

Word Research Laboratory

Department of Obstetrics & Gynecology

Selected Publications

- Boreham, M. K., Wai, C.Y., Miller, R.T., Schaffer, J.I., and **Word, R.A.** (2002) Morphometric analysis of smooth muscle in the anterior vaginal wall of women with pelvic organ prolapse. [Am J Obstet Gynecol 187:56-63](#)
- Wai, C. Y., Boreham, M. K., Liehr, P., Schaffer, J. I., and **Word, R.A.** (2003) Effect of periurethral denervation on function of the female urethra: Role of nitric oxide. [Am J Obstet Gynecol 189:1637-45](#).
- Wai, C. Y., Liehr, P., Boreham, M. K., Schaffer, J. I., **Word, R.A.** (2004) Effect of periurethral denervation on smooth muscles of the lower urinary tract. [Am J Obstet Gynecol 191\(6\): 1950-1960](#).
- Havelock JC, Keller P, Muleba N, Mayhew BA, Casey BM, Rainey WE, **Word RA.** (2005) Human myometrial gene expression before and during parturition. [Biol Reprod 72\(3\):707-19](#)
- Word, R.A.**, Landrum, C.P., Timmons, B.C., Young S.G., and Mahendroo, M.S. (2005) Transgene Insertion on Mouse Chromosome 6 Impairs Function of the Uterine Cervix and Causes Failure of Parturition. [Biol Reprod 73: 1046-56](#)
- Drewes, P.G., Yanagisawa, H., Starcher, B., Hornstra, I., Csiszar, K., Marinis, S.I., Keller, P., and **Word, R.A.** (2007) Pelvic organ prolapse in fibulin-5 knockout mice: Pregnancy-induced changes in elastic fiber homeostasis in mouse vagina. [Am J Pathol 170:578-89](#)
- Word, R.A.** and Li, Xiang-Hong (2006) Cervical Function During Pregnancy and Parturition. Petraglia, Strauss, Gabbe & Weiss (ed): *Preterm Birth: Mechanisms, Mediators, Prediction & Interventions*. Taylor & Francis Medical Books, Abingdon OX, UK
- Word, R.A.**, Li, Xiang-Hong, Hnat, M., and Carrick, K. (2007) Dynamics Of Cervical Remodeling During Pregnancy And Parturition: Mechanisms And Current Concepts Carr, B.R. & Word, R.A (ed) [Parturition: Current Concepts - Seminars in Reproductive Medicine](#).
- Wieslander CK, Marinis SI, Drewes PG, Keller PW, Acevedo JF, and **Word RA.** (2008) Regulation of elastolytic proteases in the mouse vagina during pregnancy, parturition, and the puerperium [Biol Reprod 78\(3\):521-8](#).

Wai CY, Miller RT, and **Word, RA.** (2008) Effect of prolonged vaginal distention and sphincter transection on physiologic function of the external anal sphincter in an animal model. [*Obstet Gynecol* 111:332-40](#)

Rahn DD, Ruff MD, Brown SA, Tibbals HF, **Word RA.** (2008) Biomechanical properties of the vaginal wall: effect of pregnancy, elastic fiber deficiency, and pelvic organ prolapse. [*Am J Obstet Gynecol* 198\(5\):590 e1-6](#)

Wai CY, Rahn DD, White AB, and **Word RA.** (2008) Recovery of external anal sphincter contractile function after prolonged vaginal distention or sphincter transection in an animal model. [*Obstet Gynecol* 111 \(6\): 1426-34](#)

Andersson S, Minjarez D, Yost NP, and **Word RA.** (2008) Estrogen and progesterone metabolism in the cervix during pregnancy and parturition. [*J Clin Endocrin Metab* 93:2366-74](#)

Rahn D.D., Acevedo J.F., **Word RA.** (2008) Effect of vaginal distention on elastic fiber synthesis and matrix degradation in the vaginal wall: potential role in the pathogenesis of pelvic organ prolapse. [*Am J Physiol Regul Integr Comp Physiol* 295: R1351-8.](#)

Rahn DD, Acevedo JF, Keller PW, Davis EC, Marmorstein LY, and **Word RA.** (2008) Failure of pelvic organ support in mice deficient in fibulin-3. [*Am J Pathol* 174:206-15.](#)

Wieslander, CK, Rahn, DD, McIntire, DD, Acevedo, JF, Drewes, PG, Yanagisawa, H, and **Word, RA.** (2009) Quantification of Pelvic Organ Prolapse in Mice: Vaginal Protease Activity Precedes Increased MOPQ Scores in Fibulin-5 Knockout Mice. [*Biol Reprod* 80:407-14](#)

Rahn DD, White AB, Miller RT, **Word RA,** Wai CY. (2009) Effects of pregnancy, parturition, and anal sphincter transection on function of the external anal sphincter in an animal model. [*Obstet Gynecol* 113:909-16](#)

Wai CY, **Word RA.** (2009) Contractile properties of the denervated external anal sphincter. [*Am J Obstet Gynecol* \(6\):653.e1-7.](#)