotics and Vitamin D. Lincoln Memorial University College of Veterinary Medicine Research Day.
- 2024 May, M., Muderspach, N., Christofferson, M., **Troedsson, M.H.T.**, Miller, L.M.J (2024) Novel biomarkers for early diagnosis and prognosis of endometrial fibrosis in the mare. Lincoln Memorial University College of Veterinary Medicine Research Day.
- 2024* Muderspach, N.D., Daucke, R., Wennekers Nielsen, M., Scoggin, K.E., Fedorka, C.E., Miller, L.M.J., May, M.G., **Troedsson, M.H.T.**, Ferreira-Dias, G., Agerholm, J.S., Schoof, E.M., Christoffersen, M. Plasma and endometrial proteome of mares with healthy and fibrotic endometria. Fifth Int. Conf. on Uterine Disorders in Farm Animals, Ceacow, Poland

** Presentation by graduate student or resident*

Invited Presentations

- 1990 Uterine clearance of non-antigenic markers (51Cr) in response to a bacterial challenge in mares potentially susceptible and resistant to chronic uterine infections. 5th International symposium on Equine Reproduction, Deauville, France.
- 1990 Electromyography of uterine activity in mares susceptible and resistant to chronic uterine infections. Symposium on Embryo Transfer and Reproductive Immunology, Guelph Ontario, Canada.
- 1992 Pathogenesis and treatment of chronic uterine infection. American Assoc Equine Pract. Orlando, Florida.
- 1992 Electromyographic recordings of myometrial activity in mares susceptible and resistant to chronic uterine infection. International Congress on Animal Reproduction. The Hague, Netherlands.
- 1992 PMN function in mares susceptible and resistant to chronic uterine infection. John Hughes International Workshop on Equine Endometritis. Newmarket, England.
- 1992 Electromyographic measurement of myometrial activity in mares susceptible and resistant to chronic endometritis. John Hughes International Workshop on Equine Endometritis. Newmarket, England.
- 1992 Pathogenesis and treatment comparisons for chronic endometritis. 14th Lake Tahoe Equine Conference.
- 1992 Rhodococcus pneumonia in the foal. Swedish Racing Board and AGRIA Insurance Company. Symposium on Rhodococcus Equi, Stockholm, Sweden.
- 1994 Smooth muscle electrical activity in the oviduct and the effect of oxytocin, PGF2a and PGE2 on the myometrium and oviduct of the cycling mare. 6th International Conference on Equine Reproduction, Caxambu, Brazil.
- 1994 The effect of acepromazine, detomidine and xylazine on myometrial electrical activity in the mare. 6th International Conference on Equine Reproduction, Caxambu, Brazil.
- 1994 Uterine defense mechanisms in the mare. Assisted Reproductive Technology/ Andrology Conference, Innsbruck, Austria.
- 1995 Post-mating endometritis in the mare: A physiological or pathological response? School of Veterinary Medicine, Federal University of Rio Grande do Sul, Porto Alegre, Brazil.
- 1995 Mating-induced endometritis (MIE): Mechanisms, clinical importance and consequences. American Assoc. Equine Pract, Lexington, Kentucky.
- 1995 Uterine response to semen deposition in the mare. Annual Conference of the Society for Theriogenology, San Antonio, Texas.
- 1995 Infertility in the mare. 1st Annual International Congress on Animal Reproduction Techniques, Cidreira, Brazil.
- 1995 Periparturient complications in mares and neonates. 1st Annual International Congress on Animal Reproduction Techniques. Cidreira, Brazil.
- 1995 Mechanism of sperm-induced endometritis in the mare. Society for the Study of Reproduction, Davis, CA.
- 1996 Sperm transport and survival in the female genital tract. Second International Symposium on Stallion Semen: Production, Evaluation & Preservation. Amersfoort, The Netherlands.
- 1996 Treatment strategies in mares with endometritis. Mare Reproduct. Symp., Kansas City, MI.
- 1997 Mechanisms of semen-induced endometritis in the mare. University of Utrecht, the Netherlands
- 1997 Endometritis in the mare: Previous research,"state of the art", and future research needs. Symposium on Equine Reproduction, Swedish Racing Board, Uppsala, Sweden.
- 1997 Persistent Mating-Induced Endometritis: A clinical review. Havemeyer Foundation International Workshop on Uterine Defense Mechanisms in the Mare: Aspects of Physical Clearance. Gainesville, FL.

