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## World of Reproductive Biology

Charlotte Schubert

### Demethylating the Male Brain

Biol Reprod July 2015 93 (1) 1, 1-1; published ahead of print April 1, 2015, doi:10.1095/biolreprod.115.130484

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Charlotte Schubert

### Sidelining a Side Effect of Long-Acting Contraceptives

Biol Reprod July 2015 93 (1) 2, 1-1; published ahead of print April 8, 2015, doi:10.1095/biolreprod.115.130633

[Full Text](#) [Full Text \(PDF\)](#)

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### Mom's Genes Affect Aneuploidy Rates in Embryos

Biol Reprod July 2015 93 (1) 3, 1-1; published ahead of print April 16, 2015, doi:10.1095/biolreprod.115.130906

[Full Text](#) [Full Text \(PDF\)](#)

Charlotte Schubert

### Viruses from Within

Biol Reprod July 2015 93 (1) 4, 1-1; published ahead of print April 22, 2015, doi:10.1095/biolreprod.115.131060

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### Embryo Eats Mom

Biol Reprod July 2015 93 (1) 5, 1-1; published ahead of print April 29, 2015, doi:10.1095/biolreprod.115.131235

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## Minireview

- Iurie Roatesi, Beatrice Mihaela Radu, Dragos Cretoiu, and Sanda Maria Cretoiu

### Uterine Telocytes: A Review of Current Knowledge

Biol Reprod July 2015 93 (1) 10, 1-13; published ahead of print February 18, 2015, doi:10.1095/biolreprod.114.125906

[Abstract](#) [Full Text](#) [Full Text \(PDF\)](#) [Author Biosketches](#)  
[OPEN ACCESS ARTICLE](#)

**Summary:** We present here the most recent findings on uterine telocytes, including main features and locations and the principal hypotheses about their functions under normal and pathological conditions in the pregnant and nonpregnant uterus.

- Shreya Patel, Changqing Zhou, Saniya Rattan, and Jodi A. Flaws

### Effects of Endocrine-Disrupting Chemicals on the Ovary

Biol Reprod July 2015 93 (1) 20, 1-9; published ahead of print June 10, 2015, doi:10.1095/biolreprod.115.130336

[Abstract](#) [Full Text](#) [Full Text \(PDF\)](#) [Author Biosketches](#)

**Summary:** This review discusses the effects of selected endocrine disruptors on the adult mammalian ovary.

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## Research Articles

### Female Reproductive Tract

- Lan Hai, Stacey R. McGee, Amanda C. Rabideau, Marilène Paquet, and Prema Narayan

### Infertility in Female Mice with a Gain-of-Function Mutation in the Luteinizing Hormone Receptor Is Due to Irregular Estrous Cyclicity, Anovulation, Hormonal Alterations, and Polycystic Ovaries

Biol Reprod July 2015 93 (1) 16, 1-11; published ahead of print June 3, 2015, doi:10.1095/biolreprod.115.129072

[Abstract](#) [Full Text](#) [Full Text \(PDF\)](#) [Supplemental Data](#)

**Summary:** Constitutive activity of the luteinizing hormone receptor causes precocious puberty and infertility in female mice; a phenotype that is different from that seen in women.

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### Gamete Biology

- Chunmin Wang, Lu Zhang, Laurie A. Jaeger, and Zoltan Machaty
- ### Store-Operated $Ca^{2+}$ Entry Sustains the Fertilization $Ca^{2+}$ Signal in Pig Eggs

Biol Reprod July 2015 93 (1) 25, 1-8; published ahead of print June 10, 2015, doi:10.1095/biolreprod.114.126151

[Abstract](#) [Full Text](#) [Full Text \(PDF\)](#)

**Summary:** The prolonged series of calcium oscillations in pig eggs during fertilization is sustained by calcium entry that is stimulated by depletion of the intracellular calcium stores.

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#### Male Reproductive Tract

- Kevin R.P. Lyon, Emy Bosseboeuf, and A. Wayne Vogl  
**An Alternative Model of Tubulobulbar Complex Internalization During Junction Remodeling in the Seminiferous Epithelium of the Rat Testis**  
Biol Reprod July 2015 93 (1) 12, 1-11; published ahead of print June 3, 2015, doi:10.1095/biolreprod.115.128942  
[Abstract](#) [Full Text](#) [Full Text \(PDF\)](#)  
[OPEN ACCESS ARTICLE](#)
- Summary:** Cytochalasin D experiments suggest that actin disassembly allows the formation and expansion of tubulobulbar bulbs and that the structures are internalized by separation from the plasma membranes at one scission site.
- Jose M. Garcia, Ji-an Chen, Bobby Guillory, Lawrence A. Donehower, Roy G. Smith, and Dolores J. Lamb  
**Ghrelin Prevents Cisplatin-Induced Testicular Damage by Facilitating Repair of DNA Double Strand Breaks Through Activation of p53 in Mice**  
Biol Reprod July 2015 93 (1) 24, 1-8; published ahead of print May 27, 2015, doi:10.1095/biolreprod.115.129759  
[Abstract](#) [Full Text](#) [Full Text \(PDF\)](#) [Supplemental Data](#)
- Summary:** Cisplatin induces germ cell damage through inhibition of p53-dependent DNA repair mechanisms, and ghrelin administration prevents these sequelae by restoring the normal expression of these p53-dependent pathways.

