

BIOLOGY OF REPRODUCTION

VOLUME 96, NUMBER 5
MAY 2017

Contents

Review

- Nonsense in the testis: multiple roles for nonsense-mediated decay revealed in male reproduction
Clinton C. MacDonald and Petar N. Grozdanov 939

Embryo

- Role of chemokine (C-C motif) ligand 24 in spatial arrangement of the inner cell mass of the bovine embryo
Verónica M. Negrón-Pérez, Dorianmarie Vargas-Franco and Peter J. Hansen 948

Environment

- Antenatal blockade of N-methyl-D-aspartate receptors by Memantine reduces the susceptibility to diabetes induced by a high-fat diet in rats with intrauterine growth restriction
Xiao-Ting Huang, Shao-Jie Yue, Chen Li, Jia Guo, Yan-Hong Huang, Jian-Zhong Han, Dan-Dan Feng and Zi-Qiang Luo 960

Female Reproductive Tract

- Development of a novel *human* recellularized endometrium that responds to a 28-day hormone treatment
Susan A. Olalekan, Joanna E. Burdette, Spiro Getsios, Teresa K. Woodruff and J. Julie Kim 971

Gamete Biology

- Stearoyl-CoA desaturase activity in bovine cumulus cells protects the oocyte against saturated fatty acid stress
Hilde Aardema, Helena T. A. van Tol, Richard W. Wubbolts, Jos F. H. M. Brouwers, Bart M. Gadella and Bernard A. J. Roelen 982

- IFT25, an intraflagellar transporter protein dispensable for ciliogenesis in somatic cells, is essential for sperm flagella formation

- Hong Liu, Wei Li, Yong Zhang, Zhengang Zhang, Xuejun Shang, Ling Zhang, Shiyang Zhang, Yanwei Li, Andres V Somoza, Brandon Delpi, George L Gerton, James A Foster, Rex A Hess, Gregory J Pazour and Zhibing Zhang* 993

Male Reproductive Tract

- Constitutive luteinizing hormone receptor signaling causes sexual dysfunction and Leydig cell adenomas in male mice
Lan Hai, Deepak S. Hiremath, Mariléne Paquet and Prema Narayan 1007

Mechanisms of Hormone Action

- Mechanisms for the species difference between mouse and pig oocytes in their sensitivity to glucocorticoids
Shuai Gong, Guang-Yi Sun, Min Zhang, Hong-Jie Yuan, Shuai Zhu, Guang-Zhong Jiao, Ming-Jiu Luo and Jing-He Tan 1019

Neuroendocrinology

- The gonadotropin-inhibitory hormone (Lpxrfa) system's regulation of reproduction in the brain–pituitary axis of the zebrafish (*Danio rerio*)
Olivia Smith Spicer, Nilli Zmora, Ten-Tsao Wong, Matan Golan, Berta Levavi-Sivan, Yoav Gothilf and Yonathan Zohar 1031

- Interaction between kisspeptin and adenylate cyclase-activating polypeptide 1 on the expression of pituitary gonadotropin subunits: a study using mouse pituitary lbetaT2 cells
Tselmeg Mijiddorj, Haruhiko Kanasaki, Aki Oride, Tomomi Hara, Unurjargal Sukhbaatar, Tuvshintugs Tumurbaatar and Satoru Kyo 1043

Ovary	
Characterization of FOXO1, 3 and 4 transcription factors in ovaries of fetal, prepubertal and adult rhesus macaques	
<i>Alison Y. Ting and Mary B. Zelinski</i>	1052
Extragonadal oocytes residing in the mouse ovarian hilum contribute to fertility	
<i>Xiaofei Sun, Junya Ito, Sarah J. Potter, Sudhansu K. Dey and Tony DeFalco</i>	1060
Pregnancy	
Impact of gestational nicotine exposure on intrauterine and fetal infection in a rodent model	
<i>Maria von Chamier, Leticia Reyes, Linda F. Hayward and Mary B. Brown</i>	1071
Maternal high-sucrose diets altered vascular large-conductance Ca^{2+} -activated K^+ channels via reactive oxygen species in offspring rats	
<i>Xueqin Feng, Xiuwen Zhou, Wennan Zhang, Xiang Li, Axin He, Bailin Liu, Ruixiu Shi, Lei Wu, Jue Wu, Di Zhu, Na Li, Miao Sun and Zhice Xu</i>	1085
Testis	
Meiosis-specific proteins MEIOB and SPATA22 cooperatively associate with the single-stranded DNA-binding replication protein A complex and DNA double-strand breaks	
<i>Yang Xu, Roger A. Greenberg, Ernst Schonbrunn and P. Jeremy Wang</i>	1096
Toxicology	
Effects of in vitro exposure to dibutyl phthalate, mono-butyl phthalate, and acetyl tributyl citrate on ovarian antral follicle growth and viability	
<i>Lindsay M. Rasmussen, Nivedita Sen, Jahaira C. Vera, Xiaosong Liu and Zelieann R. Craig</i>	1105
Erratum	
Erratum to: Gonadotropin-releasing hormone, kisspeptin, and gonadal steroids directly modulate nucleobindin-2/nesfatin-1 in murine hypothalamic gonadotropin-releasing hormone neurons and gonadotropes	
<i>A. Hatef and S. Unniappan</i>	1118
Erratum to: 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	
.....	1119