- 1997 Therapeutic considerations for mating-induced endometritis. 1st International Conference on Equine Endometritis/ Endometrosis, Leipzig, Germany.
- 1997 Post-breeding endometritis: The role of seminal components. 2nd Int. Workshop on Equine Endometritis/Endometrosis, Leipzig, Germany.
- 1997 Pathophysiology and treatment of endometritis. Equine reproduction symposium. International Committee on Equine Reproduction, Lexington, Kentucky
- 1997 Ultrasonography of fetal membranes. Equine reproduction symposium. International Committee on Equine Reproduction, Lexington, Kentucky
- 1997 Equine Endometritis: Pathophysiology and therapeutic considerations. XXV Brazilian Veterinary Medicine Congress, Gramado, Brazil.
- 1997 Equine dystocia. Equine Clinic and Reproduction, School of Veterinary Medicine, Santa Maria, Brazil.
- 1997 Transrectal ultrasonography of the equine placenta. Equine Clinic and Reproduction, School of Veterinary Medicine, Santa Maria, Brazil.
- 1997 Equine embryo transfer. Equine Clinic and Reproduction, School of Veterinary Medicine, Santa Maria, Brazil.
- 1997 Breeding management of mares inseminated with cooled transported or frozen semen. Equine Clinic and Reproduction, School of Veterinary Medicine, Santa Maria, Brazil.
- 1997 Endometritis in the mare. Equine Clinic and Repr., School of Veterinary Medicine, Santa Maria, Brazil.
- 1997 Transrectal ultrasonography of the placenta in normal mares and mares with pending abortion: A field study. Proc. Am. Assoc. Eq. Pract, Phoenix, AZ.
- 1998 Post-breeding endometritis: Pathophysiology and clinical implications. College of Veterinary Medicine, University of Florida.
- 1988 The role of seminal components in breeding-induced endometritis. Veterinary PathoBiology/ Animal Biotechnology seminar series. University of Minnesota.
- 1988 Post-breeding uterine inflammation: The role of seminal plasma. VII International Symposium on Equine Reproduction. Pretoria, South Africa.
- 1998 Transrectal ultrasound evaluation of the placenta in normal mares and mares with impending abortion. Havemeyer Foundation Workshop on Equine Placentitis. Lexington, KY.
- 1998 Placentitis. Bluegrass Equine Reproduction Symposium. Lexington, KY.
- 1998 Uterine clearance and fertility. Bluegrass Equine Reproduction Symposium. Lexington, KY.
- 1998 Sperm motility is altered in uterine secretions from mares with post-breeding endometritis. Am. Assoc. Eq. Pract, Baltimore, MA.
- 1999 Management of the high-risk pregnant mare. The Flammish Equine Practitioners 1st Annual Meeting, Gent, Belgium.
- 1999 Clinical evaluation of the reproductive tract of the mare. Annual Meeting of the Society for Theriogenology, Nashville, TN.
- 1999 Suppression of PMN-chemotaxis by different molecular weight fractions of seminal plasma. 2nd International Conference on Equine Reproductive Medicine: Ethiology, Diagnosis, and Therapy of Conceptional and Gestational Disturbances. Celle, Germany.
- 2000 The pathophysiology and therapy of endometritis in the mare. International Seminar SIVE, Cremona, Italy.
- 2000 The role of seminal plasma in the modulation of breeding induced endometritis. International Seminar SIVE, Cremona, SIVE.
- 2000 Diagnostics and management of mares with placentitis. International Seminar SIVE, Cremona, SIVE.
- 2000 Diagnostics and clinical management of ovarian problems. International Seminar SIVE, Cremona, SIVE.
- 2000 Diagnostic work-up for barren mares and breeding the problem mare. Bluegrass Equine Reproductive Symposium, Lexington, KY.
- 2001 Interaction between equine semen and the endometrium: The inflammatory response to semen. 3rd International Symposium on Stallion Reproduction, Fort Collins, CO
- 2001 Topics in Equine Reproduction. Annual meeting of the Swedish Stud Farm Association, Sweden.
- 2001 The effect of equine seminal plasma on opsonisation and phagocytosis by polymorphonuclear neutrophils. The 2nd Leipzig Expert Workshop on Equine Medicine. Leipzig, Germany.
- 2001 Ultrasonographic evaluation of the equine placenta. The 3rd International Conference on Equine Reproductive Medicine. Leipzig, Germany.
- 2001 Management of the infertile mare. Proceedings, West Coast Equine Reproduction Symposium, Ca.
- 2002 The inflammatory interaction between seminal components and the endometrium: Function and clinical

