MATS H.T. TROEDSSON

Maxwell H. Gluck Equine Research Center

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**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

- Top 2% of the world’s most cited researchers 2022, 2023, and lifetime achievements (Elsevier and Stanford University)

- Editorial Board for Animals, 2020-2024.

- 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 Medcical 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- )

**Editorial Board Member** Animals (2020 -)

**Associate Editor** Frontier in Veterinary Medicine (2021 -)

**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*

**Program Advisory Committee Board Member**: August 2019 - present

*Kentucky Horseshoeing School, Richmond, KY*

**Consultant on Veterinary Research and Development:** 2019 - 2022

*Ocean M AB (Hans Gude Gudesen), Norway/ Switzerland*

**ADMINISTRTIVE 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 quadroubled 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 Certificed 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**

Advisor: Degree, year Employment

Scott Madill PhD *Professor, College of Veterinary Medicine,*

*University of Minnesota*

Mohammad Ababneh PhD, 1999 *Professor at University of Jordan*

Kevin Rozeboom MS, 1997; PhD, 1999 *Assistant Professor, North Carolina State*

*University; Private business owner*

Abdorrahman S. Alghamdi MS, 1998; PhD, 2004 *Associate Professor at*

*University of Minnesota, Crookston*

Justin Hayna PhD *Assistant Professor at Purdue University,*

*College of Veterinary Medicine*

Andria Desvouges PhD, 2013 *Head of Flow Cytometrty unit*

*University of Florida Core Biomed. Lab;*

*Senior Scientist, Parse Biosciences*

Lynda Miller PhD, 2010 *Associate Professor at CVM,*

*Lincoln Memorial University*

Claudia Klein PhD, 2011 *Professor, University of Hanover,*

*Head of the Freidrich Loeffler Institute*

*of Farm Animal Genetics, German and*

Elisabeth Woodward PhD, 2012 *Associate Professor, School of Vet. Med.*

*University of Pennsylvania*

Mette Christoffersen Co-advisor PhD, 2012 *Associate Professor at*

(University of Copenhagen) *University of Copenhagen*

*School of Veterinary Medicine*

Carleigh Fedorka PhD, 2017 *Assistant Professor, Colorado State Univ.*

Natacha Muderspach Co-advisor PhD, projected 2024

(University of Copenhagen)

Gonzalo Rocha-Chavez MS, 1999 *Academia in Mexico*

Rodrigo Velasco MS, transfer to UCD 2004

Bruce Christensen MS, 2007 *Assistant Professor at Universirty of Iowa;*

*University of California, Davis, School of*

*Veterinary Medicine; Specialized private practice*

Meghan Connor MS, 2009 *Veterinary private practice*

Gabriella Toro Co-advisor MS, 2015 *Academia and private practice in Equador*

Juliana Campos Co-advisor MS, 2012 *Freelance in Miami, FL*

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)

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**

Name Year Employment

Choung‑soep Lee 1997-1998 *Clinical practice in South Korea*

Ahmad Ijaz 2001 - 2002

Claudia Klein 2011-2012 *Head of the Freidrich Loeffler Institute of Farm*

*Animal Breeding and Gentics,*

*Professor, University of Hanover*

Ammar Ali 2011 – 2012 *Assistant Clinical Professor at*

*University of California, San Diego*

Elizabeth Woodward 2012 – 2014 *Assistant Professor, School of Veterinary Medicine*

*University of Pennsylvania*

Stephanie Preston 2013 – 2014 *Freelance, Animal Wellfare*

Carleigh Fedorka 2020 – 2022 *Assistant Professor, Colorado State University*

**RESIDENT FELLOW ADVISOR**

Nicholas Carney UC Davis

Jeanne Bowers UC Davis

Hugh Gibbs UC Davis

Catherine Renaudin UC Davis

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 Peugnet France, 2010

Pauline Bignon France, 2011

Bethany Houghton Canada, 2013

**Al Shaqab, Qatar Foundation**

Dr. Muneera Al-Fadala Qatar, 2018

**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, Turley, 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 Veterinery 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

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

**UNDERGRADUATE STUDENT RESEARCH ADVISOR**

Brenda SteiglerUniversity 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 the Study of Reproduction

Society for Theriogenology

American College of Theriogenologists

European College of Animal Reproduction

American Association of Equine Practitioners

Kentucky Association of Equine Practitioners

International Embryo Transfer Society

Swedish Veterinary Association

Swedish Society for Veterinarians at Scientific Institutions

American Association for Advancement of Science (AAAS)

Gamma Sigma Delta

Sigma Xi

**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 Welcome Trust, United Kingdom

University of Veterinary Medicine, Vienna, Austria

Morris Animal Foundation

USDA

b. Scientific Journals: Agriculture

American Journal of Veterinary Research

American Journal of Reproductive Immunology

American Journal of Obstetrics and Gynecology

Animals

Animal Biotechnology

Animal Reproduction Science

Antioxidants

Australian Veterinary Journal

Biology of Reproduction

BMC Veterinary Research

Computational and Structrural 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

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 Zeeland 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)

Audrey Kelleman – University of Florida (2021)

Ulrich Bleul – University of Zurich, Switzerland (2023)

Abdulhakeem Hashim Hussein Eljarah – Jordan University of Science and Technology (2023)

**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, PGF2a 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.

20.\* Barber, J.A. and **Troedsson, M.H.T.** (1996) Mummified fetus in a mare. J. Am. Vet. Med. Assoc. 208(9):1438‑1440.

