



Dr. Wenbo Yan

Assistant Professor of Biology

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Education

Ph.D. Rutgers University
B.S. Beijing University

Areas of Specialization/Expertise

Diabetes, Obesity, and Metabolic Regulation
Molecular and Cellular Endocrinology
Reproductive Physiology

Current Areas of Research

Diabetes, Obesity, and Metabolic Regulation
Molecular and Cellular Endocrinology

Courses Taught**Nyack College**

2011 General Biology, lecturer
2011 Human Biology, lecturer

Rutgers University

2003 Spring *Animal Microtechniques and Tissue Culture*, teaching assistant
2002 Fall *Animal Reproduction*, teaching assistant / lecturer
2002 Fall *Animal Science*, teaching assistant
2002 Spring *Animal Microtechniques and Tissue Culture*, teaching assistant
2001 Fall *Animal Nutrition*, laboratory instructor
2001 Spring *Animal Microtechniques and Tissue Culture*, teaching assistant
2000 Fall *Animal Nutrition*, laboratory instructor / teaching assistant
1999 Fall-2000 Spring *Systems Physiology*, laboratory instructor

Vanderbilt University

1998 Fall-1999 Spring
General Biology, Laboratory Instructor

Membership in Professional Societies

Sigma Xi Society, 2007-present
American Diabetes Association, 2007-present
Endocrine Society, 2001-present
Society for the Study of Reproduction, 2001-present

Publications & Presentations

Publications

Yan W, Daneshvar F, and Dempsey PJ. HB-EGF Deficient Mice Display Glucose Intolerance, Lower Pancreatic Insulin Content and Beta Cell Dysfunction. *Diabetes (submitted)*

Wicksteed B, Brissova M, Yan W, Opland DM, Plank JL, Reinert RL, Dickson LM, Tamarina NA, Philipson LH, Shostak A, Bernal-Mizrachi E, Roe MW, Labosky PA, Myers, Jr. MG, Gannon M, Powers AC, and Dempsey PJ. Conditional gene targeting in mouse pancreatic β -cells: Analysis of ectopic Cre transgene expression in the brain. *Diabetes (In Press)*

Gelling RW, Yan W, Al-noori S, Pardini Aaron, Morton GJ, Ogimoto K, Schwartz MW, and Dempsey PJ. Deficiency of TNF α Converting Enzyme (TACE/ADAM17) Causes a Lean, Hypermetabolic Phenotype in Mice. *Endocrinology 2008 Dec; 149: 6053-6064.*

Moss ML, Stoeck A, Yan W and Dempsey PJ. ADAM10 as a target for anti-cancer therapy. *Current Pharmaceutical Biotechnology 2008 Feb;9(1):2-8*

Yan W, Chen J, Wiley AA, Crean-Harris BD, Bartol FF and Bagnell CA. Relaxin and estrogen affect estrogen receptor- α , vascular endothelial growth factor and relaxin receptor expression in the neonatal porcine uterus and cervix. *Reproduction 2008 135:705-712*

Ho T, Yan W and Bagnell CA. Relaxin-induced matrix metalloproteinase-9 expression is associated with activation of the NF- κ B pathway in human THP-1 cells. *J Leukoc Biol. 2007 May;81(5):1303-10*

Yan W, Wiley AA, Bathgate RA, Frankshun A, Lasano S, Steinetz BG, Bagnell CA and Bartol FF. Expression of Igr7 and Igr8 by neonatal porcine uterine tissues and transmission of milk-borne relaxin into the neonatal circulation by suckling. *Endocrinology 2006 Sep; 147(9):4303-10.*

Masters RA, Crean BD, Yan W, Moss AG, Wiley AA, Bagnell CA, and Bartol FF. Neonatal Porcine Endometrial Development and Epithelial Proliferation Affected by Age and Exposure to Estrogen and Relaxin. *Domestic Animal Endocrinology 2007 Oct;33(3):335-46*

Yan W, Ryan PL, Bartol FF and Bagnell CA. Uterotrophic effects of relaxin are dependent on estrogen receptor activation in neonatal gilts. *Reproduction 2006 May;131(5):943-50.*

Yan W, Wiley AA, Bartol FF and Bagnell CA. Tissue-specific response to relaxin in the reproductive tract of neonatal gilts. *Ann N Y Acad Sci. 2005 May;1041:132-5.*

Bagnell CA, Yan W, Wiley AA and Bartol FF. Effects of relaxin on neonatal porcine uterine growth and development. *Ann N Y Acad Sci. 2005 May;1041:248-55.*

Abstracts and Presentations:

Yan W, Heike Muenzberg, Dempsey PJ. Pdx-Cre ErbB4^{flox/flox} Mice Become Obese with Age and Display Decreased Ambulatory Activity and Defective Thermoregulation. *69th Annual Scientific Conference for the American Diabetes Association*, New Orleans, LA, 2009