- importance. University of Florida.
- 2002 Equine Reproduction. Swedish Equine Breeders Association, Stockholm, Sweden
- 2002 Equine seminal plasma protects the fertility of spermatozoa in an inflamed environment. 8th International Symposium on Equine Reproduction, Fort Collins, CO.
- 2003 Seminal plasma: Does it matter? Physiology Science Seminar series. University of Florida.
- 2003 The role of seminal components in breeding-induced endometritis in mares. Animal Molecular and Cellular Biology Seminar series. University of Florida.
- 2003 Clinical importance of breeding-induced endometritis in the mare. State of the art lecture. AAEP FOCUS, Fort Collins, CO.
- 2003 Equine embryo transfer. The 3rd International Conference on Equine Reproductive Medicine. Leipzig, Germany.
- 2003 Pathophysiology of ovarian abnormalities in the mare. The 3rd International Conference on Equine Reproductive Medicine. Leipzig, Germany.
- 2003 The effect of equine granulosa-theca cell tumors (GCT) on the pituitary-ovarian endocrine axis. The 3rd Leipzig Expert Workshop on Equine Medicine. Leipzig, Germany.
- 2003 Cryopreservation of equine spermatozoa alters the expression of sperm protein 22 kDa (SP22). Havemeyer Workshop on transporting gametes and embryos. Brewster, MA.
- 2003 Role of seminal plasma in freezing equine spermatozoa. Havemeyer Workshop on transporting gametes and embryos. Havemeyer Workshop on transporting gametes and embryos. Brewster, MA.
- 2003 Clinical ultrasonographic evaluation of the equine placenta as a method to successfully identify and treat mares with placentitis. Workshop on the Equine Placenta. The Maxwell H. Gluck Equine Research Center, University of Kentucky, Lexington, KY.
- 2004 Endometritis: Still a major problem in brood mare practice. AAEP 6th Annual Resort Symposium, Cozumel, Mexico.
- 2004 Placentitis: When do we treat and with what? AAEP 6th Annual Resort Symposium, Cozumel, Mexico.
- 2004 Breeding-induced endometritis in the mare: Clinical importance and management of mares with persistent endometritis. Symposium on Equine Reproduction, Bage, Brazil.
- 2004 Breeding with frozen semen. Symposium on Equine Reproduction, Bage, Brazil.
- 2004 Assisted Reproduction. Symposium on Equine Reproduction, Bage, Brazil.
- 2004 Ovarian abnormalities in the mare. Symposium on Equine Reproduction, Bage, Brazil.
- 2004 Ultrasonographic evaluation of the equine placenta as a method to successfully identify and treat mares with placentitis. Symposium on Equine Reproduction, Bage, Brazil.
- 2004 Dystocia and accidents of gestation. Symposium on Equine Reproduction, Bage, Brazil.
- 2004 Equine Placenta: Evaluation and pathology. Bluegrass Equine Reproduction Symposium, Lexington, KY.
- 2005 A clinical approach to endometritis. Ontario Veterinary Medical Association, Toronto, ON, Canada.
- 2005 Diagnosis and management of equine placentitis: A clinical perspective. Proceedings, Ontario Veterinary Medical Association, Toronto, ON, Canada.
- 2005 Protective role of seminal plasma in sperm-induced endometritis. European Association of Animal Production. Uppsala, Sweden.
- 2005 Components in Seminal Plasma Regulating Sperm Transport. 4th International Symposium on Stallion Reproduction, Leipzig, Germany.
- 2005 The role of specific seminal plasma components in breeding-induced endometritis. Select Breeder Sires Annual meeting, Ocala, FL
- 2006 Management of Problem Mares. The Dutch Warmblood Association Annual Meeting, Ocala, FL
- 2006 Management of High-Risk Pregnant Mares. The Dutch Warmblood Association Annual Meeting, Ocala, FL
- 2006 Infertility in the Mare. Zwolle International Equine Congress, Zwolle, The Netherlands.
- 2006 Managing the post-breeding endometritis mare for optimal fertility. International Symposium on Equine Reproduction. Pre-symposium clinical conference, Kerkede, The Netherlands.
- 2006 Equine seminal plasma proteins protect live spermatozoa from PMN-binding and phagocytosis, while providing a mechanism for selective sperm elimination of apoptotic and dead spermatozoa. 8th International Symposium on Equine Reproduction. Kerkede, The Netherlands.
- 2006 Equine Endometritis. AMMVEE, Monterrey, Mexico.
- 2006 Equine Placentitis: Diagnosis and therapy. AMMVEE, Monterrey, Mexico.
- 2006 Accidents of gestation. AMMVEE, Monterrey, Mexico.