21.\* Barber, J.A., Farris, J.A., **Troedsson, M.H.T.**, Crabo, B.G. and Foster, D.N. (1996) Nucleotide sequence of the complementary DNA encoding equine clusterin. Anim. Biotechnol. 7(2):113‑123.

22. Bravo, P.W., Bazan, P., **Troedsson, M.H.T.**, Villata, M.S. and Garniza, J. (1996) Induction of parturition and neonate survival in the alpaca. J. Am. Vet. Med. Assoc. 209:1760-1762.

23.\* Renaudin, C.D., **Troedsson, M.H.T.**, Gillis, C., King, V.L., and Bodena, A. (1997) Ultrasonographic evaluation of the equine placenta by transrectal and transabdominal approach in the normal pregnant mare. Theriogenology 47(2):559‑573.

24. **Troedsson, M.H.T.**, Renaudin, C.D., Zent, W.W., and Steiner, J.V. (1997) Transrectal ultrasonography of the placenta in normal mares and mares with pending abortion: A field study. Proceedings of the American Association of Equine Practitioners 43:256-258.

25.\* Rozeboom, K.J., **Troedsson, M.H.T.**, Shurson, G.C., Hawton, J.D., and Crabo, B.G. (1997) Late estrus or metestrus insemination subsequent to estrual inseminations decreased farrowing rate and litter size in swine. J. Anim. Sci. 75:2323‑2327.

26. **Troedsson M.H.T.** (1997) Therapeutic considerations for mating‑induced endometritis. Pferdeheilkunde 13(5):516‑520.

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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.

1. **Troedsson, M.H.T.** (2000). Management of mares with placentitis. American Hanoverian Magazine.
2. **Troedsson, M.H.T.** (2001) From the Director. Minnesota Equine Research Center Newsletter 1(1):1.
3. **Troedsson, M.H.T.** (2001) The role of seminal plasma in the regulation of breeding-induced endometritis. 1:5.
4. **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.

1. 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.
2. **Troedsson, M.H.T.** (2003) Manipulation of the estrous cycle. Proceedings: Ocala Equine Conference.
3. **Troedsson, M.H.T.** (2003) Present and future assisted reproductive technologies. Proceedings: Ocala Equine Conference.
4. **Troedsson, M.H.T.** (2004) Breeding Management of the Mare. Breeding Management Short Course, University of Florida.
5. **Troedsson, M.H.T.** (2004) Common Fertility Problems. Breeding Management Short Course, University of Florida.
6. **Troedsson, M.H.T.** (2005)The role of specific seminal plasma components in breeding-induced endometritis. SBS annual meeting.
7. **Troedsson, M.H.T.** (2006) Management of High-Risk pregnancies. KWPN of North America Newsletter.
8. **Troedsson, M.H.T.** (2006) Management of Problem Breeders. KWPN of North America Newsletter.
9. **Troedsson M.H.T.** and Macpherson, M.L. (2007) Diagnostico y tratamiento de la placentitis equine. Revision Medica Equina 1:23-32.
10. **Troedsson, M.**H.T., Macpherson, M.L. (2007) Breeding management of mares with sick foals. Proc. Referring Veterinarian Appreciation Day at the Univeristy of Florida.
11. **Troedsson, M.H.T.** (2009) Reproductive technologies for the stallion. Proc. Kentucky Breeders Seminar, pp. 7-10.

**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.

1. **Troedsson, M.H.T.** (2009) Cryopreservation of equine embryos with the Equine Embryo Direct Transfer (dt) Vitrification Kit. Sperm notes.
2. Macpherson, M.L., King, A., **Troedsson, M.H.T.** (2011) Assisted Reprosuctive Techniques for the performance mare. FAEP - The Practitioner. 6:12-16.
3. **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.
4. **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>
5. 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.
6. **Troedsson, M.H.T.** (2019) Changing trends in Equine Reproduction. Equine Disease Quarterly 28(3);3-4.
7. **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 assited 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 interdiciplinary 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.** Cryporeservation 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 Convension, 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 **Troedssson, 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 Univeristy 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 **Troedssson, 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 withy 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, Oltszyn, Poland (2 hours lecture for equine veterinarians)

2015 **Troedsson, M.H.T.** Equine Placentitis. Oltszyn Veterinary School, Oltszyn, Poland (1 hour lecture for equine veterinarians)

2015 **Troedsson, M.H.T.** Breeding Soundness Examination of the Mare. (Oltszyn Veterinary School, Oltszyn, 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., Rehbinder, 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 Reproduction, Caxambu, Brazil.

