

Curriculum vitae

Ina Dobrinski

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Center for Animal Transgenesis and Germ Cell Research
New Bolton Center, School of Veterinary Medicine
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Education:

1998	License to Practice Veterinary Medicine in Pennsylvania
1998	ECFVG Certificate, American Veterinary Medical Association
1997	Ph.D., New York State College of Veterinary Medicine Cornell University, Ithaca, NY
1997	Certificate of Qualification, Canadian Veterinary Medical Association
1993	Diplomate, American College of Theriogenologists
1993	Master of Veterinary Science, Western College of Veterinary Medicine University of Saskatchewan, Saskatoon, SK., Canada
1992	National Board Exams, Part A and B
1989	Doctor medicinae veterinariae, magna cum laude Hannover College of Veterinary Medicine, Hannover, Germany
1987	Graduate Veterinarian, Hannover College of Veterinary Medicine Hannover, Germany

Honours and Awards:

1984 - 1987	German National Scholarship Foundation, scholarship award
1987 - 1989	German National Scholarship Foundation, graduate scholarship award
1993	Rogar/STB graduate fellowship award Saskatchewan Health Services Utilisation and Research Commission, research fellowship award
1993	Medical Research Council of Canada, fellowship award
1995	First Place Award, Graduate Student Research Competition, International

	Embryo Transfer Society
1997	Burroughs Welcome Travel Fellowship
1999	Travel Grant #R13 HD37271, NIH
2004	Pfizer Award for Research Excellence
2006	Program Chair, Annual Meeting of the International Embryo Transfer Society
2006	Animal Molecular and Cellular Biology (AMCB) Distinguished Lectureship, University of Florida, Gainesville
2008	Session Chair, Minisymposium, 41 st SSR Annual Meeting
2008	Theriogenologist of the Year, American College of Theriogenologists

Employment:

5/05 – present	The Marion Dilly and David George Jones Chair in Animal Reproduction
5/05 – present	Visiting Professor, Inner Mongolia University, Huhhot, Inner Mongolia, China
7/04 – present	Director, Center for Animal Transgenesis and Germ Cell Research, School of Veterinary Medicine, University of Pennsylvania, Kennett Square, PA
7/08 – present	Professor of Large Animal Reproduction, School of Veterinary Medicine, New Bolton Center, University of Pennsylvania, Kennett Square, PA
7/03 – 7/08	Associate Professor (with tenure) of Large Animal Reproduction, School of Veterinary Medicine, New Bolton Center, University of Pennsylvania, Kennett Square, PA
7/97 - 6/03	Assistant Professor of Large Animal Reproduction, School of Veterinary Medicine, New Bolton Center, University of Pennsylvania, Kennett Square, PA
3/97 - 7/97	Research Associate in Animal Biology, School of Veterinary Medicine, University of Pennsylvania, Philadelphia, PA
1993 - 1997	Graduate Research Assistant, New York State College of Veterinary Medicine, Cornell University, Ithaca NY
1991 - 1993	Resident in Theriogenology, Graduate Student, Western College of Veterinary Medicine, University of Saskatchewan, Saskatoon, SK., Canada
1989 - 1991	Resident in Bovine Obstetrics and Gynecology, Hannover College of Veterinary Medicine, Hannover, Germany
1987 - 1989	Graduate Student in Animal Reproduction, Hannover College of Veterinary Medicine, Hannover, Germany

Membership in Professional Organisations and Societies:

American Veterinary Medical Association
American College of Theriogenologists
American Association of Equine Practitioners
Society for Theriogenology
International Embryo Transfer Society
Society for the Study of Reproduction
American Association for the Advancement of Science
American Society for Andrology
Society for Toxicology
American Society for Reproductive Immunology
International Society for Stem Cell Research

Grant support:

USDA Formula Funds: Xenogeneic Spermatogonial Transplantation for the Modification of the Male Germ Line, 10-1-98 to 9-30-99, \$8,000, principal investigator.

University of Pennsylvania Research Foundation: Transplantation of Porcine Germ Cells into Mouse Testes, 2-1-99 to 2-1-2000, \$31,500, principal investigator.

USDA/CSREES/NRICGP (99-35205-8620): Germ Line Modification in Farm Animals through Xenogeneic Spermatogonial Transplantation, 11-15-99 to 11-14-02, \$300,000, principal investigator.

USDA Formula Funds: Transplantation of Male Germ Cells in Pigs, 10-1-00 to 9-30-01, \$8,000, principal investigator.

Commonwealth of Pennsylvania Department of Agriculture: Improving Fertility of Preserved Bovine and Porcine Semen, 1-1-01 to 12-31-01, \$28,319 principal investigator.

NIH/NICHD (HD39641-02): Identification of Stem Cell Markers in Mammalian Testes, 3-1-01 to 3-1-03, \$ 100,000, principal investigator.

USDA/CSREES: Functional and Molecular Effects of the Oviduct on Bovine Sperm Capacitation, 11-1-01 to 10-31-03, \$90,000, Co-PI for post-doctoral award to Dr. H. Galantino-Homer.

AAEP Foundation: Utilization of the Thyrotropin-Releasing Hormone Test to Study the Effect of Thyroid Function on Fertility in the Mare. 1-1-01 to 6-30-02, \$4750, faculty supervisor.

USDA Formula Funds: Testis Tissue Xenografting to Produce Viable Sperm from Neonatal Farm Animals, 10-1-01 to 9-30-02, \$8,000, principal investigator.

NIH/NCRR (1 R01 RR17359-01): Transplantation of Testis Stem Cells in Large Animals, 6-1-02 to 5-31-07, \$1,250,000, principal investigator.

USDA Formula Funds: Accelerating Genetic Progress by Testis Xenografting in Farm Animals, 10-1-02 to 9-30-03, \$8,000, principal investigator.

NIH/NICHD (1R41 HD044780-01): Transgenic Goats Produced by Germ Cell Transplantation. 4-1-03 to 3-31-04, \$100,000, principal investigator.

NIH/NICHD (1 K08 HD041430-01): Molecular aspects of in vivo sperm capacitation. 6-1-03 to 8-31-06 (extended to 8-31-07), \$354,564, Co-PI for post-doctoral award to Dr. H. Galantino-Homer.

NIH/NCRR (1 R21 RR017419-01): A Novel Approach to Germ-Line Preservation in Macaques. 7-1-03 to 6-30-05 (extended to 6-30-06), \$200,000, co-principal investigator (S.A. Meyers, PI).

USDA/CSREES/NRICGP (2003-35203-13486): Xenografting of Testis Tissue in Agricultural Animals. 8-15-03 to 8-14-06 (extended to 8-14-07), \$300,000, principal investigator.

Commonwealth of Pennsylvania Department of Agriculture: Improving Sow Fertility through Novel Semen Extender Components, 1-1-04 to 12-31-05, \$58,000, principal investigator.

NIH/NCRR (5-K01-RR-019677-02): Oct4 and the maintenance of mammalian stem cells. 9-17-04 to 7-31-09; \$573,851, Co-PI for post-doctoral award to Dr. J. Kehler.

Morris Animal Foundation: Optimization of Testis Xenografting for the Preservation of Rare/Endangered Cats, 10-1-04 to 9-30-06, \$78,568, co-principal investigator (A.J.Travis, PI).

NIH/NICHD (2 R42 HD044780-02): Transgenic Goats Produced by Germ Cell Transplantation. 3-1-05 to 6-30-08, \$748,655, principal investigator.

USDA Formula Funds: Xenografting of Testis Tissue in Agricultural Animals – Developing a Strategy for Production of Unisex Sperm, 4-1-06 to 9-30-06, \$9,650, principal investigator.

