

CURRICULUM VITAE

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EDUCATION

1992 – 1997 Harbin Medical University, Harbin, China. Bachelor of Medicine (M.D.)
1997 – 2000 Center of Disease Control and Prevention of China, Beijing, China. M.S.

CURRENT POSITION

2012 – present Assistant Professor
Reproductive Biology and Perinatal Laboratory
Obstetrics and Gynecology Department, DUMS

2016 – present Adjunct Assistant Professor
Duke Global Health Institute, Duke University.

2010 – present Director and Instructor, Duke Molecular Biology Techniques Workshop

2017 – present Professor and Principle Investigator
Shanghai Jiao Tong University School of Medicine, Xinhua Hospital.

CURRENT RESEARCH SUPPORT (Not including finished ones)

Molecular Bio Techniques Workshop Fund (Feng, PI) 01/01/2011-Present

NIH/FIC 1K01TW010828-01 (Feng, PI) 09/25/2017-06/30/2022
Title: Effects of perfluorobutane sulfonate (PFBS) exposure on adverse pregnancy outcomes and fetal development.

MEDx Biomedical Research Fund (Feng, PI) 04/01/2017-09/31/2018
Title: The development of a novel platform closely mimicking the human placental barrier.

Duke Global Health Institute GEM Pilot Grant (Feng, PI) 01/31/2017-07/30/2018
Title: Maternal exposure to e-waste in Guiyu, China and birth outcomes.

Ob/Gyn Research Fund (Feng, PI) 01/01/2015-Present
Title: Understanding the pathogenicity of *U. parvum* among women and infants.

PROFESSIONAL SOCIETIES AND AFFILIATIONS

2007-Present Member, Society for Reproductive Investigation (SRI),
2007-Present Member, Triangle Consortium for Reproductive Biology.
2015-Present Member, Duke School of Medicine Student Admission Committee.
2017-Present Member, Duke OB/GYN Diversity and Inclusion Committee
2017-Present Committee Member, PREBIC, USA

Journal peer reviewer: Reproductive Sciences, BMC Pregnancy and Childbirth, Journal of Obstetrics and Gynecology Research, Journal of Exposure Science and Environmental Epidemiology. Austin Gynecology Case Report. Human Genetics. Environmental Health Perspectives.

Lead guest Editor: International Journal of Endocrinology.

PEER-REVIEWED PUBLICATIONS (* indicates corresponding author)

- ***Feng L**, Allen TK, Nazzal M, Murtha AP. (2018). Roles of Progesterone Receptor Membrane Component 1 in Oxidative Stress-Induced Aging in Chorion Cells. **Reprod Sci**, accepted.
- ***Feng L**, Allen TK, Marinello WP, Murtha AP. (2018) PPROM: A Novel Mechanism Linking Infection and Coagulation System in the Genesis of Membrane of Rupture. **Am J Obstet Gynecol**, Revision.
- Ye, Y, Tang Y, Zhou Q, Xiong Y, ***Feng L**, *Li X. (2018) Bisphenol A exposure alters placentation and causes preeclampsia-like features in mice involving in the reprogramming of DNA methylation of WNT-2. **Environmental Health Perspective**, Revision.
- Marinello WP, Huang R, Zhang J, ***Feng L**. (2018) New insights into the disruption of cytotrophoblast cell proliferation and invasion by perfluorobutane sulfonate (PFBS) exposure. **Toxicology and Applied Pharmacology**. Under Review.
- Ye Y, Zhou Q, **Feng L**, Wu J, Xiong Y, *Li X. (2017, Dec) Maternal serum bisphenol A levels and risk of pre-eclampsia: a nested-control study. **Eur J Public Health**. doi:10.1093/eurpub/ckx148.
- Wang X, *Ouyang F, **Feng L**, Wang X, Liu Z, Zhang J (2017). Maternal urinary triclosan concentration in relation to maternal and neonatal thyroid hormone levels: a prospective study. **Environmental Health Perspective** 125, 067017.
- Smrtka MP, **Feng L**, Murtha AP, *Grotegut CA. (2017). Thrombin-Induced Inflammation in Human Decidual Cells Is Not Affected By Heparin. **Reprod Sci**. 24:1154-63.
- Ju R, Siddiqui N, Garrett J, **Feng L**, Heit M. (2017). A Validated Translation of a Survey for Measuring Incontinence Knowledge in Chinese-speaking American Immigrants. **Int Urogynecol J**. Jun; 28(6):851-6.
- ***Feng L**, Ouyang F, Liu L, Wang X, Wang X, Li Y, Murtha AP, Shen H, Zhang J and Zhang J (2016). Levels of urinary metabolites of organophosphate flame retardants in pregnant women in Shanghai. **Journal of Environmental and public health**, 9416054, doi:10, 1155/2016/9416054.
- ***Feng L**, Ransom CE, Nazzal MK, Allen TK, Kuchibhatla M, Potts LC, Seed PC, Murtha AP. (2016). The role of progesterone and a novel progesterone receptor, progesterone receptor membrane component 1 (PGRMC1), in the inflammatory response of fetal membranes to *Ureaplasma parvum* infection. **PLoS one** 2016;11:e0168102.
- ***Feng L**, Jayes FL, Johnson LNC, Schomberg DW, Leppert PC. (2016). Biochemical Pathways and Myometrial Cell Differentiation Leading to Nodule Formation Containing Collagen and Fibronectin. **Curr Protein Pept Sci** 18, 155-166.
- ***Feng L**, Desravines N, Nazzal MK, Pryor KP, Soderblom EJ, et al. (2016) Characterization of Progesterone Receptor Membrane Component 1 in Peripheral Blood Mononuclear Cells and Plasma during Pregnancy. **Adv Mol Diag** 1:109.
- Meng Y, Murtha AP, ***Feng L**. (2016). Progesterone, inflammatory cytokine (TNF- α) and oxidative stress (H₂O₂) regulate progesterone receptor membrane component 1 (PGRMC1) expression in fetal membrane cells. **Reprod Sci** 23, 1168-1178.
- Potts LC, **Feng L**, Seed PC, Jayes FL, Kuchibhatla M, Antczak B, Nazzal MK, *Murtha AP. (2016) Inflammatory Response of Human Gestational Membranes to *Ureaplasma parvum* Using a Novel Dual-Chamber Tissue Explant System. **Biol Reprod** 94, 119.