- 2006 Mating-induced endometritis. Bluegrass Equine Reproduction Symposium, Lexington, KY.
- 2007 The role of seminal plasma in equine reproduction. 13th SIVE Congress, Bologna, Italy.
- 2007 Equine endometritis: Still an important problem in equine practice. 65. Diagnosis and treatment aspects of equine placentitis. . 13th SIVE Congress, Bologna, Italy.
- 2007 Clinical importance of sperm transport and elimination from the mares' reproductive tract. 13th SIVE Congress, Bologna, Italy.
- 2007 Infertility caused by ovarian abnormalities. 13th SIVE Congress, Bologna, Italy.
- 2007 How to manage placental retention. 13th SIVE Congress, Bologna, Italy.
- 2007 High Risk Pregnant Mare. 20th NKVet Symposium on perinatal Death in Domestic Animals. Reykjavik, Iceland.
- 2007 Pre-partum complications in pregnant mares. Proceedings of SVT Annual Conference, Uppsala, Sweden.
- 2007 Post-partum complications in mares. Proceedings of SVT Annual Conference. Uppsala, Sweden.
- 2007 Nitric oxide and nitric oxide synthase expression in the uterus of mares susceptible and resistant to persistent endometritis. 4th Leipzig Expert Workshop on Equine Reproduction Medicine. Leipzig, Germany.
- 2007 Persistent breeding-induced endometritis. 5th International Conference on Equine Reproduction Medicine. Leipzig, Germany.
- 2008 What is new in assisted reproductive techniques? Bluegrass Equine Reprod. Symposium, Lexington, KY.
- 2008 Endocrinology in the mare. Bluegrass Equine Reproduction Symposium, Lexington, KY.
- 2008 High risk pregnant mare. AMMVEE, Annual Conference, Puebla, Mexico.
- 2008 Diagnosis and treatment of high-risk pregnant mares. Symposium on Veterinary Reproduction in honor of Prof. B. van der Weijden and M. Taverne. Utrecht, The Netherlands.
- 2008 A specific seminal plasma protein regulates the interaction between PMNs and viable spermatozoa, but not non-viable spermatozoa or bacteria. Havemeyer Workshop on the Chronically Infertile Mare, Hilton Head Island, SC.
- 2008 Problems after breeding. West Coast Symposium on Equine Reproduction, Solvang, CA.
- 2009 Management of mares before and after breeding. The Voorjaarsdagen, Amsterdam, The Netherlands.
- 2009 Maxwell H. Gluck Equine Research Center. Southern Animal Health Association annual meeting, Lexington, KY.
- 2009 Breeding the problem mare. The Pyramide Society Breeders Conference Proceedings, Lexington, KY.
- 2009 Sexually transmitted diseases in the horse: What do we need to know? The Pyramide Society Breeders Conference Proceedings, Lexington, KY.
- 2010 Sperm transport and elimination from the mares' reproductive tract. 6th International Conference on Equine Reproductive Medicine. Leipzig, Germany.
- 2010 Is sperm transport and elimination a selective process or a random event? 5th Leipzig Workshop on Equine Reproduction, Leipzig, Germany.
- 2010 Mechanisms of Sperm Transport and Elimination. The Ohio State University, College of Veterinary Medicine. Columbus, OH.
- 2010 Sperm transport elimination and endometritis. SFT/ACT Annual Conference, Seattle, WI.
- 2010 Breeding-induced endometritis – What is new? SKIVE Equine Veterinary Resort Symposium.
- 2010 Bacterial endometritis. SKIVE Equine Veterinary Resort Symposium.
- 2010 Sperm transport and elimination. SKIVE Equine Veterinary Resort Symposium.
- 2010 Embryo transfer and cryopreservation of embryos. SKIVE Equine Veterinary Resort Symposium.
- 2010 Pre-implantation genetic testing – Practical applications for the horse owner. SKIVE Equine Veterinary Resort Symposium.
- 2010 High-risk pregnancies – Diagnosis, treatment and outcome. SKIVE Equine Veterinary Resort Symposium.
- 2010 Lessons learned from a recent outbreak of CEM in the US. SKIVE Equine Veterinary Resort Symposium.
- 2012 Breeding-induced endometritis: importance of cytokine expression. 7th International Conference on Equine Reproductive Medicine. Leipzig, Germany.
- 2012 Endometrial cytokine expression during induced endometritis in resistant and susceptible mares. 6th Leipzig Workshop on Equine Reproduction, Leipzig, Germany.
- 2012 Selective sperm transport in the equine reproductive tract. 31st Annual Symposium in Reproductive Science and Women's health. University of Kentucky.
- 2012 Equine Placentitis: What we know and what we don't know. Bluegrass Equine Symposium.
- 2012 Placentitis in the mare. Kentucky Veterinary Medical Association, annual meeting.