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#### Ovary

- Elizabeth C. Bowdridge, Madhusudan P. Goravanahally, E. Keith Inskeep, and Jorge A. Flores  
**Activation of Adenosine Monophosphate-Activated Protein Kinase Is an Additional Mechanism That Participates in Mediating Inhibitory Actions of Prostaglandin F<sub>2</sub>α in Mature, but Not Developing, Bovine Corpora Lutea**  
Biol Reprod July 2015 93 (1) 7, 1-7; published ahead of print May 13, 2015, doi:10.1095/biolreprod.115.129411  
[Abstract](#) [Full Text](#) [Full Text \(PDF\)](#)  
[OPEN ACCESS ARTICLE](#)
- Summary:** AMPK, which appears to be part of the signal transduction mechanism when FP is activated, affected progesterone production in mature, but not developing, bovine CL.
- Keqin Yan, Lijing Cheng, Peng Liu, Zhenghui Liu, Shutao Zhao, Weiwei Zhu, Qing Wang, Han Wu, and Daishu Han  
**Polyinosinic-Polycytidylic Acid Perturbs Ovarian Functions Through Toll-Like Receptor 3-Mediated Tumor Necrosis Factor A Production in Female Mice**  
Biol Reprod July 2015 93 (1) 11, 1-9; published ahead of print June 3, 2015, doi:10.1095/biolreprod.115.128348  
[Abstract](#) [Full Text](#) [Full Text \(PDF\)](#)
- Summary:** This study provides novel insights into mechanisms underlying ovarian dysfunctions due to viral infection.
- Titaree Laoharatchathathanin, Ryota Terashima, Tomohiro Yonezawa, Shiro Kurusu, and Mitsumori Kawaminami  
**Augmentation of Metastin/Kisspeptin mRNA Expression by the Proestrous Luteinizing Hormone Surge in Granulosa Cells of Rats: Implications for Luteinization**  
Biol Reprod July 2015 93 (1) 15, 1-9; published ahead of print May 20, 2015, doi:10.1095/biolreprod.115.127902  
[Abstract](#) [Full Text](#) [Full Text \(PDF\)](#)
- Summary:** Ovarian expression of kisspeptin in granulosa cells is regulated by the LH surge and may be involved in luteinization.
- Kouji Komatsu, Tomoko Koya, Jingwen Wang, Mamoru Yamashita, Fumitaka Kikkawa, and Akira Iwase  
**Analysis of the Effect of Leukemia Inhibitory Factor on Follicular Growth in Cultured Murine Ovarian Tissue**  
Biol Reprod July 2015 93 (1) 18, 1-8; published ahead of print June 3, 2015, doi:10.1095/biolreprod.115.128421  
[Abstract](#) [Full Text](#) [Full Text \(PDF\)](#) [Supplemental Data](#)
- Summary:** A new culture method reveals that LIF suppresses follicular growth by controlling granulosa cell proliferation.
- Tianyanxin Sun, Melissa E. Pepling, and Francisco J. Diaz  
**Lats1 Deletion Causes Increased Germ Cell Apoptosis and Follicular Cysts in Mouse Ovaries**

Biol Reprod July 2015 93 (1) 22, 1-11; published ahead of print June 3, 2015, doi:10.1095/biolreprod.114.118604

[Abstract](#) [Full Text](#) [Full Text \(PDF\)](#) [Supplemental Data](#)

**Summary:** Hippo signaling is active in the ovary and deletion of *Lats1*, a core component of the pathway, causes an increase in germ cell apoptosis, primordial follicle depletion, and ovarian cysts.

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#### Pituitary

- Ivana Bjelobaba, Marija M. Janjic, Marek Kucka, and Stanko S. Stojilkovic

**Cell Type-Specific Sexual Dimorphism in Rat Pituitary Gene Expression During Maturation**

Biol Reprod July 2015 93 (1) 21, 1-9; published ahead of print June 10, 2015, doi:10.1095/biolreprod.115.129320

[Abstract](#) [Full Text](#) [Full Text \(PDF\)](#)

**Summary:** Comparison of expression profiles of genes coding for rat pituitary hormones during rat development reveals the lineage-specific sexual differences.

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#### Pregnancy

- Qin Xue, Daliao Xiao, and Lubo Zhang

**Estrogen Regulates Angiotensin II Receptor Expression Patterns and Protects the Heart from Ischemic Injury in Female Rats**

Biol Reprod July 2015 93 (1) 6, 1-9; published ahead of print May 13, 2015, doi:10.1095/biolreprod.115.129619

[Abstract](#) [Full Text](#) [Full Text \(PDF\)](#)

**Summary:** Despite the lack of effect of ovarian hormones on the sex dimorphism in fetal programming of heart ischemic vulnerability, a novel mechanism of estrogen in regulating cardiac Agtr1/Agtr2 expression patterns and protecting female hearts against ischemia and reperfusion injury is suggested.

