

BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

NAME Joan S. Jorgensen	POSITION TITLE Assistant Professor
eRA COMMONS USER NAME (credential, e.g., agency login) JORGENSEN_JOAN	

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)

INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
University of Wisconsin, Madison, WI	B.S.	1988	Biochemistry
University of Wisconsin, Madison, WI	D.V.M	1993	Veterinary Medicine
North Carolina State University, Raleigh, NC	A.C.V.I.M	1997	Veterinary Internal Medicine
Case Western Reserve University	Ph.D.	2001	Pharm/Endocrinology

A. Personal Statement

Principal Investigator: After obtaining my baccalaureate degree, I pursued professional and clinically oriented educations with a sprinkle of research experiences scattered throughout. Immediately following a residency in Equine Internal Medicine, I focused on a purely basic science research project that culminated in my doctoral degree. From these disparate experiences I gained an appreciation for basic science and clinical medicine and the advantage to researchers to understand both worlds. My first position as an Assistant Professor was an excellent environment for development of my teaching, service, and clinical skills and prepared me for the pursuit of a more serious research program. To that end, I recently obtained my current position at the University of Wisconsin where I can take advantage of serious investments in time, mentorship, and facilities that allow me to develop an active research program. Overall, through my education and through establishment of critical collaborations, I have accumulated an outstanding understanding of cell and molecular biology along with whole animal physiology that lend well to a career in investigations of sex determination and differentiation and understanding how environmental and genetic miscues during the fetal stages can lead to adult diseases.

B. Positions and Honors

Positions and Employment

- 08/1989-05/1993 Veterinary Student, School of Veterinary Medicine, University of Wisconsin, Madison, Wisconsin
- 07/1993-06/1994 Intern, Equine Ambulatory Medicine, College of Veterinary Medicine, North Carolina State University, Raleigh, North Carolina
- 07/1994-07/1996 Resident, Equine Internal Medicine, College of Veterinary Medicine, North Carolina State University, Raleigh, North Carolina
- 07/1996-06/2001 Predoctoral Research, Professor John H. Nilson, Department of Pharmacology, Case Western Reserve University, Cleveland, OH
- 06/2001-04/2002 Postdoctoral Research, Professor John H. Nilson, Department of Pharmacology, Case Western Reserve University, Cleveland, OH
- 05/2002-02/2008 Assistant Professor, Department of Veterinary Bioscience, University of Illinois, Urbana, Illinois
- 03/2008-present Assistant Professor, Department of Comparative Biosciences, University of Wisconsin, Madison, Wisconsin

Other Experience: Associates Council, The Endocrine Society (2000-03); Research Affairs Committee, The Endocrine Society (2000-03); Credentials Committee, American College of Veterinary Internal Medicine (2001-04); Reviewer Laylor Foundation (2003-04); Governmental Affairs Committee, The Endocrine Society (2003-07); Trainee Affairs Committee, Society for the Study of Reproduction (2008-present); Director SSR Outreach, Society for the Study of Reproduction (2009-2010); Reviewer ACVIM Foundation (2009-present); Chair Minisymposium SSR 43rd Annual Meeting (2010).

Professional Memberships: American Veterinary Medical Association (AVMA, 1989), American Association of Equine Practitioners (AAEP, 1993), American College of Veterinary Internal Medicine (ACVIM, 1997), Society for the Study of Reproduction (SSR, 2000), The Endocrine Society (2000), Women in Endocrinology (2000)

Reviewer Duties: ad hoc reviewer for the National Science Foundation and journals: Biochemistry, Molecular Endocrinology, Endocrinology, Journal of Clinical Endocrinology and Metabolism, Trends in Endocrinology and Metabolism, Toxicology and Applied Pharmacology, Animal Reproduction, Developmental Dynamics, and Biology of Reproduction

Honors: Induction into Golden Key Honor Society (1985), Induction into Phi Kappa Phi Honor Society (1988), Mary Shine Peterson Scholarship, University of Wisconsin-Madison (1988), Nontraditional Veterinary Medicine Scholarship, University of Wisconsin School of Veterinary Medicine (1991), Student Research Day Award, University of Wisconsin School of Veterinary Medicine (1992), Induction into Phi Zeta Honor Society (1993), House Officer of the Year, 1st Annual Award, North Carolina State University (1996), Department of Pharmacology Graduate Student Research Presentation Award, CWRU (1999), Department of Pharmacology Student of the Year Award, CWRU (2000), 2000 Endocrine Society Travel Grant Award, ENDO 2000, Toronto, Canada (2000), Arnold O. Beckman Research Award, University of Illinois (2004), Carl J. Norden/Pfizer Distinguished Teaching Award, University of Illinois (2007), Dr. Gordon & Mrs. Helen Kruger Distinguished Teacher Award, University of Illinois (2007), Invited Speaker, XVIth Ovarian Workshop (2007), Endocrine Society Travel fellowship, 5th International Symposium on Vertebrate Sex Determination (2009)

C. Peer-reviewed Publications

1. **Jorgensen JS**, Nilson JH 2001 Androgen receptor suppresses transcription of the α glycoprotein subunit gene through protein-protein interactions with cJun and ATF2. Mol Endocrinol 15(9):1496-1504.
2. **Jorgensen JS**, Nilson JH 2001 Androgen receptor suppresses the luteinizing hormone β subunit by interacting with SF1. Mol Endocrinol 15(9):1505-1516,
3. Chipuk JE, Cornelius SS, Pultz NJ, **Jorgensen JS**, Bonham MJ, Kim SJ, Danielpour D 2002 The androgen receptor represses TGF-beta signaling through interaction with Smad3. J Biol Chem 277(2):1240-8.
4. **Jorgensen JS**, Quirk CC, Nilson JH 2004 Multiple and overlapping combinatorial codes orchestrate hormonal responsiveness and dictate cell-specific expression of the genes encoding LH. Endocr Rev 25:521-542.
5. **Jorgensen JS**, Gao L 2005 *Irx3* Is Differentially Up-regulated in Female Gonads During Sex Determination Gene Expr Patterns 5/6:756-762.
6. Barsoum IB, Bingham NC, Parker KL, **Jorgensen JS**, Yao HHC 2009 Activation of the Hedgehog pathway in the mouse fetal ovary leads to ectopic appearance of fetal Leydig cells and female pseudohermaphroditism. Dev Biol 329(1):96-103. PMID: PMC2673990
7. **Jorgensen JS**, Stewart AA, Stewart MC, Genovese RL 2010 Ultrasonographic examination of the caudal structures of the distal antebrachium in the horse. Equine Vet Educ 22:146-155.
8. Gao L, Kim B, Kim Y, Lofgren SM, Schultz-Norton JR, Nardulli AM, Heckert LL, **Jorgensen JS** 2010 Two regions within the proximal Sf1 promoter drive somatic cell-specific activity in developing gonads of the female mouse. *In press*, Biol Reprod
9. Kim B, Kim Y, Sakuma R, Hui CC, R  ther U, **Jorgensen JS** 2010 Primordial germ cell proliferation is impaired in early gonads of Fused Toes mutant mice. *In press*, Dev Biol
10. Kim B, Kim Y, Doty KF, Cooke PS, R  ther U, **Jorgensen JS** 2010 The Fused Toes locus is essential for somatic-germ cell interactions that foster germ cell maturation in developing gonads. *Accepted pending revisions*, Biol Reprod