- 2012 Persistent Mating-Induced Endometritis: Diagnosis, treatment, and management. West Coast Equine Reproduction Symposium, CA.
- 2013 Equine Endometritis. Brazilian Association for Equine Practitioners, ABRAVEQ, Annual meeting, Campinas, Brazil.
- 2013 Placentitis. Brazilian Association for Equine Practitioners, ABRAVEQ, Annual meeting, Campinas, Brazil.
- 2013 Sperm transport in the equine reproductive tract. University of California, Davis.
- 2013 Uterine bacterial infections in the non-pregnant and pregnant mare. University of California, Davis.
- 2014 Endometritis in old mares. 8th International Conference on Equine Reproductive Medicine. Leipzig, Germany.
- 2014 Update on endometritis therapy. International Symposium on Equine Reproduction, Veterinarian Conference. Hamilton, New Zealand.
- 2014 Equine seminal plasma derived Lactoferrin regulates binding of PMNs to Spermatozoa. 11th International Symposium on Equine Reproduction, Hamilton, New Zealand.
- 2015 Breeding-induced endometritis: Physiology or pathology? Key-note address at the 48th Annual Conference on Physiology and Pathology of Reproduction and the 40th Joint Congress of Veterinary and Human Medicine. Zurich, Switzerland.
- 2015 Selective sperm transport in the female reproductive tract. International Conference on Biotechnology and Welfare in Animal Husbandry, Krakow, Poland.
- 2015 Leadership from my perspective as faculty member and Department Chair. Texas A&M CVM, College Station, TX.
- 2015 Our current understanding on the pathophysiology of equine endometritis. International Conference on Biology and Pathology of Reproduction in Domestic Animals. Gdansk, Poland.
- 2016 Placentitis in the mare. 9th International Conference on Equine Reproductive Medicine, Leipzig, Germany.
- 2016 Management of mares bred with frozen/thawed semen. Swedish Equine Breeders Association, Sigtuna, Sweden.
- 2016 Efficient breeding programs. Swedish Equine Breeders Association, Sigtuna, Sweden.
- 2016 Pathophysiology of Breeding-induced endometritis. International Workshop on Equine Endometritis, Qatar Foundation, Doha, Qatar.
- 2016 Treatment of endometritis. International Workshop on Equine Endometritis, Qatar Foundation, Doha, Qatar.
- 2016 Do hormone treatments of equine athletes affect their subsequent career in the breeding shed? ADLQ 6th Symposium: Anti-Doping in Humans and Animals – Parallels and Divergences. Doha, Qatar.
- 2017 The Arabian Horse. Qatar Natural History Association, Doha, Qatar.
- 2017 Equine Endometritis. 3rd International Conference on Endometritis in Cows and Mares: Endometritis as a Cause of Infertility in Domestic Animals. Olsztyn, Poland.
- 2017 Sperm Transport and Elimination in the Mare's Reproductive Tract. 3rd International Conference on Endometritis in Cows and Mares: Endometritis as a Cause of Infertility in Domestic Animals. Olsztyn, Poland.
- 2018 Non-antibiotic treatment of equine endometritis. 9th International Workshop on Equine Reproductive Medicine. Leipzig, Germany.
- 2019 Common ovarian abnormalities in mares. Qatar Foundation, Equine Reproduction and Neonatology Conference, Doha, Qatar
- 2019 Non-antibiotic treatment alternatives for equine endometritis. Qatar Foundation, Equine Reproduction and Neonatology Conference, Doha, Qatar.
- 2019 Large Animal Veterinary Medicine: Research Accomplishments, Challenges and Opportunities. University of Pennsylvania, College of Veterinary Medicine, New Bolton Center.
- 2019 Antibiotic use in Equine Reproduction. Hagyard's Bluegrass Equine Symposium, Lexington, KY. October 2019.
- 2020 The effect of immune modulation on uterine involution. 10th International Workshop on Equine Reproductive Medicine. Leipzig, Germany.
- 2020 Progesterin in studfarm practice. 11th International Conference on Equine Reproductive Medicine. Leipzig, Germany.
- 2020 Use of immune-modulators in the treatment of equine endometritis. Agilis Equine Webinar in Immunomodulation. November 2020.
- 2021 Optimizing diagnosis and treatment of equine placentitis. PDVet Virtual presentation and panel discussion.

- February 2021.
- 2021 Responsible use of antibiotics in equine practice: Strategies in human and veterinary medicine. Organizer and moderator of panel discussion. 67th Annual Conv. Am. Assoc. Eq. Pract., Nashville, TN. December 2021.
- 2022 Diagnostic and therapeutic value of progesterone/progestins during late gestation. ReproTraining Virtual Presentation and Panel discussion on "Progesterone – myths and medicine". February, 2022.
- 2022 Clinical advances in equine placentitis. University of Zurich, Switzerland, July 2022.
- 2022 Diagnostics and Therapy of Equine Placentitis. Freidrich Loeffler Institute for Animal Breeding and Genetics, Mariensee, Germany. July 2022.
- 2023 The impact of seminal plasma on the equine endometrial transcriptome, ISER XIII, Foz do Iguaçu, Brazil.
- 2024 Preliminary observation on the endometrial response to repeated infection with common uterine pathogens. 10th International Workshop on Equine Reproductive Medicine. Leipzig, Germany.
- 2024 Pathophysiology of equine endometritis. 12th International Conference on Equine Reproductive Medicine, Leipzig, Germany.
- 2024 Investigation of the Subfertile Mare. PDVet Virtual presentation and panel discussion. June 2024.
2024. Responsible use of Antibiotics in Equine Reproduction. 70th Annual Convention, Orlando FL.
2025. Seminal plasma (SP) exposure during breeding alters placental transcriptome and subsequent growth of foals. 8th International Symposium on Stallion Reproduction, Cordoba, Spain, February 2025.
- 2025 40 Years of Endometritis Research and Antimicrobial Resistance. West Coast Equine Symposium VII. Santa Barbara, CA. November 2025.