1996\* Ibrahim, N.M., Farris, J.A., Loseth, K.J., **Troedsson, M.H.T**., Foster, D.N., and Crabo, B.G. Immunochemical characterization of clusterin from reproductive tract secretions and spermatozoa of the bull. Ann. Meeting Am. Diary Sc. Assoc., Corvallis, OR.

1997\* Madill, S, **Troedsson, M.H.T.**, Santschi, E.M. Individual registration of longitudinal and circular muscle in the equine myometritum 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.

1997 **Troedsson, M.H.T**., Zent, W.W., Renaudin, C. The use of transrectal ultrasonographic evaluation of the equine placenta. Swedish University of Agricultural Sciences, Uppsala, Sweden.

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.

1997\* Rozeboom, K.J., **Troedsson, M.H.T**., Shurson, G.C., and Crabo, B.G. AI in swine: Timing of insemination and post‑mating uterine inflammation. Al Lehman swine conference, St. Paul, MN.

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.

1998 Zent, W.W., **Troedsson, M.H.T**., and Xue, J‑L. Post‑breeding uterine fluid in a normal population of Thoroughbred mares. 44th Annual Convention of the American Association of Eqine Practitioners, Baltimore, MA.

1999\* Ababneh, M.M. and **Troedsson, M.H.**T. Regulation of endometrial PGF2α secretion in horses. Society of Theriogenology Annual Meeting, Nashville, TN.

2000\* Ibrahim, N, Loseth, K, Romano, J, Crabo, B, and **Troedsson, M**. Effect of scrotal insulation on sperm and seminal clusterin in rams and its relationship to semen quality. International Conference on Animal Reproduction, Stockholm, Sweden.

2000\* Rozeboom, K.J., Rocha-Chavez, G., and **Troedsson, M.H.T**. Neutrophil chemotactic properties of porcine seminal components. International Conference on Animal Reproduction, Stockholm, Sweden.

2000\* Bailey, M.T., Christman, S.A., **Troedsson, M.H.T**., Ababneh, M.M., and Wheaton, J.E. Inhibin production and secretion by granulosa-theca cell tumors in mares. Am. Soc. An. Sci., Midwest section, Des Moines, IA.

2000\* Bailey, M.T., Wheaton, J.E., **Troedsson, M.H.T**., and Liu, I.K.M. Inhibin, gonadotropins, and testosterone

in mares with granulosa-theca cell tumors (GTCT). SSR, Madison, WI.

2000 Santschi, E.M. and **Troedsson, M.H.T.** Bilateral ovariectomy via two paramedian incision. American College of Veterinary Surgeons.

2000\* Rocha-Chavez, G., **Troedsson, M.H.T**., and Rozeboom, K.J. Boar seminal plasma regulates neutrophil chemotaxis and sperm cell phagocytosis after mating the sow (In vitro studies). Proc. Int. Pig Vet. Soc. Meeting, Melbourne, Australia.

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.

2002 Devireddy, R.V., Swanlund, D.J., Alghamdi, A.S., **Troedsson, M.H.T**., Bischof, J.C., and Roberts, K.P. The effect of collection and cooling conditions on water transport characteristics of equine spermatozoa. Theriogenology, 58:233-236. 8th International Symposium on Equine Reproduction.

2002\* Alghamdi, A.S. and **Troedsson, M.H.T**. Concentration of nitric oxide in uterine secretion from mares susceptible and resistant to chronic post-breeding endometritis. 8th International Symposium on Equine Reproduction.

2002\* Madill, S., **Troedsson, M.H.T**., Santschi, E.M., and Malone, E.D. Dose-response effect of intramuscular oxytocin treatment on myometrial contraction of reproductively normal mares during estrus. 8th International Symposium on Equine Reproduction.

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.

2004\* Miller, L.M.J., **Troedsson, M.H.T**., Klinefelter G.R., and Roberts K.P. Immunocytochemical detection and localization of sperm protein 22 (sp22) in fresh and cryopreserved equine semen. International Congress on Animal Reproduction, Porto Seguro, Brazil.

2004\* Wells, B.A., Miller, L.M.J., Kleinfelter, G.R., Roberts, K.P., and **Troedsson, M.H.T.** Immunohistological evaluation of sperm protein 22 (SP22) in fresh and frozen/thawed stallion semen. McNair scholarship seminar, University of Florida.

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.