- Hui He, Shuangbo Kong, Fei Liu, Shuang Zhang, Yaling Jiang, Yixin Liao, Yufei Jiang, Qian Li, Bingyan Wang, Zuomin Zhou, Haibin Wang, and Ran Huo

**Rbbp7 Is Required for Uterine Stromal Decidualization in Mice**

Biol Reprod July 2015 93 (1) 13, 1-11; published ahead of print June 3, 2015, doi:10.1095/biolreprod.115.129015

[Abstract](#) [Full Text](#) [Full Text \(PDF\)](#) [Supplemental Data](#)

**Summary:** Rbbp7 is a potentially functional player regulating normal histone acetylation modification and cyclin D3 expression in stromal cells during postimplantation decidual development.

- Aneta Dobierzewska, Macarena Palominos, Carlos E. Irrazabal, Marianela Sanchez, Mauricio Lozano, Alejandra Perez-Sepulveda, Lara J. Monteiro, Yara Bun

**NFAT5 Is Up-Regulated by Hypoxia: Possible Implications in Preeclampsia and Intrauterine Growth Restriction**

Biol Reprod July 2015 93 (1) 14, 1-11; published ahead of print May 20, 2015, doi:10.1095/biolreprod.114.124644

[Abstract](#) [Full Text](#) [Full Text \(PDF\)](#)

**Summary:** Hypoxia-dependent activation of NFAT5 in PE and IUGR placentas and trophoblast cells is due to its increased nuclear accumulation/phosphorylation and serves as a separate function to NFAT5 tonicity-dependent pathway.

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#### Reproductive Technology

- Bart Leemans, Bart M. Gadella, Tom A.E. Stout, Sonia Heras, Katrien Smits, Minerva Ferrer-Buitrago, Eline Claes, Björn Heindryckx, Winnok H. De Vos, Hilde

**Procaine Induces Cytokinesis in Horse Oocytes via a pH-Dependent Mechanism**

Biol Reprod July 2015 93 (1) 23, 1-17; published ahead of print June 17, 2015, doi:10.1095/biolreprod.114.127423

[Abstract](#) [Full Text](#) [Full Text \(PDF\)](#)

**Summary:** Procaine does not induce penetration of equine oocytes by activating stallion sperm but instead stimulates cytokinesis of the oocytes via a pH-mediated depolymerization of cortical F-actin.

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#### Testis

- Joshua P. Welborn, Matthew G. Davis, Steven D. Ebers, Genna R. Stodden, Kanako Hayashi, Joseph L. Cheatwood, Manjeet K. Rao, and James A. MacLean I.

**Rhox8 Ablation in the Sertoli Cells Using a Tissue-Specific RNAi Approach Results in Impaired Male Fertility in Mice**

Biol Reprod July 2015 93 (1) 8, 1-14; published ahead of print May 13, 2015, doi:10.1095/biolreprod.114.124834

[Abstract](#) [Full Text](#) [Full Text \(PDF\)](#) [Supplemental Data](#)

**Summary:** Sertoli-specific ablation of RHOX8 resulted in male

subfertility characterized by increased male germ cell death.

- Mickaël Di-Luoffo, Caroline Daems, Francis Bergeron, and Jacques J. Tremblay  
**Novel Targets for the Transcription Factors MEF2 in MA-10 Leydig Cells**

Biol Reprod July 2015 93 (1) 9, 1-12; published ahead of print May 27, 2015, doi:10.1095/biolreprod.114.127761

[Abstract](#) [Full Text](#) [Full Text \(PDF\)](#)

**Summary:** A high throughput transcriptomic analysis of MEF2-depleted Leydig cells reveals a complex gene network regulated by this sexually dimorphic transcription factor.

- Cathryn A. Hogarth, Elizabeth Evans, Jennifer Onken, Travis Kent, Debra Mitchell, Martin Petkovich, and Michael D. Griswold  
**CYP26 Enzymes Are Necessary Within the Postnatal Seminiferous Epithelium for Normal Murine Spermatogenesis**

Biol Reprod July 2015 93 (1) 19, 1-10; published ahead of print June 3, 2015, doi:10.1095/biolreprod.115.129718

[Abstract](#) [Full Text](#) [Full Text \(PDF\)](#) [Supplemental Data](#)

**Summary:** Eliminating both CYP26A1 and CYP26B1 activity in either germ or Sertoli cells induces minor defects in the progression of spermatogenesis.

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#### In Memoriam

John P Versteegen, III and Bruce D Murphy

##### In Memoriam

**Patrick W. Concannon, Ph.D.  
1941–2015**

Biol Reprod July 2015 93 (1) 17, 1-1; published ahead of print June 17, 2015, doi:10.1095/biolreprod.115.132688

[Full Text](#) [Full Text \(PDF\)](#)

**Summary:** Memorial for Dr. Patrick Concannon.