RESEARCH GRANTS

- 1987 Swedish Racing Board (ATG) Coinvestigator: A preliminary study of uterine polymorphonuclear neutrophil function in mares with chronic uterine infections. 30,000 Skr (\$5,000).
- 1988 Equine Research Laboratory, UCD. Coinvestigator: The assessment of myeloperoxidase release associated with degranulated PMNs in the uterus of mares potentially susceptible and resistant to chronic uterine infection. \$15,889.
- 1988 Swedish Racing Board (ATG) Principal investigator: Uterine defense mechanisms in mares susceptible and resistant to chronic uterine infections. 80,000 Skr (\$13,333).
- 1989 AGRIA Insurance Company, Sweden. Principal Investigator: Electromyography of the myometrium during early pregnancy in the mare. 30,000 Skr (\$5,000).
- 1989 Equine Research Laboratory, UCD. Coinvestigator: The assessment of myeloperoxidase release associated with degranulated PMNs in the uterus of mares potentially susceptible and resistant to chronic uterine infection II. \$28,899.
- 1989 Swedish Racing Board (ATG) Principal investigator: Uterine defense mechanisms in mares susceptible and resistant to chronic uterine infections. 120,000 Skr (\$20,000).
- 1990 Equine Research Laboratory, UCD. Coinvestigator: Electromyography of uterine activity in mares potentially resistant or susceptible to chronic uterine infections. Part I. \$30,869.
- 1991 Equine Research Laboratory, Coinvestigator: Electromyography of uterine activity in mares potentially resistant or susceptible to chronic uterine infections. Part II. \$30,609.
- 1992 Veterinary Medical Teaching Hospital, UCD. Resident Research Fund, Principal Investigator: Development of a technique for videohysteroscopy in the mare. \$2,000.
- 1992 AGRIA Insurance Company, Principal investigator: The effect of sperm cells on inducing an inflammatory response in the uterus in the mare. \$2,166.
- 1993 Equine Research Laboratory, UCD. Principal Investigator: Pharmacological effects of oxytocin and prostaglandin F2a on oviductal and myometrial electrical activity in the mare. \$8,647.
- 1993 Equine Research Laboratory, UCD. Principal Investigator: Quantitative analysis of prostaglandins in equine seminal plasma. \$1,401.
- 1994 21st Century Genetics, Principal Investigator: Uterine inflammatory response to semen in the cow. \$9,000.
- 1995 University of Minnesota, USDA Formula Fund, Principal Investigator: Spermatozoa surface proteins and seminal plasma proteins in modulating post-mating endometritis and fertility. \$50,000
- 1995 University of Minnesota, Undergraduate Research Opportunity Program. Supervisor and co-PI. Effect of semen on equine PMN-chemotaxis in vitro. \$1,000.

- 1996 Minnesota Racing Commission. Principal investigator: The importance of social interaction with a stallion on oxytocin release and uterine contractility. \$10,450.
- 1996 University of Minnesota Graduate School, Grant in Aid. Principal investigator: Dose-dependent effect of oxytocin on the myometrium of the mare. \$21,740.
- 1996 AGRIA Insurance Company, Principal investigator: Early diagnostics and treatment of placentitis to prevent abortion in the mare: A clinical field study. 30,000 Skr (\$3,872).
- 1996 Swedish Racing Board (ATG) Co-PI: Transmission of EVA-virus via frozen, cooled transported and fresh semen from a chronically infected stallion. 90,000 Skr (\$11,616).
- 1996 Minnesota Pork Producers, Co-investigator: The effect of insemination on uterine inflammation during estrus and metestrus in swine. \$12,713.
- 1996 University of Minnesota, Undergraduate Research Opportunity. Supervisor and co-PI. Assessment of Glasswool and Sephadex filtration in trapping capacitated stallion spermatozoa. \$1,000.
- 1996 University of Minnesota, Undergraduate Research Opportunity. Supervisor and co-PI. Male reproductive tract secretion as inhibitors of complement induced cytolysis in horses. \$1,000.
- 1997 University of Minnesota Graduate School, Grant in Aid. Co-PI: Equine conceptus prostaglandin inhibitor factor. \$17,750.
- 1997 Minnesota Equine Research Center. Principal investigator: Regulation of prostaglandin F₂ α in the equine uterus: Importance for maternal recognition of pregnancy and during the estrous cycle. \$6,510.
- 1997 Minnesota Equine Research Center. Co-PI: Antifertility Hormone in Mares. \$6,000.
- 1997 Minnesota Pork Producers Association. Co-PI: AI in swine: The effect of sperm and seminal plasma on uterine post-breeding inflammation. \$15,000.
- 1998 Minnesota Equine Research Center. The role of seminal plasma in the regulation of breeding-induced endometritis. PI: \$ 18,547.
- 1998 Minnesota Equine Research Center. Co-PI: Development of a clinical inhibin assay for detection of granulosa-thecal cell tumors in the mare. \$ 6,000.
- 1998 Minnesota Equine Research Center. Co-PI: The effect of persistent endometritis on embryo viability. \$6,000.
- 1998 Minnesota Pork Producers Association. Co-PI: The mechanism of post-breeding inflammation in swine. \$15,000.
- 1998 Minnesota Racing Commission. PI: Minnesota Equine Research Center. \$40,000.
- 1998 Undergraduate Research Opportunities Program. Advisor. Cryopreservation of equine semen during the non-breeding season: The effect of exogenous GnRH. \$300.
- 1998 Undergraduate Research Opportunities Program. Advisor. The effect of periovulatory treatment of mares with PGF₂ α on pregnancy rates and luteal function. \$1,300.
- 1999 American Quarter Horse Association. PI: The role of components of seminal plasma in modulating post-breeding endometritis and fertility. \$42,770.
- 1999 Minnesota Racing Commission. PI: Minnesota Equine Research Center. \$45,000.
- 1999 Minnesota Equine Research Center. PI: Regulation of PGF₂ α in the equine uterus: The role of phospholipase A2 in luteolysis and maternal recognition of pregnancy. \$19,289.
- 1999 Minnesota Equine Research Center. PI: The effect of periovulatory treatment with PGF₂ α on pregnancy rates and luteal function. \$9,956.40.
- 1999 University of Minnesota Academic Health Center. Faculty Research Development Program. Co-PI: Advances in gamete cryopreservation and assisted reproduction. \$199,650.
- 2000 Minnesota Equine Research Center. PI: Concentration of Nitric Oxide in uterine secretion from mares susceptible and resistant to chronic post -breeding endometritis. \$19,712.80
- 2000 Minnesota Equine Research Center. PI: The importance of osmotic pressure for the viability and quality of fresh and frozen/thawed spermatozoa. \$4,486.
- 2000 Minnesota Racing Commission. PI: Minnesota Equine Research Center. \$45,000
- 2001 Minnesota Equine Research Center. PI: P-selectin Mediated Binding Between Equine Spermatozoa and Polymorphonuclear Neutrophils. \$10,700.
- 2001 Minnesota Equine Research Center. Co-PI: Sperm surface markers for fertility and subfertility in stallions. 20,000.
- 2002 Minnesota Racing Commission. PI: University of Minnesota Equine Center (research). \$60,000.
- 2002 Minnesota Equine Research Center. PI: Localization and determination of nitric oxide synthase isoforms in uterine biopsies from mares susceptible and resistant to post-breeding endometritis. \$5,640

