
World of Reproductive Biology

Katie Gerhardt

Marijuana Exposure May Affect Pregnancy Outcomes

Biol Reprod June 2016 94 (6) 130, 1-1; published ahead of print May 4, 2016, doi:10.1095/biolreprod.116.141168

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

Katie Gerhardt

Two to Tango: ER α and Estrogen Balance Cholesterol Metabolism in the Liver

Biol Reprod June 2016 94 (6) 131, 1-1; published ahead of print May 11, 2016, doi:10.1095/biolreprod.116.141838

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

Katie Gerhardt

UPF3 Paralogs Wrestle for Fertility Influence

Biol Reprod June 2016 94 (6) 135, 1-1; published ahead of print May 18, 2016, doi:10.1095/biolreprod.116.141887

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

Commentary

Hongwei Yan

Inhibitory Control of the Brain-Pituitary Reproductive Axis of Male European Sea Bass: Role of Gonadotropin Inhibitory Hormone

Biol Reprod June 2016 94 (6) 126, 1-2; published ahead of print March 23, 2016, doi:10.1095/biolreprod.116.140517

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

Summary: An elegant new study by Paullada-Salmerón and colleagues demonstrate an inhibitory role of GnIH in the Brain-pituitary reproductive axis of the male sea bass.

Caroline E. Gargett and Shanti Gurung

Endometrial Mesenchymal Stem/Stromal Cells, Their Fibroblast Progeny in Endometriosis, and More

Biol Reprod June 2016 94 (6) 129, 1-4; published ahead of print May 4, 2016, doi:10.1095/biolreprod.116.141325

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

Summary: This commentary highlights key findings of the Barragan et al. publication "Human Endometrial Fibroblasts Derived from Mesenchymal Progenitors Inherit Progesterone Resistance and Acquire an Inflammatory Phenotype in the Endometrial Niche in Endometriosis."

Minireview

- Yanzhou Yang, Hoi Hung Cheung, Wai Nok Law, Cheng Zhang, Wai Yee Chan, Xiuying Pei, and Yanrong Wang

New Insights into the Role of Autophagy in Ovarian Cryopreservation by Vitrification

Biol Reprod June 2016 94 (6) 137, 1-6; published ahead of print February 24, 2016, doi:10.1095/biolreprod.115.136374

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

Summary: Autophagy, which is type II programmed cell death, is involved in follicle atresia during ovarian cryopreservation by vitrification.

- Helena Fulka and Fugaku Aoki

Nucleolus Precursor Bodies and Ribosome Biogenesis in Early Mammalian Embryos: Old Theories and New Discoveries

Biol Reprod June 2016 94 (6) 143, 1-8; published ahead of print March 2, 2016, doi:10.1095/biolreprod.115.136093

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

Summary: Nucleolus precursor bodies are not necessary for ribosome biogenesis and nucleologenesis in early embryos.

Research Articles

Embryo

- Kun Zhang, Sandeep K. Rajput, Shaohua Wang, Joseph K. Folger, Jason G. Knott, and George W. Smith

CHD1 Regulates Deposition of Histone Variant H3.3 During Bovine Early Embryonic Development

Biol Reprod June 2016 94 (6) 140, 1-8; published ahead of print May 11, 2016, doi:10.1095/biolreprod.116.138693

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

Summary: CHD1 plays an important role in bovine early embryonic development, which is potentially mediated via regulation of H3.3 deposition.

