BIOLOGY of REPRODUCTION

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Charlotte Schubert
WORLD OF REPRODUCTIVE BIOLOGY
Biol Reprod July 2013 89 (1) 1, 1-2;
doi:10.1095/biolreprod.113.110478
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Research Articles

Female Reproductive Tract

Aykut Gram, Urs Büchler, Alois Boos, Bernd Hoffmann, and Mariusz P. Kowalewski
Biosynthesis and Degradation of Canine Placental Prostaglandins: Prepartum Changes in Expression and Function of Prostaglandin F2alpha-Synthase (PGFS, AKR1C3) and 15-Hydroxyprostaglandin Dehydrogenase (HPGD)
Biol Reprod July 2013 89 (1) 2, 1-12; published ahead of print May 15, 2013, doi:10.1095/biolreprod.113.109918
»Abstract »Full Text »Full Text (PDF)

Summary: Utero/placental expression and activity of PGFS (AKR1C3) and HPGD vary during placental development and prepartum luteolysis in dogs, with HPGD serving as a local regulator of amounts of uterine prostaglandin available for prepartum release.

Sara S. Morelli, Pranela Rameshwar, and Laura T. Goldsmith
Experimental Evidence for Bone Marrow as a Source of Nonhematopoietic Endometrial Stromal and Epithelial Compartment Cells in a Murine Model
Biol Reprod July 2013 89 (1) 7, 1-7; published ahead of print May 22, 2013, doi:10.1095/biolreprod.113.107987
»Abstract »Full Text »Full Text (PDF) »Supplemental Data

Summary: The bone marrow is an important source of nonhematopoietic murine endometrial stromal compartment cells and contributes to a lesser extent to the endometrial epithelial compartment.

Mallory E. Lindberg, Genna R. Stodden, Mandy L. King, James A. MacLean II, Jordan L. Mann, Francesco J. DeMayo, John P. Lydon, and Kanako Hayashi
Loss of *Cdh1* and *Pten* Accelerates Cellular Invasiveness and Angiogenesis in the Mouse Uterus
Biol Reprod July 2013 89 (1) 8, 1-10; published ahead of print June 5, 2013, doi:10.1095/biolreprod.113.109462
»Abstract »Full Text »Full Text (PDF)

Summary: Ablation of *Cdh1* with *Pten* in the mouse uterus accelerates cellular invasiveness and angiogenesis, and is fatal during early life.

Gina M. Sizemore, Steven T. Sizemore, Bhupinder Pal, Christine N. Booth, Darcie D. Seachrist, Fadi W. Abdul-Karim, Tsutomu Kume, and Ruth A. Keri
FOXC1 Is Enriched in the Mammary Luminal Progenitor Population, but Is Not Necessary for Mouse Mammary Ductal Morphogenesis

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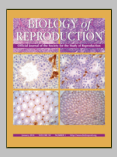

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Biol Reprod July 2013 89 (1) 10, 1-10; published ahead of print May 15, 2013, doi:10.1095/biolreprod.113.108001
»Abstract »Full Text »Full Text (PDF)

Summary: FOXC1 is enriched in the normal mammary luminal progenitor population and in the differentiated basal/myoepithelium, but is not necessary for mammary ductal outgrowth, alveologenesis, or lineage specification.

☐ Kerri Stanley Yip, Alexander Suvorov, Jeannette Connerney, Nicholas J. Lodato, and David J. Waxman

Changes in Mouse Uterine Transcriptome in Estrus and Proestrus

Biol Reprod July 2013 89 (1) 13, 1-12; published ahead of print June 5, 2013, doi:10.1095/biolreprod.112.107334
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Summary: Around 10% of genes are regulated in proestrus/estrus in mouse uterus including genes responsible for remodeling of the extracellular matrix, for mitosis, for Wnt and hedgehog signaling, for the coagulation cascade as well as keratins, adhesion molecules, complement, and P450s.

☐ Jui-He Tsai, Maureen Schulte, Kathleen O'Neill, Maggie M.-Y. Chi, Antonina I. Frolova, and Kelle H. Moley

Glucosamine Inhibits Decidualization of Human Endometrial Stromal Cells and Decreases Litter Sizes in Mice

Biol Reprod July 2013 89 (1) 16, 1-10; published ahead of print May 29, 2013, doi:10.1095/biolreprod.113.108571
»Abstract »Full Text »Full Text (PDF) »Supplemental Data
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Summary: Glucosamine is a nonhormonal inhibitor of decidualization of both human and mouse endometrial stromal cells and of pregnancy in mice.

