

# World of Reproductive Biology

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What Lies Between Trophoblasts and the Inner Cell Mass

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PGRMC1: A Fertility Stabilizer

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## Gamete Biology

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The Behavior and Acrosomal Status of Mouse Spermatozoa In Vitro, and Within the Oviduct During Fertilization after Natural Mating

[Toshiaki Hino](#); [Yuko Muro](#); [Miwa Tamura-Nakano](#); [Masaru Okabe](#); [Hiroyuki Tateno](#) ...

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## Male Reproductive Tract

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PiggyBac Transposon-Mediated Mutagenesis in Rats Reveals a Crucial Role of *Bbxin* Growth and Male Fertility

[Chieh-Ying Wang](#); [Ming-Chu Tang](#); [Wen-Chi Chang](#); [Kenryo Furushima](#); [Chuan-Wei Jang](#) ...

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## Proteomic Analysis of Pachytene Spermatocytes of Sterile Hybrid Male Mice

[Lu Wang](#); [Yueshuai Guo](#); [Wenjing Liu](#); [Weidong Zhao](#); [Gendi Song](#) ...

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## Reproductive Technology

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### Caspase 3 Activity and Lipoperoxidative Status in Raw Semen Predict the Outcome of Cryopreservation of Stallion Spermatozoa

[Patricia Martín Muñoz](#); [Cristina Ortega Ferrusola](#); [Luis Anel Lopez](#); [Chiara del Petre](#); [Mercedes Alvarez Garcia](#) ...

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### Downregulation of miR-199a-5p Disrupts the Developmental Potential of In Vitro- Fertilized Mouse Blastocysts

[Kun Tan](#); [Xiaodong Wang](#); [Zhenni Zhang](#); [Kai Miao](#); [Yong Yu](#) ...

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## Pregnancy

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### Obesity Disrupts the Rhythmic Profiles of Maternal and Fetal Progesterone in Rat Pregnancy

[Rachael C. Crew](#); [Peter J. Mark](#); [Michael W. Clarke](#); [Brendan J. Waddell](#)

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## The Study of Cyclooxygenase 2 in Human Decidua of Preeclampsia

[Dongmei Zhang](#); [Xinlian Chang](#); [Jing Bai](#); [Zi-Jiang Chen](#); [Wei-Ping Li](#) ...

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## Testis

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### MicroRNA-16 Modulates Melatonin-Induced Cell Growth in the Mouse-Derived Spermatogonia Cell Line GC-1 spg Cells by Targeting *Ccnd1*

[Chunjin Li](#); [Shuxiong Chen](#); [Hongjiao Li](#); [Lu Chen](#); [Yun Zhao](#) ...

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### Deficiency of SPATA46, a Novel Nuclear Membrane Protein, Causes Subfertility in Male Mice

[Jianbo Chen](#); [Yanli Gu](#); [Zeng Zhang](#); [Wenzhong Zheng](#); [Lihua Yang](#) ...

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# From Primordial Germ to Mewling Pup: Advancing Oogenesis In Vitro

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## Articles

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Effects of Aging and Oxidative Stress on  
Spermatozoa of Superoxide-Dismutase 1-  
and Catalase-Null Mice

[Johanna S. Selvaratnam](#); [Bernard Robaire](#)

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## Minireview

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Conservation of DNA Methylation  
Programming Between Mouse and Human  
Gametes and Preimplantation Embryos

[Carlee R. White](#); [William A. MacDonald](#); [Mellissa  
R.W. Mann](#)

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## Female Reproductive Tract

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KLF10 Mediated Epigenetic Dysregulation  
of Epithelial CD40/CD154 Promotes  
Endometriosis

[Abigail A. Delaney](#); [Zaraq Khan](#); [Ye Zheng](#); [Luiz F.  
Correa](#); [Valentina Zanfagnin](#) ...

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## Testis

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Spermatogenesis in Explanted Fetal Mouse  
Testis Tissues

[Kazuaki Kojima](#); [Takuya Sato](#); [Yuta Naruse](#); [Takehiko Ogawa](#)

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## Gamete Biology

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Immature Oocytes from Unprimed Juvenile  
Mice Become a Valuable Source for  
Embryo Production When Using C-Type  
Natriuretic Peptide as Essential Component  
of Culture Medium

[Sergio Romero](#); [Flor Sánchez](#); [Francesca Lolicato](#); [Heidi Van Ranst](#); [Johan Smitz](#)

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## Pregnancy

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EPHB4 Regulates Human Trophoblast Cell  
Line HTR-8/SVneo Function: Implications  
for the Role of EPHB4 in Preeclampsia

[Xiaoping Liu](#); [Ying Hu](#); [Yanfang Zheng](#); [Xiaoxia Liu](#); [Minglian Luo](#) ...

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## Toxicology

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## Reactive Oxygen Stimulation of Interleukin-6 Release in the Human Trophoblast Cell Line HTR-8/SVneo by the Trichlorethylene Metabolite *S*-(1,2-Dichloro)-l-Cysteine

Iman Hassan; Anjana M. Kumar; Hae-Ryung Park; Lawrence H. Lash; Rita Loch-Caruso

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## Gamete Biology

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### Involvement of Protein Acyltransferase ZDHHC3 in Maintaining Oocyte Meiotic Arrest in *Xenopus laevis*

Junshun Fang; Huawei Wang; Liyun Miao; Xia Kuang; Weirui Ma ...

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## Immunology

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### Changes in Myeloid Lineage Cells in the Uterus and Peripheral Blood of Dairy Heifers During Early Pregnancy

Manasi M. Kamat; Sreelakshmi Vasudevan; Samar A. Maalouf; David H. Townson; Joy L. Pate ...

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## Female Reproductive Tract

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### The Effect of Coumestrol on Progesterone and Prostaglandin Production in the Mare: In Vitro and In Vivo Studies

[Anna Z. Szóstek](#); [Agnieszka Sadowska](#); [Katarzyna K. Piotrowska-Tomala](#); [Marta Botelho](#); [Maria João Fradinho](#) ...

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## Ovary

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Retinoic Acid Regulates Calcium Signaling to Promote Mouse Ovarian Granulosa Cell Proliferation

[Michael Demczuk](#); [Huiya Huang](#); [Carl White](#); [Jingjing L. Kipp](#)

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## Pregnancy

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Uterine Histotroph and Conceptus Development. II. Arginine and Secreted Phosphoprotein 1 Cooperatively Stimulate Migration and Adhesion of Ovine Trophectoderm Cells via Focal Adhesion-MTORC2 Mediated Cytoskeleton Reorganization

[Xiaoqiu Wang](#); [Greg A. Johnson](#); [Robert C. Burghardt](#); [Guoyao Wu](#); [Fuller W. Bazer](#)

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Uterotonic Neuromedin U Receptor 2 and Its Ligands Are Upregulated by Inflammation in Mice and Humans, and Elicit Preterm Birth

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Boudreault; Kelycia Leimert; Xin Hou; Dima Obari ...

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