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Female Reproductive Tract

- Jordán García-Ortega, Francisco M. Pinto, Nicolás Prados, Aixa R. Bello, Teresa A. Almeida, Manuel Fernández-Sánchez, and Luz Cadenas
Expression of Tachykinins and Tachykinin Receptors and Interaction with Kisspeptin in Human Granulosa and Cumulus Cells
Biol Reprod June 2016 94 (6) 124, 1-10; published ahead of print May 4, 2016, doi:10.1095/biolreprod.116.139881
[Abstract](#) [Full Text](#) [Full Text \(PDF\)](#) [Supplemental Data](#)
Summary: The tachykinin family is expressed and acts in coordination with kisspeptin in the human ovary.
- Sevim Yildiz-Arslan, John S. Coon, Thomas J. Hope, and J. Julie Kim
Transcriptional Profiling of Human Endocervical Tissues Reveals Distinct Gene Expression in the Follicular and Luteal Phases of the Menstrual Cycle
Biol Reprod June 2016 94 (6) 138, 1-13; published ahead of print May 11, 2016, doi:10.1095/biolreprod.116.140327
[Abstract](#) [Full Text](#) [Full Text \(PDF\)](#)
Summary: Gene expression is differentially regulated in human endocervix in the follicular and luteal phases of the menstrual cycle, which has implications in its barrier function as it pertains to infection.

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Gamete Biology

- Xue Ma, Qian Pan, Ying Feng, Biswa P. Choudhury, Qianhong Ma, Pascal Gagneux, and Fang Ma
Sialylation Facilitates the Maturation of Mammalian Sperm and Affects Its Survival in Female Uterus
Biol Reprod June 2016 94 (6) 123, 1-10; published ahead of print April 13, 2016, doi:10.1095/biolreprod.115.137810
[Abstract](#) [Full Text](#) [Full Text \(PDF\)](#)
Summary: Some new evidence for the mechanism and function of sialylation (which is very important to sperm maturation and survival in the female uterus) on mammalian sperm, helps us to learn more about the fate of sperm.
- Megan Meredith, Allison H. MacNeil, Jacquetta M. Trasler, and Jay M. Baltz
Growing Mouse Oocytes Transiently Activate Folate Transport via Folate Receptors As They Approach Full Size
Biol Reprod June 2016 94 (6) 125, 1-12; published ahead of print April 27, 2016, doi:10.1095/biolreprod.115.137687
[Abstract](#) [Full Text](#) [Full Text \(PDF\)](#)
Summary: Growing mouse oocytes transport folates, apparently via folate receptors, but this transport is only activated during a very short period of oocyte growth, when they have nearly reached full size, and then is inactivated in fully grown oocytes.
- Tasuku Koike, Takuya Wakai, Yuko Jincho, Akihiko Sakashita, Hisato Kobayashi, Eiji Mizutani, Sayaka Wakayama, Fumihito Miura, Takashi Ito, and Tomohiro Ki
DNA Methylation Errors in Cloned Mouse Sperm by Germ Line Barrier Evasion
Biol Reprod June 2016 94 (6) 128, 1-7; published ahead of print April 20, 2016, doi:10.1095/biolreprod.116.138677
[Abstract](#) [Full Text](#) [Full Text \(PDF\)](#) [Supplemental Data](#)
OPEN ACCESS ARTICLE
Summary: Some epigenetic mutations resulting from embryo cloning are transmitted to the sperm genome by evading the germ line reprogramming barrier.
- Zamira Gibb, Sarah R. Lambourne, Benjamin J. Curry, Sally E. Hall, and Robert J. Aitken
Aldehyde Dehydrogenase Plays a Pivotal Role in the Maintenance of Stallion Sperm Motility
Biol Reprod June 2016 94 (6) 133, 1-11; published ahead of print April 20, 2016, doi:10.1095/biolreprod.116.140509
[Abstract](#) [Full Text](#) [Full Text \(PDF\)](#)
Summary: Measurement of aldehyde dehydrogenase levels in spermatozoa provides insight into the antioxidant defenses of stallion spermatozoa.
- Winifred Mak, Caodi Fang, Tobias Holden, Milana Bockhur Dratver, and Haifan Lin
An Important Role of Pumilio 1 in Regulating the Development of the Mammalian Female Germline
Biol Reprod June 2016 94 (6) 134, 1-11; published ahead of print May 11, 2016, doi:10.1095/biolreprod.115.137497

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

Summary: Mammalian Pumilio 1 plays a role during meiosis of primordial folliculogenesis; a null mutation leads to a reduction in primordial follicle pool size as well as subfertility.