- 2002 Minnesota Equine Research Center. Co-PI: Preliminary isolation of multipotent bone marrow-derived stem cells from adult horses. \$20,000.
- 2002 Minnesota Equine Research Center. Co-PI: Characterization of Crisp-1 and SP22 in stallion sperm; correlation of specific sperm function marker molecules to fertility status in stallions. \$10,000.
- 2002 Resident Intramural Competitive Grants Program. Faculty adviser: Critical concentration of seminal plasma needed to prevent binding of spermatozoa to neutrophils in an inflamed uterine environment. \$2,000.
- 2003 University of Florida Research Opportunity Fund Program. PI: Pre-implantation Genetic Diagnostic Screening of Bovine and Equine Embryos Prior to Embryo Transfer. \$98,232.
- 2003 Florida Pari-mutuel Wagering Trust Funds. Co-PI. Sperm Protein 22 kDa (SP22): A Potential Marker for Fertility in Stallions \$32,135.
- 2003 University of Florida, CVM Fall Consolidated Faculty Research Development Award Grant competition. PI. Does seminal plasma selectively protect viable spermatozoa from being phagocytosed by polymorphonuclear neutrophils? \$7,500.
- 2003 Resident Intramural Competitive Grants Program. Faculty adviser: Hormone concentrations in captive male rhinoceros: Seasonal, age, and sociosexual variations. \$2,000
- 2004 Florida Pari-mutuel Wagering Trust Funds. PI. Investigation on the mechanisms of breeding-induced endometritis. \$31,825.
- 2004 Resident Intramural Competitive Grants Program. Faculty adviser. The Effects of Hyaluronidase on Oocyte Recovery Using Transvaginal Ultrasound Guided Oocyte Aspiration in Mares. \$2,000.
- 2004 Grayson-Jockey Club Foundation. Co-PI. Treatment efficacy on pregnancy outcome in equine placentitis. \$70,455.
- 2005 Florida Pari-mutuel Wagering Trust Funds. PI. Identification of seminal plasma proteins with a regulatory role on binding between spermatozoa and PMNs. \$34,758.
- 2005 Florida Pari-mutuel Wagering Trust Funds. Co-PI. Cryopreservation of equine embryos. \$26,273.
- 2006 Florida pari-mutuel Wagering Trust Funds. PI. Identification and Characterization of Specific Seminal Plasma Proteins Involved in Selective Sperm Elimination from the Uterus. \$40,772.
- 2006 Florida pari-mutuel Wagering Trust Funds. Co-PI. Effect of pentoxifylline treatment on testicular perfusion and sperm production in stallions. \$35,085.
- 2007 University of Florida, College of Veterinary Medicine. PI. Expression of the ISG15 system in the equine endometrium during early pregnancy. \$2,000.
- 2007 Grayson-Jockey Club Foundation. Co-PI. Gene expression profile in equine endometrium. \$27,500
- 2007 Grayson-Jockey Club Foundation. PI. Seminal plasma proteins SPP α and SPP β in equine semen. \$77,718.
- 2009 University of Kentucky, Koller research funds for emerging diseases. PI. Study on the transmission of *Taylorella equigenitalis* through artificial insemination with semen from infected stallions. \$37,000.
- 2009 University of Copenhagen Joint Proof of Concept Fund. Co-PI. Inflammation Assisted Diagnostics of Equine Endometritis. \$275,260.
- 2009 Morris Animal Foundation/ Pfizer Animal Health Veterinary Fellowship. PI. \$160,000
- 2010 University of Florida Competitive research grants. Co-PI. Effects of treatment with a high dose of oral dexamethasone solution on testicular function in miniature horse stallions. \$7,500.
- 2010 Kentucky Equine Drug and Racing Commission. Co-PI. Estrus suppression in the mare. \$48,092.
- 2010 Bioniche Animal Health. Co-PI. Use of eFSH to increase eCG production in mares. \$8,000.
- 2010 Preservation of Equine Genetics Program. Colorado State University. Co-PI. Fertility of mares inseminated with frozen/thawed semen centrifuged through a single layer density gradient. \$36,225.
- 2011 Dogwood Foundation. Co-PI. Using genetic technology to determine the fertility of stallion semen. \$25,000.
- 2011 Aspen Biopharma. Co-PI. \$75,000 (\$23,000 to UK). Induction of ovulation in seasonally anestrous mares.
- 2011 Kentucky Thoroughbred Association. PI. Equine Placentitis. \$83,612.
- 2012 USDA. Co-PI. Identification of genetic factors responsible for establishment of equine arteritis virus carrier state in stallions. PI: U. Balasuriya. \$2,925,000. 2013-2017.
- 2013 Kentucky Thoroughbred Owners and Breeders Association. PI. New diagnostics to monitor placental health and to screen pregnant mares for placentitis. \$84,117.
- 2013 University of Florida, Fall Research Competition. Collaborator. Effects of topical application of misoprostol on cervical relaxation in mares. PI: M. Pozor. 2013-2014. \$4,900.
- 2014 Alltech. Co-PI. Effect of feeding DHA on sperm motion characteristics, sperm viability and fatty acid composition of stallion sperm. PI: E. Squires. 2014-2015. \$83,272.