Commonwealth of Pennsylvania Department of Agriculture: Improving Porcine Sperm Cryopreservation by Membrane Cholesterol Manipulation, 1-1-07 to

12-31-08, \$58,600, Co-PI (Galantino-Homer, PI).

USDA Formula Funds: Xenografting of Testis Tissue in Agricultural Animals – Accelerating Genetic Progress to Improve Disease Resistance, 12-1-06 to 9-30-07, \$ 9,900, principal investigator.

USDA/CSREES/NRICGP (2007-35203-18213): Xenografting of Testis Tissue in Agricultural Animals. 8-15-07 to 8-14-09, \$199,366, principal investigator.

NIH/NCRR (2 R01 RR17359-06): Transplantation of Testis Stem Cells in Large Animals, 9-27-07 to 5-31-12, \$1,230,000, principal investigator.

NIH/NIEHS (1P30 ES013508-02 (Pilot project): Use of a novel xenotransplantation model to study effects of chronic exposure to phthalate esters on the developing primate testis, 1-1-08 to 12-31-08, \$ 24,500, principal investigator.

USDA Formula Funds: Enabling genetic progress through derivation of pluripotent stem cells from porcine testes, 1-17-08 to 9-30-08, \$ 10,000, principal investigator.

Grayson-Jockey Club Research Foundation: Xenografting to study testicular function in stallions, 4-1-08 to 3-31-10, \$ 134,455, co-principal investigator.

NIH/NIEHS (1 R21 ES014856-01A2): Effect of chronic low-dose phthalate exposure on the immature primate testis. 8-8-08 to 7-31-10, \$ 405,375, principal investigator.

Patents:

DOBRINSKI, I., A. HONARAMOOZ, S. SCHLATT, H. SCHOLER: U.S. Patent 7,087,371 B2 entitled "Material and Methods for the Production of Sperm and Analysis Thereof", granted August 8, 2006

Ad Hoc Reviewer:

Comparative Biochemistry and Physiology
Grayson Jockey Club Research Foundation
Journal of the South African Veterinary Association
International Embryo Transfer Society
International Equine Reproduction Symposium

Journal of Andrology
USDA/CSREES/NRICGP
Journal of the American Veterinary Medical Association
American Journal of Veterinary Research
Biology of Reproduction
Molecular Reproduction and Development
NSERC
Human Reproduction
Reproduction
Asian Journal of Andrology
Theriogenology
Proceedings of the National Academy of Sciences (PNAS) USA
The Wellcome Trust
Science
Stem Cells
Nature

Review panel membership:

USDA/CSREES/NRI - Animal Reproduction 2002
NIH/NICHD – U54 review committee 2002
NIH/NICHD – ZHD1 DRG-D SM S 2002
Royan International Research Award 2002-2008
NIH/NCRR – CMRC 2003
NIH/NCRR – CRR1 CM-5 2003
NIH/CSR – DEV-1 2-2005
NIH/NICHD SCCPRR U54 review committee 2005
NIH/NICHD SCCPRIR U54 review committee 2006
NIH/NICHD – ZHD1 DSR-K 17 2007
NIH/NCRR – RIRG-C 2007, 2008
NIH/NCRR – COBRE SEP 2008
NIH/NCRR - ZRR1 CM-3 (01) 1 SEP 2008
NIH/NCRR – RIRG-C regular member 2008-2012

Teaching:

Hannover College of Veterinary Medicine:

Clinical instruction and laboratories for 4th and 5th year veterinary students in bovine obstetrics and gynecology, neonatal diseases, and mastitis diagnosis and therapy.

Western College of Veterinary Medicine, University of Saskatchewan:

Clinical instruction of 4th year veterinary students

Laboratories in bovine and equine reproduction

New York State College of Veterinary Medicine, Cornell University:

Laboratories in equine and bovine reproduction, lectures in equine reproduction

School of Veterinary Medicine, University of Pennsylvania:

Laboratories in large animal reproduction, lectures in reproductive management of dairy cattle and assisted reproductive technology (VSCN 643/644)

Laboratories in reproductive ultrasonography and semen handling (VSCN 880)

Core Reproduction, lectures in male reproductive physiology, breeding soundness evaluation, male reproductive pathology (VMED 610)

Frontiers in Reproduction, Woods Hole Marine Biology Lab:

Germ Cell Transplantation: Methodology and Applications. Lecture and laboratories (2003-2008).

University of Pennsylvania, Biomedical Graduate Studies:

Cell and Molecular Biology: First Year Seminar (CAMB 605, 2004).

Cell and Molecular Biology: Scientific Writing (CAMB 695, 2007, 2008).

Bioethics Workshops (2006-2008)

Clinical Service:

Hannover College of Veterinary Medicine:

Clinical and emergency service in bovine obstetrics and gynecology

Western College of Veterinary Medicine, University of Saskatchewan:

Clinical and emergency service in large and small animal reproduction

School of Veterinary Medicine, University of Pennsylvania:

Clinical and emergency service in large animal reproduction

Academic Service:

Hinxton Group (An International Consortium on Stem Cells, Ethics & Law):

Member 2008; Science, Ethics and Policy Challenges of Pluripotent Stem Cell-Derived Gametes

American College of Theriogenologists: Chair, Biotechnology Committee

Society for the Study of Reproduction: Animal Care Committee (2004, 2005)

Annual meeting program committee 2008, 2009

NSRRC (National Swine Resource & Research Center) Advisory Board (2003-present)

American Society for Andrology: Membership Committee, Annual meeting

Program Committee 2007 – 2009
Council member, 2008 - 2011
XXth North American Testis Workshop 2009: Program Committee

University of Pennsylvania:

Director of the Center for Animal Transgenesis and Germ Cell Research,
Member of:
Center for Research on Reproduction and Women's Health,
Center for Developmental Biology,
Center of Excellence in Environmental Toxicology,
Graduate Faculty, Biomedical Graduate Studies Graduate Group in Cell and
Molecular Biology
Training Grant in Cell and Molecular Biology (T32), Training Faculty member
Biomedical Postdoctoral Research Program: 2007 Research Symposium Faculty
Judge

School of Veterinary Medicine, University of Pennsylvania:

Member of: Committee on Academic Status of Students, Library Committee,
Dairy Committee, Center for Animal Health and Productivity Executive
Committee, Audiovisual Committee, Animal Care Committee.
Faculty Mentoring Committee (2007), Faculty Recruitment and Retention
Committee (2007), Long-range planning committee (2007-2009).
Search Committees for Animal Biology (5), Reproduction (2), Swine Production
Medicine.
Merck/NIH Summer Fellowship Program Advisory Committee.
Research Council (2006-current).
Faculty Mentoring committees for Drs. K. John McLaughlin, Ralph Meyer, Maria
Viveiros
Bridge Funding Review Committee (2007-current)

Training Grant in Comparative Medical and Molecular Genetics (T32
RR007063-11), Training Faculty member
NIH/Merck Summer Fellowship Program (T35), Training Faculty member.