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Gamete Biology

☐ Jeffrey E. Gray, Joshua Starmer, Vivian S. Lin, Bryan C. Dickinson, and Terry Magnuson

Mitochondrial Hydrogen Peroxide and Defective Cholesterol Efflux Prevent In Vitro Fertilization by Cryopreserved Inbred Mouse Sperm

Biol Reprod July 2013 89 (1) 17, 1-12; published ahead of print June 5, 2013, doi:10.1095/biolreprod.113.109157
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Summary: Mitochondrial hydrogen peroxide and defective cholesterol efflux prevent in vitro fertilization by mouse sperm after cryopreservation in a strain-dependent manner.

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Male Reproductive Tract

☐ Ramkrishna Patel, Amal A. Al-Dossary, Deborah L. Stabley, Carol Barone, Deni S. Galileo, Emanuel E. Strehler, and Patricia A. Martin-DeLeon

Plasma Membrane Ca^{2+}-ATPase 4 in Murine Epididymis: Secretion of Splice Variants in the Luminal Fluid and a Role in Sperm Maturation

Biol Reprod July 2013 89 (1) 6, 1-11; published ahead of print May 22, 2013, doi:10.1095/biolreprod.113.108712
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Summary: PMCA4a and -4b regulate Ca^{2+} homeostasis and fertility, are expressed in the epididymis, and secreted in the luminal fluid, where they are acquired by sperm during epididymal maturation.

Most **Read** **Cited**

1. CatSper and the Relationship of Hyperactivated Motility to Intracellular Calcium and pH Kinetics in Equine Sperm
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Mechanisms of Hormone Action

☐ Antonio Pérez-Pérez, Julieta Maymó, Yesica Gambino, Pilar Guadix, José L. Dueñas, Cecilia Varone, and Víctor Sánchez-Margalet

Insulin Enhances Leptin Expression in Human Trophoblastic Cells

Biol Reprod July 2013 89 (1) 20, 1-8; published ahead of print May 29, 2013, doi:10.1095/biolreprod.113.109348

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Summary: Insulin enhances leptin expression in human trophoblasts via both PI3K and MAPK pathways, and the leptin gene promoter region between -1951 and -1546 bp is necessary to achieve this effect.

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Ovary

☐ Griselda Irusta, Camila Pazos Maidana, Dalhia Abramovich, Ignacio De Zúñiga, Fernanda Parborell, and Marta Tesone

Effects of an Inhibitor of the Gamma-Secretase Complex on Proliferation and Apoptotic Parameters in a FOXL2-Mutated Granulosa Tumor Cell Line (KGN)

Biol Reprod July 2013 89 (1) 9, 1-9; published ahead of print May 22, 2013, doi:10.1095/biolreprod.113.108100

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Summary: The Notch pathway is involved in granulosa tumor cell proliferation and cell death via interactions with the PI3K/AKT signaling pathway.

☐ D.M. Magalhães-Padilha, J. Geisler-Lee, A. Wischral, M.O. Gastal, G.R. Fonseca, Y.R.G. Eloy, M. Geisler, J.R. Figueiredo, and E.L. Gastal

Gene Expression During Early Folliculogenesis in Goats Using Microarray Analysis

Biol Reprod July 2013 89 (1) 19, 1-12; published ahead of print June 12, 2013, doi:10.1095/biolreprod.112.106096

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Summary: The gene expression profile differs between secondary and tertiary ovarian follicles, and microarray analysis identifies genes and pathways involved in this transition.

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Pregnancy

☐ Martha Lappas

NOD1 and NOD2 Regulate Proinflammatory and Prolabor Mediators in Human Fetal Membranes and Myometrium via Nuclear Factor-Kappa B

Biol Reprod July 2013 89 (1) 14, 1-11; published ahead of print June 5, 2013, doi:10.1095/biolreprod.113.110056

»Abstract »Full Text »Full Text (PDF)

Summary: NOD1 and NOD2 are increased in laboring fetal membranes and myometrium, and NOD activation by bacterial ligands induces the expression of proinflammatory and prolabor mediators.

☐ Jonathan H. Gooi, Meghan L. Richardson, Maria Jelinic, Jane E. Girling, Mary E. Wlodek, Marianne Tare, and Laura J. Parry

Enhanced Uterine Artery Stiffness in Aged Pregnant Relaxin Mutant Mice Is Reversed with Exogenous Relaxin Treatment

Biol Reprod July 2013 89 (1) 18, 1-11; published ahead of print May 29, 2013, doi:10.1095/biolreprod.113.108118

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Summary: Relaxin deficiency in older mice results in structural modifications and increased rigidity in the uterine artery.

