CONTENTS
VOLUME 232 NUMBER 1

REVIEWS

Oviduct: roles in fertilization and early embryo development
Shuai Li & Wipawee Winuthayanon
R1-R26

Vascular adaptation in pregnancy and endothelial dysfunction in preeclampsia
D S Boeldt & I M Bird
R27-R44

Neutfatin-1 functions and physiology of a novel regulatory peptide
Riccardo Dore, Luca Levato, Hendrik Lefniert & Carla Schulz
R45-R65

RESEARCH

Expression of wnt4/5 during reproductive cycle of catfish and wnt5 promoter analysis
Yarikipati Prathibha & Balasubramanian Senthilkumaran
1-13

Prepuberal light phase feeding induces neuroendocrine alterations in adult rats
C Garcia-Luna, P Solorzano-Chavez & P de Gortari
15-28

Metabolic dysfunction in female mice with disruption of 5α-reductase 1
Dawn E W Livingstone, Emma M Di Rollo, Tracy C S Mak, Karen Sooy, Brian R Walker & Ruth Andrew
29-36

Prenatal corticosterone exposure programs sex-specific adrenal adaptations in mouse offspring
J S M Cutt, E L Turton, L K Akiin, H Bieliek-Klithmann & K M Moritz
37-48

Differential effects of hypercaloric choice diets on insulin sensitivity in rats
Charlene Diaspenbroek, Leslie Eggels, Maritte T Ackermans, Erik Flers, Andries Kalsteek, Mireille J Serlie & Suzanne E la Fleur
49-57

TSC1-mTOR signaling determines the differentiation of islet cells
Li Ding, Yue Yin, Lingling Han, Yin Li, Jing Zhao & Wenchun Zhang
59-70

Sodium butyrate activates NRF2 to ameliorate diabetic nephropathy possibly via inhibition of HDAC
Weiping Dong, Ye Jia, XiuXiu Liu, Huan Zhang, Tie Li, Weimin Huang, Xudong Chen, Fuchun Wang, Meirui Sun & Hao Wu
71-83

Estrogen receptors and estetrol-dependent neuroprotective actions: a pilot study
Ekaterine Tskitishvili, Christel Pequeux, Carine Munaut, Renaud Viellevoye, Michelle Nicolle, Agnes Noël & Jean-Michel Foidart
85-95
The Society for Endocrinology is one of the world’s leading authorities on hormones. Established in 1946, the Society’s aims are to support the advancement of scientific and clinical knowledge and increase research in endocrinology for the public benefit. It also plays a vital role in promoting and supporting endocrinology worldwide.

The Society for Endocrinology offers a range of journals including Journal of Endocrinology, Journal of Molecular Endocrinology, Endocrine-Related Cancer, Endocrine Connections (open access) and Clinical Endocrinology.

For more information visit www.endocrinology.org

COVER ART COMPETITION

Readers are invited to submit their endocrinology images for entry into the Journal of Endocrinology cover art competition. Winners will be selected by the Editor-in-Chief and will have their imagery featured on the cover of an issue of Journal of Endocrinology, both in print and online. Winners will be cited in the journal and will receive a professionally printed copy of the journal cover featuring their scientific image.

To enter the competition please email your images to joe@endocrinology.org accompanied with a short caption of 25-30 words explaining what the image depicts, its magnification and who should be acknowledged for its production. Images should be of high quality and resolution of at least 300 dpi at the final published size 220 mm (W) × 100 mm (H).

By submitting an image you warrant that you own the copyright and agree that images may be used in promotional material. Images not selected for use may still be used by the Society for Endocrinology and Bioscientifica for promotional purposes.

THIS ISSUE’S COVER

Origins of bone and cartilage disease skeletal phenotyping. Micro-CT images of femur cortical and trabecular bone from wild-type mouse (left) and mutant mouse with low bone mass (right). From Freudenthal et al. 231 R31–R46.

Credit: B Freudenthal, J Logan, G Williams, D Bassett (Imperial College London), and P Croucher (Garvan Institute Sydney)

Contents continued from outside back cover

Kisspeptin level in the aging ovary is regulated by the sympathetic nervous system 97–105
Daniela Fernandois, Gonçalo Cruz, Eun Kyung Na, Hernán E Lars & Alfonso H Paredes

Hepatocyte-specific, PPARγ-regulated mechanisms to promote steatosis in adult mice 107–121
Abigail Wolf Greenstein, Neena Majumdar, Peng Yang, Papanasani V Sudheesh, Rhonda D Kineman & Jose Cordoba-Chacon

Paradoxical leanness in the imprinting-centre deletion mouse model for Prader–Willi syndrome 123–135
David H Golding, Daniel J Ross, Jennifer R Davies, Dinale Bellovic, Hannah V Furdby, Anna A Guichiana, Anna L Hopkins, Jeffrey S Davies, James L Reenick, Anthony P Isles & Timothy Wells

ACKNOWLEDGEMENT

Acknowledgement to reviewers A1–A10