

Michelle Jamnongjit Zhao, Ph.D.

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Professional Profile

Experienced, dynamic Associate Professor of Pharmacology passionate about developing and providing students with challenging, effective, and engaging education. Skilled researcher with ability to recognize and adopt key emerging technologies and trends. Motivated and service-oriented leader with demonstrated ability to facilitate positive, collaborative team environments across a broad range of committee assignments.

Education

- **Ph.D., Biomedical Sciences, Cell Signaling.** University of Texas Southwestern Medical Center, Dallas, TX, Dec. 2006
Advisor: Stephen R Hammes M.D., Ph.D.
Committee: Carole Mendelson Ph.D., Philip Shaw M.D., David Garbers Ph.D.
- **B.A., Psychology and Biology.** University of Texas, Austin, TX, May 2002
Graduated with high honors (top 10%)

Employment

- **Associate Professor of Pharmacology.** Nova Southeastern University (NSU), College of Medical Sciences (CMS), Ft. Lauderdale, FL, Jan. 2010 – Present
Teach students in the allopathic, osteopathic, dental, optometry, and physician assistant programs. Topics of expertise include: principles of pharmacology, cardiovascular, endocrine, and neuropharmacology.
- **Postdoctoral Fellow.** Molecular Cardiology Research Institute, Tufts Medical Center, Boston, MA, Oct. 2006 – Dec. 2009
Advisor: Michael Mendelsohn, M.D.

University Service

- **Chair, Merit and Promotions Committee.** NSU CMS, Jan. 2014 – Present
Lead cross-departmental team in developing standard policies and procedures to assess the accomplishments of faculty members. Manage the review process and evaluate annual faculty packets to make recommendations for promotion.
- **Curriculum Committee.** NSU College of Osteopathic Medicine (COM), Jan. 2011 – Present

- **Admissions Committee.** NSU COM, Aug. 2014 – Present; NSU MD April 2017 – Present
- **Case Writer.** Problem based learning (PBL) curriculum for allopathic (MD) program
- **Employee Engagement Committee.** NSU, CMS representative
- **Grant Reviewer.** NSU President’s Faculty Research and Development Grant, Jan. 2012 – Present

Refereed Journal Publications

- McCurley A, Pires PW, Bender SB, Aronovitz M, **Zhao MJ**, Metzger D, Chambon P, Hill MA, Dorrance AM, Mendelsohn ME, Jaffe IZ. (2012) Direct regulation of blood pressure by smooth muscle cell mineralocorticoid receptors. *Nature Medicine*. 18(9): 1429-35.
- Deng J, Carbajal L, Evaul K, Rasar M, **Jamnongjit M**, Hammes SR. (2008) Nongenomic steroid-triggered oocyte maturation: of mice and frogs. *Steroids*. 74(7):595-601.
- Michael SK, Surks HK, Wang Y, Zhu Y, Blanton R, **Jamnongjit M**, Aronovitz M, Baur W, Ohtani K, Wilkerson MK, Bonev AD, Nelson MT, Karas RH, Mendelsohn ME. (2008) High blood pressure arising from a defect in vascular function. *Proc Natl Acad Sci USA*. 105(18):6702-7.
- Evaul K, **Jamnongjit M**, Bhagavath B, Hammes SR. (2006) Androgens and progesterone rapidly attenuate plasma membrane G $\beta\gamma$ -mediated signaling in *Xenopus Laevis* oocytes by signaling through either classical androgen or progesterone receptors. *Molecular Endocrinology*. 21(1):186-96.
- VanLandingham JW, Cutler SM, Virmani S, Hoffman SW, Covey DF, Krishnan K, Hammes SR, **Jamnongjit M**, Stein D. (2006) The enantiomer of progesterone acts as a molecular neuroprotectant after traumatic brain injury. *Neuropharmacology*. 51(6):1078-85.
- **Jamnongjit M**, Hammes, SR. (2006) Ovarian steroidogenesis: the good, the bad, and the ugly. *Cell Cycle*. 5(11): 1178-1183.
- **Jamnongjit M**, Gill A, Hammes SR. (2005) Epidermal growth factor receptor signaling is required for normal ovarian steroidogenesis and oocyte maturation. *Proc Natl Acad Sci USA*. 102(45): 16257-62.
- **Jamnongjit M**, Hammes SR. (2005) Oocyte maturation: the coming of age of a germ cell. *Seminars in Reproductive Medicine*. 23(3): 234-41.
- White SN, **Jamnongjit M**, Gill, A, Lutz LB, Hammes SR. (2005) Specific modulation of nongenomic androgen signaling in the ovary. *Steroids*. 70(5-7): 352-60.
- Gill A, **Jamnongjit M**, Hammes SR. (2004) Androgens promote maturation and signaling in mouse oocytes independent of transcription: a release of inhibition model for mammalian oocyte meiosis. *Molecular Endocrinology*. 18(1): 97-104.

- Lutz LB, **Jamnongjit M**, Yang WH, Jahani D, Gill A, Hammes SR. (2003) Selective modulation of genomic and nongenomic androgen responses by androgen receptor ligands. *Molecular Endocrinology*. 17 (6): 1106-16.

Presentations

- **Jamnongjit M**, Krust A, Metzger D, Chambon P, Mendelsohn M. Mice with an inducible, smooth muscle cell-specific deletion of estrogen receptor α exhibit loss of estrogen protection in response to vascular injury. Presented at the European Molecular Biology Organization: Nuclear Receptors Conference, Dubrovnik, Croatia. (2009).
- **Jamnongjit M**, Krust A, Metzger D, Chambon P, Mendelsohn M. Characterization of mice with inducible, vascular smooth muscle cell-specific deletion of estrogen receptor α or estrogen receptor β . Presented at the Keystone Symposia: Nuclear Receptors: Steroid Sisters, Whistler, British Columbia. (2008).
- **Jamnongjit M**, Sasaki G, Parker KL, Hammes SR. Epidermal growth factor receptor (EGFR) signaling is necessary for gonadotropin-induced steroidogenesis. Presented at the 88th Annual Meeting of the Endocrine Society, Boston, MA. (2006).
- **Jamnongjit M**, Gill A, Hammes SR. Sex steroids are potent and rapid triggers of mouse oocyte maturation in ovarian follicles. Presented at the 38th Annual Meeting of the Society for the Study of Reproduction, Quebec City, Quebec. (2005).
- **Jamnongjit M**, Hammes, SR. Androgens and progesterones are equally potent activators of classical androgen and progesterone receptors in *Xenopus Leavis*: Evidence that both Receptors Mediate Nongenomic Steroid-Mediated Oocyte Maturation. Presented at the 87th Annual Meeting of the Endocrine Society, San Diego, CA. (2005).
- **Jamnongjit M**, Gill A, Hammes SR. Nongenomic effects of sex steroids and their receptors on mammalian oocyte maturation. Presented at the 86th Annual Endocrine Society Meeting, New Orleans, LA. (2004).

Awards and Honors

Presentation Award – European Molecular Biology Organization, Sep. 2009
 Travel Grant – The Endocrine Society, Jun. 2006
 Travel Grant – The Endocrine Society, Jun 2004
 NRSA Training Grant – UTSW Dept. of Pharmacology, Mar. 2003 – Aug 2006

Affiliations

American Heart Association
 Society for the Study of Reproduction
 The Endocrine Society
 Phi Beta Kappa