2004\* Christenson, B.W., **Troedsson, M.H.T**., Oliva, M, Hernandez, J, Macpherson, M, Pozor, M, and Penfold, L. Influences of age, time of the year, and female presence on serum testosterone concentration in captive black rhinoceros (*Diceros bicornis*). 5th International Symposium on Physiology, Behavior and Conservation in Wildlife. Berlin, Germany.

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.

2004\* Christenson, B.W., **Troedsson, M.H.T.**, Oliva, M, Hernandez, J, Macpherson, M, Pozor, M, and Penfold, L. Exogenous influences on serum testosterone concentration in captive black rhinoceros (*Diceros bicornis*). AAZV Annual Conference.

2005\* Hayna, J., **Troedsson, M.H.T.** Non-pharmacological induction of luteal tissue in mares. University of Florida Research Emphasis Day.

2005\* Miller, L.M., **Troedsson, M.H.T**. Expression and localization of sperm protein 22 kDa in stallions. University of Floirda Research Emphasis Day.

2005\* Desvousges, A.L., Dow, C., Buhi, W.C., Hayna, J., and **Troedsson, M.H.T**. Selective role of seminal plasma in the modulation of PMN-binding and phagocytosis of live, heat stressed, and non-viable equine spermatozoa. Society for the Study of Reproduction, Quebeq City, Canada.

2005\* Miller, L.M., Kleinfelter, G.R., Roberts, K.P., and **Troedsson, M.H.T.** Effects of cryopreservation and extenders on the expression and localization of sperm protein at 22 kDa (SP22) on equine spermatozoa. Society for Theriogenology, Charleston, SC

2005\* Desvouges, 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

2005\* Hayna, J., Richmond, P., Desvousges, A.D., and **Troedsson, M.H.T.** The effect of short-term cooling prior to cryopreservation on motility and morphology of equine spermatozoa. Society for Theriogenology, Charleston, SC

2005 Macpherson, M.L., **Troedsson, M.H.T.** Diagnosis and treatment of equine placentitis. South African Pract. Assoc. Drakensburg, South Africa.

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.

2006\* Graczyk, J., Macpherson, M.L., Pozor, M.A., **Troedsson, M.H.T.**, Eichelberger, A.C., LeBlanc, M.M., and Vickroy, T.W. Treatment Efficacy of Trimethoprim Sulfamethoxazole and Pentoxifylline in Equine Placentitis. 8th International Symposium on Equine Reproduction, Kerkede, The Netherlands.

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\* Desvousges, 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 placentis. 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 Kentycky, 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 pused-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 haptoglobulin 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, IF., Ball, BA., 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 markersin 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 ForTheriogenology 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. Kalbfleich, 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 susceptinble to persitent 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 Congres 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 persitient 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 regulkatory 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\* 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 persisitent 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.​

\* 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.

2000The role of seminal plasma in the modulation of breeding induced endometritis. International Seminar SIVE, Cremona, SIVE.

2000Diagnostics and management of mares with placentitis. International Seminar SIVE, Cremona, SIVE.

2000Diagnostics 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

1. 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.

1. 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.

1. 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.

1. 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 an 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.

1. 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.

1. Mating-induced endometritis. Bluegrass Equine Reprodcution 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.

2009Sexually 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, Campinos, Brazil.

2013 Placentitis. Brazilian Association for Equine Practitioners, ABRAVEQ, Annual meeting, Campinos, Brazil.

2013 Sperm transport in the equine reproductive tract. University of Claifornia, Davis.

2013 Uterine bacterial infections in the non-pregnant and pregnant mare. Univeristy 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 Zeeland.

2014 Equine seminal plasma derived Lactoferrin regulates binding of PMNs to Spermatozoa. 11th International Symposium on Equine Reproduction, Hamilton, New Zeeland.

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 Wellfare in Animal Husbandry, Krakow, Poland.

2015 Leadership from my perspective as faculty member and Deaprtment 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 athleted affect their subsequent career in the breeding shed? ADLQ 6th Symposium: Anti-Doping in Humans and Animals – Parallells 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. Hagyards 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 Progestin 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.

**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 F2α 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.

1. 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 PGF2α 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 PGF2α in the equine uterus: The role of phospholipase A2 in luteolysis and maternal recognition of pregnancy. $19,289.

1. Minnesota Equine Research Center. PI: The effect of periovulatory treatment with PGF2α 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.

2002Minnesota 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.

* 1. 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 SPPα and SPPβ 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.

2023 American Quarter Horse Foundation. PI. An investigation on endometrial biofilm specific proteins: Potential use for in vivo diagnostics. $18,800 (pending).

2023 American Quarter Horse Foundation. Co-PI (PI: CE Fedorka). The impact of assisted reproductive techniques on immunotolerance of the developing fetus. $57,708 (pending).

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.

**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