Volunteer Service at Pennsylvania State Farm Show, New Bolton Center Open
House, Faculty Volunteer Equine Club, Bovine Club

Continuing Education:

Short course in Equine Reproductive Ultrasonography, New Bolton Center
Penn Annual Conference 2001

Mentorship:

1. Ali Honaramooz, DVM, PhD. Post-doctoral research associate, 1999-2004

2. Hannah Galantino-Homer, VMD, PhD. Post-doctoral research associate, 2000-2007
3. Daniel Hall, Penn Vet '03. Merck/NIH Summer Research Fellow, 2000.
4. Amy Snedaker, Penn Vet '05. Merck/NIH Summer Research Fellow, 2001
5. Travis Meredith, DVM. Resident in Reproduction (research supervisor), 2000-2002
6. Kristina Lu, VMD. Resident in Reproduction (research supervisor), 2001-2002
7. Rebecca Linke, Penn Vet '05. Merck/NIH Summer Research Fellow, 2002
8. James Kehler, VMD. Combined degree/PhD advisory committee, 2002-2004
9. Wenxian Zeng, BS., Ph.D. Post-doctoral research associate, 2003-
10. Rahul Rathi, DVM, PhD., Post-doctoral research associate, 2003-2007
11. Modesty Dallmeyer, Penn Vet '07. Merck/NIH Summer Research Fellow, 2004
12. Jinping Luo, BA, MS, Ph.D. Post-doctoral research associate, 2004-2007
13. James Kehler, VMD, Ph.D. Post-doctoral research associate, 2004-
14. Dawna Voelkl, DVM. Resident in Reproduction (research supervisor), 2004-2005
15. Lucia Arregui, BS, MS. Ph.D. candidate, Autonomous University of Madrid, 2006-2008
16. Michael Reese, Penn Vet '09. Merck/NIH Summer Research Fellow, 2006
17. YeunHee Kim, BS. Ph.D. candidate, Cornell University, 2006-
18. Jose Rafael Rordiguez Sosa, DVM, Ph.D. Post-doctoral research associate, 2007-
19. Swapna Mohan, DVM, MS. One year research experience. 2008-2009.
20. Yolanda Markley, Tuskegee Vet. '11, summer research experience, 2008.

Publications:

Theses:

1. **DOBRINSKI, I.** (1989): Endogene Opiode beim Rind im peripartalen und perinatalen Zeitraum. (Endogenous opioids in cattle during the periparturitional and perinatal period.) Thesis, College of Veterinary Medicine, Hannover, Germany
2. **DOBRINSKI, I.** (1997): Sperm-oviduct interactions in the horse: Functional aspects. Dissertation, Cornell University, Ithaca, NY

Peer-reviewed Papers:

1. AURICH, J.E., **I. DOBRINSKI**, E. GRUNERT & H.-O. HOPPEN (1990): μ -Endorphin and met-enkephalin in plasma of cattle during pregnancy, parturition and the neonatal period. J. Reprod. Fert., 89, 605-612.
2. AURICH, J.E., **I. DOBRINSKI** & E. GRUNERT (1990): Intestinal cryptosporidiosis in calves on a dairy farm. Vet. Rec., 127, 380-381.

3. **DOBRINSKI, I.**, J.E. AURICH, E. GRUNERT & H.-O. HOPPEN (1991): Endogene Opiode beim Rind waehrend Traechtigkeit, Geburt und Neugeborenenphase. (Endogenous opioid peptides in cattle during pregnancy, parturition and the neonatal period.) Dtsch. tieraerztl. Wochenschr., 98, 224-226.
4. AURICH, J.E., & **I. DOBRINSKI** (1991): Adaptationsstoerungen bei neugeborenen Tieren: Pathogenese und Therapie. (Neonatal adaptation: Pathophysiology and treatment - review article.) Tieraerztl. Prax., 19, 461-464.
5. **DOBRINSKI, I.**, J.E. AURICH, H.-O. HOPPEN & E. GRUNERT (1992): β -Endorphin and met-enkephalin in cattle during late gestation and parturition - release from uteroplacental tissues. Anim. Reprod. Sci., 27, 75-79.
6. AURICH, J.E., **I. DOBRINSKI**, H.-O. HOPPEN & E. GRUNERT (1993): Stimulation of release of β -endorphin and oxytocin by prostaglandin $F_{2\alpha}$ in cattle at parturition. J. Reprod. Fert., 97, 161-166.
7. AURICH, J.E., **I. DOBRINSKI** & N. PARVIZI (1993): β -Endorphin in sows during late pregnancy: Effects of cloprostenol and oxytocin on plasma concentrations of β -endorphin in the jugular and uterine veins. J. Endocrinology, 136, 199-206.
8. **DOBRINSKI, I.**, C. LULAI, A.D. BARTH & K. POST (1993): Comparison of the effects of four different extenders and three different freezing rates on post-thaw viability of canine semen. J. Reprod. Fert., Suppl. 47, 291-296.
9. AURICH, J.E., **I. DOBRINSKI**, H.-O. HOPPEN & E. GRUNERT (1993): No evidence for an opiodergic control of oxytocin release in cows during late pregnancy, parturition and early puerperium. Anim. Reprod. Sci., 32, 197-204.
10. AURICH, J.E., **I. DOBRINSKI**, A. PETERSEN. E. GRUNERT, W.-D. RAUSCH & W.W. CHAN (1993): The influence of labor and neonatal hypoxia on sympathoadrenal activation and methionine-enkephalin release in calves. Am. J. Vet. Res., 54, 1333-1338.
11. LULAI, C., **I. DOBRINSKI**, J.P. KASTELIC & R.J. MAPLETOFT (1994): Induction of luteal regression, ovulation and development of new luteal tissue during early pregnancy in heifers. Anim. Reprod. Sci., 35, 163-172.
12. **DOBRINSKI, I.**, C. LULAI & A.D. BARTH (1994): Effects of xylazine on early bovine pregnancy. Anim. Reprod. Sci., 36, 25-36.
13. **DOBRINSKI, I.**, H.P.A. HUGHES & A.D. BARTH (1994): Flow cytometric and microscopic evaluation and effect on fertility of abnormal chromatin condensation in

bovine sperm nuclei. *J. Reprod. Fert.*, 101, 531-538.

14. **DOBRINSKI, I.**, P.G.A. THOMAS & B.A. BALL (1995): Cryopreservation reduces the ability of equine spermatozoa to attach to oviductal epithelial cells and zonae pellucidae in vitro. *J. Androl.*, 16, 536-542.

15. **DOBRINSKI, I.**, S.S. SUAREZ & B.A. BALL (1996): Intracellular calcium concentration in equine spermatozoa attached to oviductal epithelial cells in vitro. *Biol. Reprod.*, 54, 783-788.

16. **DOBRINSKI, I.**, G.G. IGNOTZ, P.G.A. THOMAS & B.A. BALL (1996): Role of carbohydrates in the attachment of equine spermatozoa to uterine tubal (oviductal) epithelial cells in vitro. *Am.J.Vet.Res.* 57:1635-1639.

17. THOMAS, P.G.A., B.A. BALL, G.G. IGNOTZ, **I. DOBRINSKI**, J.E. PARKS & W.B. CURRIE (1997): Antibody directed against plasma membrane components of equine spermatozoa inhibits adhesion of spermatozoa to oviduct epithelial cells in vitro. *Biol.Reprod.* 56: 720-730.

18. **DOBRINSKI, I.**, T.T. SMITH, S.S. SUAREZ & B.A. BALL (1997): Membrane contact with oviductal epithelium modulates intracellular calcium concentration of equine spermatozoa in vitro. *Biol.Reprod.* 56: 861-869.

19. BALL, B.A., **I. DOBRINSKI**, M.S. FAGNAN & P.G.A. THOMAS (1997): Distribution of glycoconjugates in the uterine tube (oviduct) of the horses. *Am.J.Vet.Res.* 58: 816-822.

20. **DOBRINSKI, I.**, G.G. IGNOTZ, M.S. FAGNAN, A.I. YUDIN & B.A. BALL (1997): Isolation and characterization of a protein with homology to angiotensin converting enzyme from the periacrosomal plasma membrane of equine spermatozoa. *Mol. Reprod. Dev.* 48:251-260.

21. BALL, B.A., M.S. FAGNAN & **I. DOBRINSKI** (1997): Determination of acrosin amidase activity of equine spermatozoa. *Theriogenology* 48: 1191-1198.