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Immunology

- Amy-Eunice Furcron, Roberto Romero, Tara N. Mial, Amapola Balancio, Bogdan Panaitescu, Sonia S. Hassan, Aashna Sahi, Claire Nord, and Nardhy Gomez-Lop

Human Chorionic Gonadotropin Has Anti-Inflammatory Effects at the Maternal-Fetal Interface and Prevents Endotoxin-Induced Preterm Birth, but Causes Dystocia and Fetal Compromise in Mice

Biol Reprod June 2016 94 (6) 136, 1-13; published ahead of print May 4, 2016, doi:10.1095/biolreprod.116.139345

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

Summary: Human chorionic gonadotropin induces an anti-inflammatory microenvironment at the maternal-fetal interface during late gestation and prevents endotoxin-induced preterm birth but causes dystocia and fetal compromise.

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Male Reproductive Tract

- Cécile Adam and Daniel G. Cyr

Role of Specificity Protein-1 and Activating Protein-2 Transcription Factors in the Regulation of the Gap Junction Protein Beta-2 Gene in the Epididymis of the Rat

Biol Reprod June 2016 94 (6) 120, 1-15; published ahead of print April 6, 2016, doi:10.1095/biolreprod.115.133702

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

Summary: SP1 and TFAP2A transcription factors regulate the transcription of the *Gjb2* gene in the rat epididymis.

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Mechanisms of Hormone Action

- Ana Rocha, Silvia Zanuy, and Ana Gómez

Conserved Anti-Müllerian Hormone: Anti-Müllerian Hormone Type-2 Receptor Specific Interaction and Intracellular Signaling in Teleosts

Biol Reprod June 2016 94 (6) 141, 1-13; published ahead of print May 25, 2016, doi:10.1095/biolreprod.115.137547

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

Summary: In testes, Amh action is directed to the early germ-cell generations and is implicated in all stages of ovarian vitellogenesis and in maturation-ovulation.

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Neuroendocrinology

- José A. Paullada-Salmerón, Mairi Cowan, María Aliaga-Guerrero, Francesca Morano, Silvia Zanuy, and José A. Muñoz-Cueto

Gonadotropin Inhibitory Hormone Down-Regulates the Brain-Pituitary Reproductive Axis of Male European Sea Bass (*Dicentrarchus labrax*)

Biol Reprod June 2016 94 (6) 121, 1-11; published ahead of print March 16, 2016, doi:10.1095/biolreprod.116.139022

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

[OPEN ACCESS ARTICLE](#)

Summary: The central administration of GnIH, in particular, the form sbGnIH-2, inhibits the expression of key reproductive neuroendocrine and pituitary genes and plasma LH levels in a perciform teleost, the European sea bass.

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Ovary

- Samuel Gebremedhn, Dessie Salilew-Wondim, Michael Hoelker, Franca Rings, Christiane Neuhoﬀ, Ernst Tholen, Karl Schellander, and Dawit Tesfaye

MicroRNA-183-96-182 Cluster Regulates Bovine Granulosa Cell Proliferation and Cell Cycle Transition by Coordinately Targeting *FOXO1*

Biol Reprod June 2016 94 (6) 127, 1-11; published ahead of print April 27, 2016, doi:10.1095/biolreprod.115.137539

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

Summary: MicroRNA-183-96-182 cluster regulates bovine granulosa cell function by targeting *FOXO1* gene.

