

BIOLOGY OF REPRODUCTION

VOLUME 97, NUMBER 2
AUGUST 2017

Contents

Highlights

- New hope for symptom management during natural and iatrogenic menopause transitions
Teresa K. Woodruff and Sundeep Khosla 177

Commentary

- Gordon Niswender, Ph.D., 1940–2017
Terry Nett and Thomas R. Hansen 179

Review

- Computational imaging of sperm locomotion
Mustafa Ugur Daloglu and Aydogan Ozcan 182

Embryo

- Cultured bovine embryo biopsy conserves methylation marks from original embryo
Noelia Fonseca Balvís, Soledad Garcia-Martinez, Serafín Pérez-Cerezales, Elena Ivanova, Isabel Gomez-Redondo, Meriem Hamdi, Dimitrios Rizos, Pilar Coy, Gavin Kelsey and Alfonso Gutierrez-Adan 189

Female Reproductive Tract

- Uterine responses to early pre-attachment embryos in the domestic dog and comparisons with other domestic animal species
Felix R. Graubner, Aykut Gram, Ewa Kautz, Stefan Bauersachs, Selim Aslan, Ali R. Agaoglu, Alois Boos and Mariusz P. Kowalewski 197

Gamete Biology

- Expression of STRA8 is conserved in therian mammals but expression of CYP26B1 differs between marsupials and mice
Danielle E Hickford, Siew Fen Lisa Wong, Stephen R Frankenberg, Geoff Shaw, Hongshi Yu, Keng Yih Chew and Marilyn B Renfree 217

Immunology

- P2X7 receptor blockade prevents preterm birth and perinatal brain injury in a mouse model of intrauterine inflammation
Michael E. Tsimis, Jun Lei, Jason M. Rosenzweig, Hattan Arif, Yabya Shabi, Wael Alshehri, Connie C. Talbot, K. Maravet Baig-Ward, James Segars, Ernest M. Graham and Irina Burd 230

Neuroendocrinology

- GLP-1 increases *Kiss-1* mRNA expression in kisspeptin-expressing neuronal cells
Aki Oride, Haruhiko Kanasaki, Tselmeg Mijiddorj, Unurjargal Sukhbaatar, Tomomi Hara, Tuwshintugs Tumurbaatar and Satoru Kyo 240

Pregnancy

- Maternal placenta modulates a deleterious fetal mutation
Hongen Xu, Hubert Pausch, Heli Venhoranta, Karolina Rutkowska, Christine Wurmser, Beate Rieblinger, Tatiana Flisikowska, Dmitriy Frishman, Lech Zwierzchowski, Ruedi Fries, Magnus Andersson, Alexander Kind, Angelika Schnieke and Krzysztof Flisikowski 249

- The response of the innate immune and cardiovascular systems to LPS in pregnant and nonpregnant mice
Julia Zöllner, Laura G. Howe, Lydia F. Edey, Kieran P. O’Dea, Masao Takata, Fabiana Gordon, James Leiper and Mark R. Johnson 258

Pregnancy-induced changes in metabolome and proteome in ovine uterine flushings <i>Jared J. Romero, Bethany E. Liebig, Corey D. Broeckling, Jessica E. Prenni and Thomas R. Hansen</i>	273
SMAD7 regulates proinflammatory and prolabor mediators in amnion and myometrium <i>Ratana Lim, Gillian Barker and Martha Lappas</i>	288
Male Reproductive Tract	
Genomic identification, expression profiling, and functional characterization of CatSper channels in the bovine <i>Gillian P. Johnson, Anne-Marie English, Sinead Cronin, David A. Hoey, Kieran G. Meade and Sean Fair</i>	302
Dynamic expression of long noncoding RNAs reveals their potential roles in spermatogenesis and fertility <i>Lauren Wichman, Saigopal Somasundaram, Christine Breindel, Dana M. Valerio, John R. McCarrey, Craig A. Hodges and Ahmad M. Khalil</i>	313
Mechanisms of Hormone Action	
Molecular regulation of sex change induced by methyltestosterone -feeding and methyltestosterone -feeding withdrawal in the protogynous orange-spotted grouper <i>Qing Wang, Yun Liu, Cheng Peng, Xiang Wang, Ling Xiao, Dengdong Wang, Jiaying Chen, Haifa Zhang, Huibong Zhao, Shuisheng Li, Yong Zhang and Haoran Lin</i>	324