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Reproductive Technology

☐ Valéria A. Conforti, Helen L. Bateman, Mandi W. Schook, Jackie Newsom, Leslie A. Lyons, Robert A. Grahn, James A. Deddens,

and William F. Swanson

Laparoscopic Oviductal Artificial Insemination Improves Pregnancy Success in Exogenous Gonadotropin-Treated Domestic Cats as a Model for Endangered Felids

Biol Reprod July 2013 89 (1) 4, 1-9; published ahead of print May 22, 2013, doi:10.1095/biolreprod.112.105353

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Summary: Laparoscopic artificial insemination in exogenous gonadotropin-treated cats using low sperm numbers shows improved fertilization success when semen is deposited into the oviduct versus the uterus.

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Testis

☐ Masataka Chihara, Ryoyo Ikebuchi, Saori Otsuka, Osamu Ichii, Yoshiharu Hashimoto, Atsushi Suzuki, Yumiko Saga, and Yasuhiro Kon

Mice Stage-Specific Claudin 3 Expression Regulates Progression of Meiosis in Early Stage Spermatocytes

Biol Reprod July 2013 89 (1) 3, 1-12; published ahead of print May 15, 2013, doi:10.1095/biolreprod.113.107847

»Abstract »Full Text »Full Text (PDF)

Summary: Claudin 3 is expressed in Sertoli cells and spermatocytes in a spermatogenic stage-specific manner, and its knockdown causes a delay in spermatocyte migration across the blood-testis barrier and affects spermatogenesis.

☐ Xi-Xia Li, Su-Ren Chen, Bin Shen, Jun-Ling Yang, Shao-Yang Ji, Qing Wen, Qiao-Song Zheng, Lei Li, Jun Zhang, Zhao-Yuan Hu, Xing-Xu Huang, and Yi-Xun Liu

The Heat-Induced Reversible Change in the Blood-Testis Barrier (BTB) Is Regulated by the Androgen Receptor (AR) via the Partitioning-Defective Protein (Par) Polarity Complex in the Mouse

Biol Reprod July 2013 89 (1) 12, 1-10; published ahead of print June 12, 2013, doi:10.1095/biolreprod.113.109405

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Summary: Overexpression and knockdown analyses, in combination with in vivo androgen receptor (AR) antagonist injections revealed that disruption and recovery of blood-testis barrier integrity induced by heat stress are regulated by the androgen receptor via the Par polarity complex.

☐ Tetsuhiro Yokonishi, Takuya Sato, Kumiko Katagiri, Mitsuru Komeya, Yoshinobu Kubota, and Takehiko Ogawa

In Vitro Reconstruction of Mouse Seminiferous Tubules Supporting Germ Cell Differentiation

Biol Reprod July 2013 89 (1) 15, 1-6; published ahead of print June 12, 2013, doi:10.1095/biolreprod.113.108613

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Summary: Mouse seminiferous tubules were successfully reconstructed in vitro, with spermatogenesis supported to the meiotic phase.

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Toxicology

☐ Bolan Yu, Jingyi Chen, Dan Liu, Hua Zhou, Weiwei Xiao, Xuefeng Xia, and Zhaofeng Huang

Cigarette Smoking Is Associated with Human Semen Quality in Synergy with Functional *NRF2* Polymorphisms

Biol Reprod July 2013 89 (1) 5, 1-7; published ahead of print May 29, 2013, doi:10.1095/biolreprod.113.109389

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Summary: There is an association between cigarette smoking in heavy smokers with the *NRF2* rs6721961 TT genotype and a decrease in semen quality; smoking and *NRF2* functional polymorphisms may have a synergetic effect on human spermatogenesis.

☐ Tanguy Corbel, Véronique Gayrard, Catherine Viguié, Sylvie Puel, Marlène Z. Lacroix, Pierre-Louis Toutain, and Nicole Picard-Hagen

Bisphenol A Disposition in the Sheep Maternal-Placental-Fetal Unit: Mechanisms Determining Fetal Internal Exposure

Biol Reprod July 2013 89 (1) 11, 1-9; published ahead of print May 22, 2013, doi:10.1095/biolreprod.112.106369

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Summary: In a sheep model, the fetus exposed to bisphenol A efficiently metabolizes this compound into conjugates that remain trapped in amniotic fluid.

Special Paper

Chawnshang Chang, Soo Ok Lee, Ruey-Sheng Wang, Shuyuan Yeh, and Ta-Min Chang

Androgen Receptor (AR) Physiological Roles in Male and Female Reproductive Systems: Lessons Learned from AR-Knockout Mice Lacking AR in Selective Cells

Biol Reprod July 2013 89 (1) 21, 1-16; published ahead of print June 19, 2013, doi:10.1095/biolreprod.113.109132

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Summary: Exploration of androgen receptor (AR) cell type- or tissue-specific roles in male and female reproductive systems using ARKO mouse models provides indications of AR function in the reproductive system in humans.

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