22. OGAWA, T., **I. DOBRINSKI**, M.R. AVARBOCK & R.L. BRINSTER (1998): Leuprolide, a gonadotropin releasing hormone agonist, enhances colonization after spermatogonial transplantation into mouse testes. *Tissue & Cell* 30(5): 583-588.

23. OGAWA, T., **I. DOBRINSKI**, M.R. AVARBOCK & R.L. BRINSTER (1999): Xenogeneic spermatogenesis following transplantation of hamster germ cells to mouse testes. *Biol. Reprod.* 60: 515-521.

24. **DOBRINSKI, I.**, T. OGAWA, M.R. AVARBOCK & R.L. BRINSTER (1999):

Computer assisted image analysis to assess colonization of recipient seminiferous tubules by spermatogonial stem cells from transgenic donor mice. *Mol. Reprod. Dev.* 53: 142-148.

25. OGAWA, T., **I. DOBRINSKI** & R.L. BRINSTER (1999): Recipient preparation is critical for spermatogonial transplantation in the rat. *Tissue & Cell* 31(5): 461-472.

26. **DOBRINSKI, I.**, M.R. AVARBOCK & R.L. BRINSTER (1999): Transplantation of germ cells from rabbits and dogs into mouse testes. *Biol. Reprod.* 61: 1131-1139.

27. **DOBRINSKI, I.**, J.R. JACOB, B.C. TENNANT & B.A. BALL (1999): Generation of an equine oviductal epithelial cell line for the study of sperm-oviduct interactions. *Theriogenology* 52(5): 875-885.

28. OGAWA, T., **I. DOBRINSKI**, M.R. AVARBOCK & R.L. BRINSTER (2000): Transplantation of male germ line stem cells restores fertility in infertile mice. *Nature Medicine* 6(1): 29-34.

29. **DOBRINSKI, I.**, M.R. AVARBOCK & R.L. BRINSTER (2000): Germ cell transplantations from large domestic animals into mouse testes. *Mol. Reprod. Dev.*, 57: 270-279.

30. **DOBRINSKI, I.**, T. OGAWA, M.R. AVARBOCK & R.L. BRINSTER (2001): Effect of the GnRH-agonist leuprolide on colonization of recipient testes by donor spermatogonial stem cells after transplantation in mice. *Tissue & Cell* 33(2): 201-208.

31. HONARAMOOZ, A., S.O. MEGEE & **I. DOBRINSKI** (2002): Germ cell transplantation in pigs. *Biol. Reprod.* 66: 21-28.

32. HONARAMOOZ, A., A. SNEDAKER, M. BOIANI, H.R. SCHÖLER, **I. DOBRINSKI*** & S. SCHLATT (2002): Sperm from neonatal mammalian testes grafted in mice. *Nature* 418: 778-781.

* corresponding author

33. HONARAMOOZ, A., E. BEHBOODI, S. BLASH, S.O. MEGEE & **I. DOBRINSKI** (2003): Germ cell transplantation in goats. *Mol. Reprod. Dev.* 64: 422-428.

34. SCHLATT, S., A. HONARAMOOZ, M. BOIANI, H.R. SCHOLER & **I. DOBRINSKI** (2003): Progeny from sperm obtained after ectopic grafting of neonatal mouse testes. *Biol. Reprod.*, 68: 2331-2335.

35. HONARAMOOZ, A., E. BEHBOODI, S.O. MEGEE, S.A. OVERTON, H. GALANTINO-HOMER, Y. ECHELARD & **I. DOBRINSKI** (2003): Fertility and germline

transmission of donor haplotype following germ cell transplantation in immunocompetent goats. *Biol. Reprod.*, 69, 1260-1264.

36. MEREDITH, T., & **I. DOBRINSKI** (2004): Utilization of the thyrotropin-releasing hormone response test to study the effect of thyroid function on fertility in the mare. *J. Am. Vet. Med. Assoc.*, 224(6), 892-894.

37. HONARAMOOZ, A., M.-W. LI, C.T. PENEDO, S.A. MEYERS & **I. DOBRINSKI** (2004): Accelerated maturation of primate testis by xenografting into mice. *Biol. Reprod.* 70, 1500-1503.

38. GALANTINO-HOMER, H.L., H.M. FLORMAN, B.T. STOREY, **I. DOBRINSKI** & G.E. KOPF (2004): Bovine sperm capacitation: Assessment of phosphodiesterase activity and intracellular alkalization on capacitation-associated protein tyrosine phosphorylation. *Mol. Reprod. Dev.* 67, 487-500.

39. SNEDAKER, A., A. HONARAMOOZ & **I. DOBRINSKI** (2004): A game of cat and mouse: Xenografting of testis tissue from domestic kittens results in complete cat spermatogenesis in a mouse host. *J. Androl.* 25(6); 926-930.

40. HONARAMOOZ, A., E. BEHBOODI, C.L. HAUSLER, S. BLASH, S. AYRES, C. AZUMA, Y. ECHELARD & **I. DOBRINSKI** (2005): Depletion of endogenous germ cells in male pigs and goats in preparation for germ cell transplantation. *J. Androl.* 26(6): 698-705.

41. RATHI, R., A. HONARAMOOZ, W. ZENG, S. SCHLATT & **I. DOBRINSKI** (2005): Germ cell fate and seminiferous tubule development in bovine testis xenografts. *Reproduction* 130: 923-929.

42. SCHLATT, S. A. HONARAMOOZ, J. EHMCKE, P.J. GOEBELL, H. RUBBEN, R. DHIR, **I. DOBRINSKI*** & P. PATRIZIO (2006): Limited survival of adult human testicular tissue as ectopic xenograft. *Hum. Reprod.* 21(2): 384-389.

*corresponding author

43. GALANTINO-HOMER, H.L., W. ZENG, S. O. MEGEE, M. DALLMEYER, D.VOELKL & **I. DOBRINSKI** (2006): Effects of 2-hydroxypropyl- β -cyclodextrin and cholesterol on porcine sperm viability and capacitation status following cold shock or incubation. *Mol. Reprod. Dev.* 73: 638-650.

44. KIM, Y., V. SELVARAJ, **I. DOBRINSKI**, H. LEE, M. MCENTEE & A.J. TRAVIS (2006): Recipient preparation and mixed germ cell isolation for spermatogonial stem cell transplantation in domestic cats. *J. Androl.* 27(2): 248-256.

45. ZENG, W., G.F. AVELAR, R. RATHI, L.R. FRANCA & **I. DOBRINSKI** (2006): The

length of the spermatogenic cycle is conserved in porcine and ovine testis xenografts. *J. Androl.* 27(4): 527-533.

46. RATHI, R., A. HONARAMOOZ, W. ZENG, R. TURNER & **I. DOBRINSKI** (2006): Germ cell development in equine testis tissue xenografted into mice. *Reproduction* 131: 1091-1098.

47. LUO, J., S. MEGEE, R. RATHI & **I. DOBRINSKI** (2006): Protein gene product 9.5 is a spermatogonia-specific marker in pig testis: Application to enrichment and culture of porcine spermatogonia. *Mol. Reprod. Dev.* 72 (13): 1531-1540.

48. HERRID, M., S. VIGNARAJAN, R. DAVEY, **I. DOBRINSKI** & J.R. HILL (2006): Successful transplantation of bovine testicular cells to heterologous recipients. *Reproduction* 132: 617-624.

49. DE LA FUENTE, R., C. BAUMANN, T. FAN, A. SCHMIDTMANN, **I. DOBRINSKI** & K. MUEGGE (2006): Lsh is required for meiotic chromosome synapsis and retrotransposon silencing in female germ cells. *Nature Cell Biol.* 8 (12): 1448-1454.