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Pregnancy

- Mayra B. Pastore, Saira Talwar, Meghan R. Conley, and Ronald R. Magness
Identification of Differential ER-Alpha Versus ER-Beta Mediated Activation of eNOS in Ovine Uterine Artery Endothelial Cells
Biol Reprod June 2016 94 (6) 139, 1-9; published ahead of print May 11, 2016, doi:10.1095/biolreprod.115.137554
[Abstract](#) [Full Text](#) [Full Text \(PDF\)](#)
- Summary:** Estradiol-17beta, ER-alpha, and ER-beta are important components in the normal vasodilatory effects via NO production in ovine UAECs, which is a critical step in understanding on how these components can become dysfunctional in cardiovascular disorders such as preeclampsia.
- David J. Carr, Jacqueline M. Wallace, Raymond P. Aitken, John S. Milne, John F. Martin, Ian C. Zachary, Donald M. Peebles, and Anna L. David
Peri- and Postnatal Effects of Prenatal Adenoviral VEGF Gene Therapy in Growth-Restricted Sheep
Biol Reprod June 2016 94 (6) 142, 1-12; published ahead of print April 20, 2016, doi:10.1095/biolreprod.115.137444
[Abstract](#) [Full Text](#) [Full Text \(PDF\)](#)
- Summary:** Maternal administration of adenoviral vascular endothelial growth factor gene therapy into both uterine arteries at mid-gestation in overnourished adolescent ewes with putative fetoplacental growth restriction increased fetal and postnatal growth rates without adverse effects.

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Reproductive Technology

- Kaori Motomura, Mami Oikawa, Michiko Hirose, Arata Honda, Sumie Togayachi, Hiroyuki Miyoshi, Yasuhide Ohinata, Michihiko Sugimoto, Kuniya Abe, Kimiko Ino
Cellular Dynamics of Mouse Trophoblast Stem Cells: Identification of a Persistent Stem Cell Type
Biol Reprod June 2016 94 (6) 122, 1-14; published ahead of print April 27, 2016, doi:10.1095/biolreprod.115.137125
[Abstract](#) [Full Text](#) [Full Text \(PDF\)](#) [Supplemental Data](#)
[OPEN ACCESS ARTICLE](#)
- Summary:** Characterizations of different types of colonies and the cells comprising mouse trophoblast stem cell (TSC) lines identified the most undifferentiated colony and cell types, which might be responsible for the maintenance of TSC lines in vitro.
- Guan-Chung Wu, Hau-Wen Li, Chih-Hsiang Huang, Hong-Jia Lin, Chien-Ju Lin, and Ching-Fong Chang
The Testis Is a Primary Factor That Contributes to Epigenetic Modifications in the Ovaries of the Protandrous Black Porgy, *Acanthopagrus schlegelii*
Biol Reprod June 2016 94 (6) 132, 1-13; published ahead of print April 20, 2016, doi:10.1095/biolreprod.115.137463
[Abstract](#) [Full Text](#) [Full Text \(PDF\)](#) [Supplemental Data](#)
- Summary:** The decreased methylation levels and increased numbers of hypomethylated clones of the ovarian *cyp19a1a* promoter are regulated by the testis in the digonic gonad during sex change in fish.

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Toxicology

- Xue-Jin Wang, Gong-Peng Xiong, Xiang-Min Luo, Su-Zhen Huang, Jin Liu, Xiao-Lan Huang, Yuan-Zhi Xie, and Wen-Ping Lin
Dibutyl Phthalate Inhibits the Effects of Follicle-Stimulating Hormone on Rat Granulosa Cells Through Down-Regulation of Follicle-Stimulating Hormone Receptor
Biol Reprod June 2016 94 (6) 144, 1-13; published ahead of print March 9, 2016, doi:10.1095/biolreprod.115.136002
[Abstract](#) [Full Text](#) [Full Text \(PDF\)](#) [Supplemental Data](#)
- Summary:** Dibutyl phthalate, which is widely used in solvents and plasticizers, down-regulates the expression of follicle stimulating hormone receptor in ovarian follicular granulosa cells to impair biological function of granulosa cells.