Yan W and Dempsey PJ. Pancreatic-specific Deletion of the ErbB4 Receptor Causes Defects in Islet Function. *Michigan Gastrointestinal Peptide Research Center Annual Symposium*, Ann Arbor, MI, 2009

Yan W and Dempsey PJ. Disruption of ErbB4 Receptor Expression in the Pancreas Causes Defects in Islet Function. *19th Annual Pediatric Research Symposium, University of Michigan*, Ann Arbor, MI, 2008

Yan W, Gillispie PA, Dempsey PJ. HB-EGF Deficient Mice Display Beta Cell Dysfunction, Glucose Intolerance and Increased Sensitivity to Low Dose Streptozotocin Treatment. *68th Annual Scientific Conference for the American Diabetes Association*, San Francisco, CA, 2008

Yan W, Gillispie PA, Dempsey PJ. Pancreatic-specific Deletion of the ErbB4 Receptor Causes Defects in Islet Function. *68th Annual Scientific Conference for the American Diabetes Association*, San Francisco, CA, 2008

Yan W, Gillispie PA, Dempsey PJ. HB-EGF Deficient Mice Display Glucose Intolerance and Beta Cell Dysfunction. *1st Upper Midwest Islet Club Annual Conference*, Nashville, TN, 2008

Yan W, Gillispie PA, Dempsey PJ. Disruption of ErbB4 Receptor Expression in the Pancreas Causes Defects in Beta Cell Function and Islet Morphology. *1st Upper Midwest Islet Club Annual Conference*, Nashville, TN, 2008

Ho T, Santora K, Yan W, Visco D and Bagnell CA. Relaxin and estrogen regulate the bone remodeling markers, receptor activator of nuclear factor- κ B ligand (RANKL) and osteoprotegerin (OPG), in rat adjuvant-induced arthritis. *39th Annual Meeting of the Society for the Study of Reproduction*, Omaha, NE, 2006

Crean BD, Masters RA, Yan W, Wiley AA, Bagnell CA and Bartol FF. Porcine uterine expression of Msx1 and Msx2: effects of relaxin, estrogen and ICI 182,780 in neonatal endometrium. *39th Annual Meeting of the Society for the Study of Reproduction*, Omaha, NE, 2006

Kavoussi SK, Lee JS, Puliur MS, Yan W, and Padmanabhan V. Prenatal androgen exposure programs insulin sensitivity in the sheep model of PCOS. *53rd Annual Scientific meeting of Society for Gynecologic Investigation*, Toronto, Canada, 2006

Yan W, Lasano S, Steinetz BG, Bartol FF and Bagnell CA. Presence of relaxin in the milk of lactating sows and its transmission to neonatal pigs via suckling. *38th Annual Meeting of the Society for the Study of Reproduction*, Quebec City, Canada, 2005

Ho T, Yan W, Wiley AA, Bartol FF and Bagnell CA. Evolution of the *hoxa/wnt* axis and estrogen regulation of *wnt7a* expression in the neonatal porcine uterus. *38th Annual Meeting of the Society for the Study of Reproduction*, Quebec City, Canada, 2005

Masters RA, Crean BD, Yan W, Wiley AA, Bagnell CA, Bartol FF. Distribution of active beta-catenin in neonatal porcine uter affected by age and exposure to estrogen and relaxin. *38th Annual Meeting of the Society for the Study of Reproduction*, Quebec City, Canada, 2005

Yan W. Relaxin action in the reproductive tract: interaction with estrogen signaling pathways. *Ph.D. Dissertation Presentation*, New Brunswick, NJ, 2005

Yan W, Wiley AA, Bartol FF and Bagnell CA. Tissue-specific LGR7 expression and regulation by relaxin in the reproductive tract of neonatal gilts. *Relaxin 2004- the 4th International Conference on Relaxin and Related Peptides*, Jackson Hole, WY, 2004

Bagnell CA, Yan W, Wiley AA and Bartol FF. Direct and indirect effects of relaxin on neonatal porcine uterine growth and development. *Relaxin 2004- the 4th International Conference on Relaxin and Related Peptides*, Jackson Hole, WY, 2004

Yan W, Wiley AA, Bartol FF and Bagnell CA. Tissue-specific response to relaxin in the reproductive tract of neonatal gilts: LGR7 expression and regulation by relaxin. *Gordon Research Conference on Reproductive Tract Biology*, New London, CT, 2004

Yan W, Wiley AA, Bartol FF and Bagnell CA. Effects of relaxin on estrogen receptor and vascular endothelial growth factor expression in the cervix and vagina of neonatal pigs. *Annual Conference of the Society for Theriogenology*, Columbus, OH, 2003

Yan W, Ryan PL, Bagnell CA. Tissue-specific effects of relaxin on the reproductive tract of neonatal pigs: Estrogen receptor-dependent and independent actions. *35th Annual Meeting of the Society for the Study of Reproduction*, Baltimore, MD, 2002