50. HONARAMOOZ, A., S. MEGEE, R. RATHI & **I. DOBRINSKI** (2007): Building a Testis - Formation of Functional Testis Tissue after Transplantation of Isolated Porcine (*Sus scrofa*) Testis Cells. *Biol. Reprod.* 76: 43-47.

51. ZENG, W., R. RATHI, H. PAN & **I. DOBRINSKI** (2007): Comparison of global gene expression between porcine testis tissue xenografts and porcine testis in situ. *Mol. Reprod. Dev.* 74: 674-679.

52. ARREGUI, L. R. RATHI, W. ZENG, A. HONARAMOOZ, M. GOMENDIO, E.R.S. ROLDAN & **I. DOBRINSKI** (2008): Xenografting of adult testis tissue. *Anim. Reprod. Sci.* 106 (1-2): 65-76. (doi:10.1016/j.anireprosci.2007.03.026).

53. HONARAMOOZ, A., S. MEGEE, W. ZENG, M.M. DESTREMPES, S.A. OVERTON, J. LUO, H. GALANTINO-HOMER, M. MODELSKI, F. CHEN, S. BLASH, D.T. MELICAN, W.G. GAVIN, S. AYRES, F. YANG, P.J. WANG, Y. ECHELARD & **I. DOBRINSKI** (2008): Adeno-associated virus (AAV)-mediated transduction of male germline stem cells results in transgene transmission after germ cell transplantation. *FASEB J.* 22: 374-382. (fj.07-8935com. Published online September 14, 2007).

54. ARREGUI, L., R. RATHI, S.O. MEGEE, A. HONARAMOOZ, M. GOMENDIO, E.R.S. ROLDAN & **I. DOBRINSKI** (2008): Xenografting of ovine testis tissue and isolated cells as a model for preservation of material from endangered ungulates. *Reproduction* 136: 85-93.

55. HONARAMOOZ, A., X.-S. CUI, N.-H. KIM & **I. DOBRINSKI** (2008): Porcine embryos produced after ICSI using xenogeneic pig sperm from neonatal testis tissue grafted in mice. *Reprod. Fertil. Dev.* 20: 802-807.
56. RATHI, R., W. ZENG, S. MEGEE, A. CONLEY, S. MEYERS & **I. DOBRINSKI** (2008): Maturation of testicular tissue from infant monkeys after xenografting into mice. *Endocrinology* (in press).
57. LI, Y., T. KIDO, J. LUO, M.N. FUKUDA, **I. DOBRINSKI** & Y.-F. C. LAU (2008): Intratubular transplantation as a strategy for establishing animal models of testicular germ cell tumors. *Int. J. Exp. Pathol.* 89: 342-349.
58. KIM, Y., D. TURNER, J. NELSON, **I. DOBRINSKI**, M. McENTEE & A.J. TRAVIS (2008): Production of donor-derived sperm after spermatogonial stem cell transplantation in the dog. *Reproduction* (e-pub ahead of print).

Book chapters:

1. AURICH, J.E., **I. DOBRINSKI** & N. PARVIZI (1993): Opioid peptides in cattle and pigs during pregnancy and parturition - effect of labour, oxytocin and prostaglandin F_{2α}. In: N. PARVIZI (ed.) *Opioids in farm animals*. Landwirtschaftsverlag, Muenster, FRG, 119-134.
2. PILDER, S., J.A. GROOTEGOED, S. SCHLATT & **I. DOBRINSKI** (2001): Transgenic Technology. In: B. ROBAIRE, H. CHEMES & C.R. MORALES (eds.) *Andrology in the 21st century*. Medimond Inc., Englewood NJ, 67-76.
3. **DOBRINSKI, I.** (2004): Transplantation. In: M.K. SKINNER & M.D. GRISWOLD (eds.) *Sertoli Cell Biology*. Chapter 25. Elsevier, St. Louis MO, 471-485.
4. **DOBRINSKI, I.** (2006): Germ cell transplantation in pigs – advances and applications. In: C.J. ASHWORTH & R.R. KRAELING (eds.) *Control of Pig Reproduction IV*. Nottingham University Press, Nottingham U.K., 331-339.
5. **DOBRINSKI, I.** (2006): Transplantation of Germ Line Stem Cells for the Study and Manipulation of Spermatogenesis. In: MORSER, J., S.-I. NISHIKAWA & H.R. SCHOLER (eds.) *Stem Cells in Reproduction and in the Brain*. Springer Verlag, Berlin, Heidelberg, New York, 175-193.
6. **DOBRINSKI, I.** (2007): Transplantation of Germ Cells and Testis Tissue. In: LAU, Y.-F.C., & CHAN, W.-Y (eds.) *The Y Chromosome and Male Germ Cell Biology in Health and Disease*. World Scientific Publishers, New Jersey, London, 235-254.

7. **DOBRINSKI, I.** (2007): Transplantation of germ cells and testis tissue for the study and preservation of fertility. In: ROLDAN, E.R.S. and GOMENDIO, M., (eds.) *Spermatology*. Society for Reproduction and Fertility Volume 65, Nottingham University Press, Nottingham, UK; 447-458.

8. **DOBRINSKI, I., & J. HILL** (2007): Germ cell transplantation – a novel approach to designer animals? In: SWAIN, D.L., CHARMLEY, E., STEEL, J.W. and COFFEY, S.G., (eds.) *Redesigning Animal Agriculture: The Challenge of the 21st Century*. Chapter 6. CABI, Wallingford, UK; 81-93.

9. **DOBRINSKI, I. & R. RATHI** (2008): Ectopic grafting of mammalian testis tissue into mouse hosts. In: HOU, S.X. AND SINGH, S.R. (eds.) *Germline Stem Cells*. Chapter 10. *Methods in Molecular Biology* 450, Humana Press, Totowa, NJ; 139-148.

Invited reviews:

1. **DOBRINSKI, I.** (2005): Germ Cell Transplantation. *Seminars in Reproductive Medicine* (Special Issue) “New Frontiers in Gamete Biology”, 23 (3): 257-265.

2. **DOBRINSKI, I.** (2005): Germ cell transplantation and testis tissue xenografting in domestic animals. *Animal. Reprod. Sci.*, 89: 137-145.

3. **DOBRINSKI, I.** (2006): Advances and Applications of Germ Cell Transplantation. *Hum. Fertil.*, 9(1): 9-14.

4. HILL, J.R. & **I. DOBRINSKI** (2006): Male germ cell transplantation in livestock. *Reprod. Fertil. Dev.* 18: 13-18.

5. **DOBRINSKI, I.** (2006): Transplantation of germ cells and testis tissue to study mammalian spermatogenesis. *Anim. Reprod.* 3(2): 135-145.

6. **DOBRINSKI, I. & A. TRAVIS** (2007): Germ Cell Transplantation for the Propagation of Companion Animals, Non-Domestic and Endangered Species. *Reprod. Fertil. Dev.* 19: 732-739.

7. **DOBRINSKI, I.** (2007): De novo morphogenesis of functional testis tissue after ectopic transplantation of isolated cells. *Organogenesis* 3(2): 79-82.

8. **DOBRINSKI, I.** (2008): Male germ cell transplantation. *Reprod. Dom. Anim.* 43 (Suppl 2.), 288-294.

9. BAILEY, J.LI, C. LESSARD, J. JACQUES, C. BRÈQUE, **I. DOBRINSKI**, W. ZENG & H.L. GALANTINO-HOMER (2008): Cryopreservation of boar semen and its future

importance to the industry. Theriogenology (e-pub ahead of print).