- 2014 Zoetis. PI. Research Fellowship. 2014-2018. \$165,000
- 2019 LMU student project. PI. The effect of intravenous IgG on the immune system of mares. \$15,000
- 2020 Grayson Jockey Club Research Foundation. PI. Protein based *in vivo* diagnostics for endometrial biofilms. \$48,145.
- 2020 LMU student project. PI. T-cell related cytokines in equine placentitis. \$15,000
- 2020 Norwegian Research Foundation. Collaborator. Norwegian Marine Biopolymers as Injectable Hydrogels for Tissue and Organ Repair – TUNIGUIDE. PI: E. Thompson. 2021-23. \$1,250,000 (\$105,545 to veterinary medicine).
- 2021 LMU student project. PI: In vivo diagnosis of endometrial bacterial biofilm. \$15,000
- 2021 LMU student project. PI: The role of seminal plasma in the maternal immune response to early pregnancy in mares. \$15,000
- 2022 LMU student project. PI: The effect of mycobacterium cell wall fraction (MCWF) on the degradation of endometrial cups. \$15,000
- 2022 LMU student project. PI: Investigation on equine endometrial fibrosis. \$15,000.
- 2023 LMU-CVM Research Grants. Co-PI (PI: LMJ Miller). Novel biomarkers for early diagnosis and prognosis of endometrial fibrosis. \$34,800.
- 2023 LMU student project. PI: In vivo diagnostics of endometrial bacterial biofilms. \$15,000.
- 2024 Koller Priority Response Funds, University of Kentucky. PI. Placentitis Diagnostic Panel – A Pilot Study. \$11,915.
- 2024 LMU-CVM Research Grants. Co-PI (PI: Lynda Miller). Proteomics and Lipidomics of Equine Endometrial Bacterial Biofilm. \$32,000.
- 2024 LMU-CVM Research Mini-Grants. Co-PI (PI: Lynda Miller). Replacing antibiotics with probiotics in equine semen extender. \$12,500.
- 2025 USDA-AFRI-NIFA Seed grant A12111. Co-PI (PI: Hossam EAG Elsayed). Is Chorionic Gonadotropin Beta Subunit the Elusive Signal of Equine Maternal Recognition of Pregnancy? \$299,998.
- 2025 LMU-CVM Research Grants. Co-PI (PI: Lynda Miller). Exploring Probiotics as an Alternative to Antibiotics in Semen Extenders. \$24,310.
- 2025 LMU-CVM Research Grants. Co-PI (PI: Hossam El-Sheikh Ali). The First Isoform-Resolved Catalog of Transcriptional Changes in Equine Chorioallantois during Pregnancy and Placentitis. \$49,544.
- 2025 LMU student project. PI. Probiotics in semen extenders. \$15,000.
- 2025 LMU student project. PI. Fertility test of semen stored in probiotic containing extenders. \$15,000.

UNRESTRICTED GIFTS

- 2013 MOFA International Center of Biotechnology \$20,000
- 2019 NovaVive Pharmaceuticals \$23,680
- 2021 Hans Gude Gudesen \$8,687
- 2021 NovaVive Pharmaceuticals. \$35,000
- 2022 NovaVive Pharmaceuticals. \$15,000