Allen TK, **Feng L**, Nazzal M, Grotegut CA, Buhimschi IA, *Murtha AP. (2015). The Effect of Progestins on Tumor Necrosis Factor α -Induced Matrix Metalloproteinase-9 Activity and Gene Expression in Human Primary Amnion and Chorion Cells In Vitro. **Anesth Analg.** 120(5):1085-94.

***Feng L**, Antczak BC, Lan L, Grotegut CA, Thompson JL, Allen TK, Murtha AP. (2014). Progesterone receptor membrane component 1 (PGRMC1) expression in fetal membranes among women with preterm premature rupture of the membranes (PPROM). **Placenta.** 35(5):331-3.

Fortner KB, Grotegut CA, Ransom CE, Bentley RC, **Feng L**, Lan L, Heine RP, Seed PC, *Murtha AP. (2014). Bacteria localization and chorion thinning among preterm premature rupture of membranes. **PLoS One.** 9(1):e83338.

*Allen TK, **Feng L**, Grotegut CA, Murtha AP. (2014). Progesterone Receptor Membrane Component 1 As the Mediator of the Inhibitory Effect of Progestins on Cytokine-Induced Matrix Metalloproteinase 9 Activity In Vitro. **Reprod Sci.** 21(2):260-8.

Kraus DM, **Feng L**, Heine RP, Brown HL, Caron KM, Murtha AP, and *Grotegut CA. (2014). Cigarette Smoke-Induced Placental Adrenomedullin Expression and Trophoblast Cell Invasion. **Reprod Sci.** 21(1):63-71.

Huang L, Liu J, **Feng L**, Chen Y, Zhang J, *Wang W. (2014). Maternal pre-pregnancy obesity is associated with higher risk of placental pathological lesions. **Placenta.** 35(8):563-9.

*Grotegut CA, Gunatilake RP, **Feng L**, Heine RP, Murtha AP. (2013). The influence of maternal body mass index on myometrial oxytocin receptor expression in pregnancy. **Reprod Sci.** 20(12):1471-7.

Beiswenger TR, **Feng L**, Brown HL, Heine PR, Murtha AP, *Grotegut CA. (2012). The effect of cigarette smoke extract on trophoblast cell viability and migration: the role of adrenomedullin. **Reprod Sci.** 19(5):526-33

Roeder H, Jayes F, **Feng L**, *Leppert PC. (2011). CDB-4124 does not cause apoptosis in cultured fibroid cells. **Reprod Sci.** 18(9):850-7.

*Grotegut CA, Feng L, Mao L, Heine RP, Murtha AP, Rockman HA. (2010). Beta-arrestin mediates oxytocin receptor signaling which regulates uterine contraction and cellular migration. **Am J Physiol Endocrinol Metab.** 300(3):E468-77

Wu J, **Feng L**, *Hsieh TS. (2010). Topoisomerase III α is required for the maintenance of mitochondrial genome and male germline stem cell. **Proc Natl Acad Sci U S A.** 107(14): 6228-33.

Jung SH, Sohn I, George SL, **Feng L**, *Leppert PC. (2009). Sample size calculation for microarray experiments with blocked one-way design. *BMC Bioinformatics.* 10:164.

Wu J, Marean-Reardon C, Christopher C, **Feng L**, and *Hsieh TS. (2008). Drosophila homologue of Rothmund-Thomson syndrome gene: essential function in DNA replication during development. **Dev Biol.** 323(1):130-42.

*Murtha AP, **Feng L**, Yonish AB, Leppert PC, Schomberg DW. (2007). Progesterone protects fetal chorion and maternal deciduas cells from calcium-induced death. **Am J Obstet Gynecol.** 196 (3): 257.

Behera MA, **Feng L**, Yonish B, Catherino. W, Jung SH, *Leppert PC. (2007). Thrombospondin-1 and Thrombospondin-2 mRNA and TSP-1 and TSP-2 protein expression in uterine fibroid and correlation to the genes COL1A1 and COL3A1 and to the Collagen cross-link hydroxyproline. **Reprod Sci.** (8 Suppl):63-76.

Feng L, Park SH, Reif JH, *Yan H. (2003). A two-state DNA lattice switched by DNA nanoactuator. **Angew Chem Int Ed Engl.** 42(36): 4342-6.

Yan H, **Feng L**, Labean TH, *Reif JH. (2003). Parallel molecular computations of pairwise exclusive-or (XOR) using DNA "string tile" self-assembly. **J Am Chem Soc.** 125(47):14246-7.

Yan H, Labean TH, **Feng L**, *Reif JH. (2003). Directed nucleation assembly of DNA tile complexes for barcode-patterned lattices. **Proc Natl Acad Sci U S A.** 100(14):8103-8.