Invited presentations:

1996

DOBRINSKI, I., P.G.A. THOMAS & B.A. BALL (1996): The oviductal sperm reservoir in the horse: Functional aspect. Society for Theriogenology, Proceedings for Annual Meeting, Kansas City, MO; 265-270.

1999

DOBRINSKI, I. (1999): Sperm-oviduct interactions in the horse: Functional Aspects. D.L.T. Smith Lecturer, Western College of Veterinary Medicine, University of Saskatchewan, Saskatoon, SK.

DOBRINSKI, I. (1999): Spermatogonial Transplantation: A new approach to transgenesis in domestic animals? D.L.T. Smith Lecturer, Western College of Veterinary Medicine, University of Saskatchewan, Saskatoon, SK.

DOBRINSKI, I. (1999): Spermatogonial Transplantation: An approach to transgenesis in domestic animals? Genzyme Transgenics, Framingham, MA

2000

DOBRINSKI, I. (2000): Spermatogonial Transplantation. Serono Reproductive Biology Institute, Inc., Randolph, MA.

2001

DOBRINSKI, I. (2001): The ART of Breeding Horses – Assisted Reproductive Techniques. 2001 Penn Annual Conference, Philadelphia, PA.

DOBRINSKI, I. (2001): Germ Cell Transplantation – a Technique for the Study and Preservation of the Male Germ Line. California Regional Primate Center, Davis, CA.

DOBRINSKI, I. (2001): Stem Cell Research and Xenotransplantation. Philadelphia Center for Religion and Science, Unionville, PA.

DOBRINSKI, I. (2001): Spermatogonial Transplantation – An Approach to Transgenesis in Domestic Animals. VIIth International Congress of Andrology, Montreal, Canada.

2002

DOBRINSKI, I. (2002): Germ Cell Transplantation for the Study, Manipulation and Preservation of the Male Germ Line. University of Saskatchewan, Reproductive

Science & Medicine Seminar.

DOBRINSKI, I. (2002): Advances and Applications in Germ Cell Transplantation. Gordon Research Conference on Reproductive Tract Function, New London, CT.

DOBRINSKI, I. (2002): Assisted Reproduction and Transgenesis in Domestic Animals. 3rd Royan International Research Award's Scientific Congress, Tehran, Iran.

DOBRINSKI, I. (2002): Germ Cell Transplantation for the Study and Preservation of the Male Germ Line. 3rd Royan International Research Award's Scientific Congress, Tehran, Iran.

DOBRINSKI, I. (2002): Germ Cell Transplantation for the Study, Manipulation and Preservation of the Male Germ Line. Georgetown University Medical Center, Department of Cell Biology.

DOBRINSKI, I. (2002): Germ Cell Transplantation for the Study, Manipulation and Preservation of the Male Germ Line. Department of Animal Sciences, College of Agriculture, Purdue University.

2003

DOBRINSKI, I. (2003): Transplantation of germ cells and testis tissue: A window into spermatogenesis. Baker Institute for Animal Health, Cornell University.

DOBRINSKI, I. (2003): Transplantation of germ cells and testis tissue: A window into spermatogenesis. Department of Dairy & Animal Science, College of Agricultural Sciences, PennState University.

DOBRINSKI, I. (2003): Testicular Tissue Grafting: New Perspectives For Biotechnology And Animal Reproduction. 36TH Annual Meeting, Society for the Study of Reproduction, Minisymposium. Biol. Reprod. 68, Suppl. 1, MS35, 105.

DOBRINSKI, I. (2003): Testicular Tissue Grafting: New Perspectives For Biotechnology And Animal Reproduction. USDA Beltsville Agricultural Research Center.

DOBRINSKI, I. (2003): Transplantation of germ cells and testis tissue: A window into spermatogenesis. CSIRO Brisbane, Australia.

DOBRINSKI, I. (2003): Transplantation of germ cells and testis tissue: A window into spermatogenesis. Monash Institute of Reproduction and Development, Monash University, Clayton, Australia.

2004

DOBRINSKI, I. (2004): Transplantation of germ cells and testis tissue. Institut für Tierzucht und Tierverhalten, FAL, Neustadt-Mariensee, Germany.

DOBRINSKI, I. (2004): Transplantation of germ cells and testis tissue. Gordon Research Conference on Mammalian Gametogenesis and Embryogenesis, New London, CT.

DOBRINSKI, I. (2004): Germ cell transplantation in domestic animals. 2004 International Young Scientist Forum on Modern Reproductive Biology & Biotechnology, the 30th Forum of Engineering and Technology sponsored by the Chinese Academy of Engineering, Inner Mongolia University, Huhhot, Inner Mongolia, China

DOBRINSKI, I. (2004): Transplantation of germ cells and testis tissue. State Key Lab of Reproductive Biology, Institute of Zoology, Chinese Academy of Sciences, Beijing, China.

DOBRINSKI, I. (2004): Transplantation of germ cells and testis tissue: A window into spermatogenesis. Texas A&M University.

DOBRINSKI, I. (2004): Advances and applications of germ cell transplantation. British Andrology Society, Annual Meeting, Lincoln, UK.

2005

DOBRINSKI, I. (2005): Germ cell transplantation in the pig: Status and Possibilities. Billy N. Day Symposium in Reproductive Biology, Midwestern Section Meeting of the American Society of Animal Science. Abstract 221, p. 55, Proceedings of the Midwest Meeting, ASAS ADSA.

DOBRINSKI, I. (2005): Germ cell transplantation – Where will this technology go? 30th Annual Meeting, American Society for Andrology, Seattle, WA

DOBRINSKI, I. (2005): Germ cell transplantation in pigs – advances and applications. 7th International Conference on Pig Reproduction, Rolduc, Netherlands.

DOBRINSKI, I. (2005): Transplantation of germ cells and testis tissue. Pre-SSR Symposium at Queen's University, Kingston, ON, Canada

DOBRINSKI, I. (2005): Germ cell transplantation and transgenesis in pigs and goats. 38TH Annual Meeting, Society for the Study of Reproduction, Minisymposium. Biol. Reprod. Special Issue, MS10, 72.

DOBRINSKI, I. (2005): Transplantation of germ line stem cells for the study and manipulation of spermatogenesis. Ernst Schering Research Foundation Workshop 60: Stem Cells in Reproduction and the Brain, Kobe, Japan.

DOBRINSKI, I. (2005): Transplantation of germ cells and testis tissue. Y Chromosome and Male germ Cell Biology in Health and Disease in the Post genomic Area. NICHD Symposium, Asilomar Conference Grounds, Pacific Grove, CA.

DOBRINSKI, I. (2005): Germ cell transplantation – A novel approach to ‘Designer Animals’? Horizons in Livestock Sciences, Queensland, Australia.

DOBRINSKI, I. (2005): Germ cell transplantation and testis tissue xenografting in domestic animals. 4th International Symposium on Stallion Reproduction, Hannover, Germany.

DOBRINSKI, I. (2005): Transplantation of testis tissue. Toxicology Graduate Group Seminar Series, University of Illinois, Urbana-Champaign, IL.

DOBRINSKI, I. (2005): Transplantation of Germ Cells and Testis Tissue. NIH Training Program in Mammalian Reproduction, University of Texas Houston Graduate School of Biomedical Sciences, Reproductive Biology Track, U.T. M.D. Anderson Cancer Center, Houston, Texas.

2006

DOBRINSKI, I. (2006): Transplantation of Testis Tissue – A Comparative Look at Mammalian Spermatogenesis. Dept. of Biomedical Sciences Seminar Series, Animal Reproductive Biology Laboratory, Colorado State University, Fort Collins, CO.

DOBRINSKI, I. (2006): Testis tissue transplantation - A Comparative Approach to the Study of Mammalian Spermatogenesis. Animal Molecular and Cellular Biology (AMCB) Distinguished Lecture. University of Florida, Gainesville, FL

HONARAMOOZ, A., S. MEGEE, R. RATHI, W. ZENG, J. LUO & **I. DOBRINSKI** (2006): Building a testis – Formation of functional testis tissue after transplantation of isolated cells. Short talk, Gordon Conference on Mammalian Gametogenesis and Embryogenesis, New London, CT.

DOBRINSKI, I. (2006): Transplantation of germ cells and testis tissue for the study and preservation of fertility. 10th International Symposium on Spermatology Madrid 2006

DOBRINSKI, I. (2006): Transplantation of germ cells and testis tissue to study mammalian spermatogenesis. International Symposium on Animal Biology of Reproduction, Belo Horizonte, MG, Brazil.

DOBRINSKI, I. (2006): Testis Tissue Transplantation to Study Mammalian Spermatogenesis. Tuskegee University, College of Agriculture and Animal Science.

DOBRINSKI, I. (2006): Testis Tissue Transplantation for the Study of Mammalian Spermatogenesis. 16th Lake Shirakaba Conference, St. George's University, Grenada

2007

DOBRINSKI, I. (2007): Germline Stem Cells and Mammalian Spermatogenesis – Different Approaches to Study a Complex System. University of Pittsburgh School of Medicine, Cell Biology and Physiology Seminar.

DOBRINSKI, I. (2007): Transplantation of male germ cells between unrelated, immunocompetent animals. 27th Annual Meeting, American Society for Reproductive Immunology, Toronto, Canada. *Am. J. Reprod. Immunol.* 57: 315-316.

DOBRINSKI, I. (2007): Germ Cell Transplantation and Transgenesis in Domestic Animals. UC Davis Transgenic Animal Research Conference VI, Lake Tahoe, CA.

DOBRINSKI, I. (2007): Germ cell transplantation and testicular xenografting in mammals. International Minisymposium on Spermatogonial Stem Cells, Federal University of Minas Gerais, Belo Horizonte, Brazil

DOBRINSKI, I. (2007): Germ cell transplantation and testicular xenografting in mammals. Plenary presentation, XXII Annual Meeting of the Federation of Societies for Experimental Biology (FeSBE), Aguas de Lindoia, Brazil.

DOBRINSKI, I. (2007): Germ cell transplantation and transgenesis in domestic animals. 2007 International Young Scientist Forum on Mammalian Reproductive Biotechnology, Inner Mongolia University, Hohhot, China.

DOBRINSKI, I. (2007): Germ cell transplantation and transgenesis. Sichuan Agricultural University, Ya'an, China.

DOBRINSKI, I. (2007): Germline Stem Cells and Mammalian Spermatogenesis – Different Approaches to Study a Complex System. University of Calgary College of Veterinary Medicine, Calgary, Canada.

DOBRINSKI, I. (2007): Germline Stem Cell Transplantation: Delivering Genetics the 'Natural' Way. National Research Council, Workshop on Animal Health, Soils, Water & Energy. National Academies, Washington, DC.

DOBRINSKI, I. (2007): Germline Stem Cells and Mammalian Spermatogenesis – Different Approaches to Study a Complex System. Georgetown University Medical Center, Dept. of Biochemistry and Molecular & Cellular Biology, Washington, DC.

LUO, J. S.M. MEGEE & **I. DOBRINSKI** (2007): Distribution of ubiquitin carboxyl-terminal hydrolase L1 (UCH-L1) in mammalian spermatogonia. 41st Annual Conference

on Gene Families and Isozymes, Tamarindo, Costa Rica.

2008

DOBRINSKI, I. (2008): Germline Stem Cells and Mammalian Spermatogenesis – Different Approaches to Study a Complex System. Center for Research on Reproduction and Women's Health, School of Medicine, University of Pennsylvania, Philadelphia, PA.

DOBRINSKI, I. (2008): Male germ cell transplantation. 16th International Congress on Animal Reproduction, Budapest, Hungary.

Peer-reviewed Abstracts:

1. AURICH, J.E., **I. DOBRINSKI**, E. GRUNERT & H.-O. HOPPEN (1990): β -Endorphin and met-enkephalin in cattle at parturition: possible release from uteroplacental tissues. *Acta endocrinol.*, 122, Suppl. 1, 118.
2. **DOBRINSKI, I.**, J.E. AURICH, H.-O. HOPPEN & E. GRUNERT (1990): Endogenous opioids in newborn calves: possible role in neonatal adaptation. Proceedings of the Second Int. Conference on Veterinary Perinatology, Cambridge, UK, 33.
3. **DOBRINSKI, I.**, J.E. AURICH, G.-U. GRAEBENTEICH, E. GRUNERT & H.-O. HOPPEN (1991): Labour-associated hormones in cattle at parturition - correlation between plasma β -endorphin and oxytocin. *Acta endocrinol.*, 124, Suppl. 1, 31.
4. AURICH, J.E., **I. DOBRINSKI**, G.-U. GRAEBENTEICH, E. GRUNERT & H.-O. HOPPEN (1991): β -Endorphin and Oxytocin beim Rind waehrend der Abkalbung - Bedeutung fuer die Steuerung der Wehentaetigkeit. (β -Endorphin and oxytocin in cattle at parturition - possible role in the regulation of labour.) *Reprod. in Domestic Anim.*, 26, 193.
5. LULAI, C., **I. DOBRINSKI**, J.P. KASTELIC & R.J. MAPELTOFT (1992): Generation of new luteal tissue in pregnant heifers. 14th Annual Winter Workshop, Canada West Society for Reproductive Biology, Edmonton, Canada, 17.
6. AURICH, J.E., **I. DOBRINSKI** & N. PARVIZI (1992): β -Endorphin and met-enkephalin release in late-pregnant sows - influence of oxytocin and prostaglandin F₂ α . *Acta endocrinol.*, 126, Suppl. 4, 35.
7. **DOBRINSKI, I.**, J.E. AURICH, A. PETERSEN, E. GRUNERT & W.-D. RAUSCH (1992): Sympathoadrenal activity and met-enkephalin release in response to labour and hypoxia in pre-term and term calves. Proceedings of the 12th Int. Congress on Animal

Reproduction, The Hague, Netherlands, vol. 2, 892-894.

8. AURICH, J.E., **I. DOBRINSKI** & N. PARVIZI (1992): Effect of cloprostenol and oxytocin on β -endorphin release in late-pregnant sows. Proceedings of the 12th Int. Congress on Animal Reproduction, The Hague, Netherlands, vol. 2, 834-836.

9. **DOBRINSKI, I.**, C. LULAI & A.D. BARTH (1993): Effects of xylazine on early bovine pregnancy. 15th Annual Winter Workshop, Canada West Society for Reproductive Biology, Saskatoon, Canada, 23.

10. **DOBRINSKI, I.**, & A.D. BARTH (1993): Abnormal chromatin condensation in bovine sperm nuclei. Revista Brasileira de Reproducao Animal (10th Brazilian Congress on Animal Reproduction, Belo Horizonte, MG, Brazil) Suppl., Vol.1, 15-23.

11. **DOBRINSKI, I.**, C. LULAI & A.D. BARTH (1993): Effects of xylazine on early bovine pregnancy. Proceedings of the 3rd Int. Conference on Veterinary Perinatology, Davis, CA, 34.

12. **DOBRINSKI, I.**, P.G.A. THOMAS & B.A. BALL (1994): Cryopreservation decreases the ability of equine spermatozoa to attach to oviductal epithelial cells in vitro. Biol. Reprod., 50, Suppl. 1, 181.

13. **DOBRINSKI, I.**, B.A. BALL & P.G.A. THOMAS (1995): Effects of monosaccharides on the interaction of equine spermatozoa with oviductal epithelial cells in vitro. Theriogenology, 43, 198.

14. **DOBRINSKI, I.**, P.G.A. THOMAS, G.G. IGNOTZ, J.E. PARKS, W.B. CURRIE & B.A. BALL (1995): Isolation and characterization of plasma membrane vesicles derived from equine spermatozoa. J. Reprod. Fert., abstract series 15, 44.

15. BALL, B.A., P.G.A. THOMAS & **I. DOBRINSKI** (1995): Distribution of glycoconjugates in the equine oviduct. Biol. Reprod. 52, Suppl. 1, abstract # 246, 118.

16. THOMAS, P.G.A., B.A. BALL, G.G. IGNOTZ, **I. DOBRINSKI** & W.B. CURRIE (1995): Antibody directed against sperm plasma membrane inhibits sperm adhesion to oviduct epithelial cells. Biol.Reprod. 52, Suppl. 1, abstract #245, 118.

17. **DOBRINSKI, I.**, B.A. BALL & S.S. SUAREZ (1995): Intracellular calcium concentrations in equine spermatozoa attached to oviductal epithelial cells in vitro. Biol. Reprod. 52, Suppl.1, abstract #247, 118.

18. **DOBRINSKI, I.**, S.S. SUAREZ & B.A. BALL (1996): Modulation of intracellular calcium in equine spermatozoa by cell contact and secretory products of oviductal epithelial cells in vitro. Proceedings of the 13th Int. Congress on Animal Reproduction,

Sydney, Australia; vol.2, P12-12.

19. BALL, B.A., T.P. SKOGLUND, M.S. FAGNAN & **I. DOBRINSKI** (1996): Determination of acrosome activity of equine spermatozoa. Proceedings of the 13th Int. Congress on Animal Reproduction, Sydney, Australia; vol.2, P12-13.
20. SMITH, T.T., W.B. NOTHNICK, **I. DOBRINSKI** & B.A. BALL (1996): Protein composition of the apical plasma membrane of equine oviductal epithelial cells. Biol. Reprod. 54, Suppl. 1, abstract #82, 77.
21. **DOBRINSKI, I.**, T.T. SMITH & B.A. BALL (1996): Apical membrane vesicles from oviductal epithelium prolong viability and modulate intracellular calcium in equine sperm in vitro. Biol. Reprod. 54, Suppl. 1, abstract #184, 102.
22. **DOBRINSKI, I.**, P.G.A. THOMAS, T.T. SMITH & B.A. BALL (1996): Sperm-oviduct interaction: Role of sperm adhesion and effects of sperm cryopreservation. AAEP Proceedings, Vol. 42:144-145.
23. **DOBRINSKI, I.**, & B.A. BALL (1997): Binding of equine sperm to oviductal epithelial cells delays capacitation and prolongs sperm viability in the mares oviduct. 4th International Symposium on Equine Embryo Transfer, Reims, France, 1997
24. **DOBRINSKI, I.**, G.G. IGNOTZ, M.S. FAGNAN, A.I. YUDIN & B.A. BALL (1997): Isolation and characterization of a protein with homology to angiotensin converting enzyme from the periacrosomal plasma membrane of equine spermatozoa. Biol. Reprod. 56, Suppl. 1, abstract #6, 84.
25. **DOBRINSKI, I.**, T. OGAWA, M. R. AVARBOCK & R. L. BRINSTER (1999): Image analysis to assess colonization of recipient testes by spermatogonial stem cells from transgenic mice. XVth Testis Workshop. The Testis: From Stem Cell to Sperm Function, Sero Symposium, Louisville, KY, 38 (abstract I-23).
26. **DOBRINSKI, I.**, M. R. AVARBOCK & R. L. BRINSTER (1999): Transplantation of rabbit germ cells into mouse testes. Biol. Reprod. 60, Suppl. 1, abstract #329, 195-196.
27. **DOBRINSKI, I.**, T. OGAWA, M.R. AVARBOCK & R.L. BRINSTER (2000): GnRH-agonist treatment for male germ cell transplantation in mice. Proceedings, Cold Spring Harbor Laboratory meeting on Germ Cells, 38.
28. HONARAMOOZ, A., R.L. BRINSTER & **I. DOBRINSKI** (2001): Development of a technique for germ cell transplantation in pigs. XVIth Testis Workshop. Regulatory Mechanisms of Testicular Cell Differentiation, Sero Symposium, Newport Beach, CA.
29. HONARAMOOZ, A., E. BEHBOODI & **I. DOBRINSKI** (2001): Germ cell

transplantation in goats: Development of a technique. Biol. Reprod. 64, Suppl. 1, abstract #279, 216.

30. GALANTINO-HOMER, H., S.O. MEGEE, G. KILLIAN, G.S.KOPF & **I. DOBRINSKI** (2001): Effect of the oviduct on bovine sperm capacitation and protein tyrosine phosphorylation. Biol. Reprod. 64, Suppl. 1, abstract #429, 274-275.

31. **DOBRINSKI, I.**, S.MEGEE, & H. GALANTINO-HOMER (2002). Comparison of three in vitro assays for bovine sperm capacitation. XXII. World Buiatrics Congress, Hannover, Germany, abstract # 274-426, p.87.

32. SNEDAKER, A., A. HONARAMOOZ, S. SCHLATT, & **I. DOBRINSKI** (2002): Cryopreservation of porcine testicular tissue. Biol. Reprod. 66, Suppl. 1, abstract #479, 292.

33. HONARAMOOZ, A., N.-H. KIM, & **I. DOBRINSKI** (2002): Porcine embryos produced after ICSI using sperm from neonatal testis tissue grafted in mice. Abstracts, Cold Spring Harbor Laboratory meeting on Germ Cells, October 9-13, 2002: 49.

34. KEHLER, J., A. HONARAMOOZ, **I. DOBRINSKI** & H. SCHOLER (2002): Oct-4 positive gonocytes express markers of primordial germ cells and adult spermatogonia. Abstracts, Cold Spring Harbor Laboratory meeting on Germ Cells, October 9-13, 2002: 58.

35. HONARAMOOZ, A., S. MEGEE, B. FOLEY, & **I. DOBRINSKI** (2003): Use of adeno-associated virus for transfection of male germ cells for transplantation in pigs. Theriogenology 59 (1), 536.

36. **DOBRINSKI, I.**, S. MEYERS & A. HONARAMOOZ (2003): Accelerated sperm production from immature rhesus macaque testis by xenografting in mice. XVII North American Testis Workshop, Phoenix, AZ March 26-29, 2003: 159 (abstract # 22).

37. GALANTINO-HOMER, H.L., H.M. FLORMAN, B.T. STOREY, **I. DOBRINSKI** & G.S. KOPF (2003): Bovine sperm capacitation: Assessment of phosphodiesterase activity and intracellular alkalization on capacitation-associated protein tyrosine phosphorylation. Biol. Reprod. 68, Suppl. 1, abstract #139, 169.

38. HONARAMOOZ, A., S. MEYERS, S. SCHLATT & **I. DOBRINSKI** (2003): Xenografting of testis tissue reveals differences in the initiation of spermatogenesis between the rhesus macaque and common marmoset. Biol. Reprod. 68, Suppl. 1, abstract #49, 132.

39. **DOBRINSKI, I.**, S. MEGEE & A. HONARAMOOZ (2003): Xenografting of testis tissue from neonatal ram lambs into mouse hosts accelerates sperm production. Biol. Reprod. 68, Suppl. 1, abstract #191, 190.

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