REVIEW

Current status and future perspectives: TSPO in steroid neuroendocrinology
Vimal Selvaraj & Lan N Tu
R1–R30

Rapid phenotyping of knockout mice to identify genetic determinants of bone strength
Bernard Freundenthal, John Logan, Sanger Institute Mouse Pipelines, Peter I Croucher, Graham R Williams & J H Duncan Bassett
R31–R46

RESEARCH

Fecal thyroid hormones allow for the noninvasive monitoring of energy intake in capuchin monkeys
Franka S Schaebs, Tanja E Wolf, Verena Behringer & Tobias Deschner
1–10

Endocrine effects of duodenal-jejunal exclusion in obese patients with type 2 diabetes mellitus
Petra Kaválková, Miloš Mráz, Pavel Trachta, Jan Klučka, Anna Cinkajzlová, Zdeňka Lacinová, Václav Burda, Daniel Nouk, Tomáš Petr, Libor Vítek, Terezie Pelíšková & Martin Haluzík
11–22

IL-33-driven ILC2/eosinophil axis in fat is induced by sympathetic tone and suppressed by obesity
Xiaofeng Ding, Yan Luo, Xing Zhang, Hengbing Zheng, Xin Yang, Xuexian Yang & Meilian Liu
35–48

Decreased basal insulin secretion from pancreatic islets of pups in a rat model of maternal obesity
Elena Zambra, Tonantzin Sosa-Larios, Lizbeth Calzada, Carlos A Iñáñez, Carmen A Mendez-Rodriguez, Angelica Morales & Sumiko Morimoto
49–57

Mild pituitary phenotype in 3- and 12-month-old Aip-deficient male mice
Anne-Lise Lecoq, Philippe Zizzi, Miraila Hage, Lysianne Decourtye, Clive Adams, Say Weerachan, Johannes D Veldhuis, Valérie Geoffroy, Marc Lombès, Virginie Tolle, Anne Guillo, Aul Kallio, Laurent Kappeler, Philippe Chanson & Peter Kamenicky
59–69

PAPP-A in normal human mesangial cells: effect of inflammation and factors related to diabetic nephropathy
Diane Donegan, Laurie K Bale & Cheryl A Conover
71–80

Vildagliptin reduces cardiac ischemic-reperfusion injury in obese orchectomized rats
Wangitak Pongkan, Hiranya Pintana, Thidarat Jaiwongkam, Sasivan Kredphoo, Sivaporn Sivasiriprasarn, Srijorn Chuttipakorn & Nipon Chuttipakorn
81–95

Mild pituitary phenotype in 3- and 12-month-old Aip-deficient male mice
Anne-Lise Lecoq, Philippe Zizzi, Miraila Hage, Lysianne Decourtye, Clive Adams, Say Weerachan, Johannes D Veldhuis, Valérie Geoffroy, Marc Lombès, Virginie Tolle, Anne Guillo, Aul Kallio, Laurent Kappeler, Philippe Chanson & Peter Kamenicky
59–69
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) x 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. X-ray microradiography images of a mouse femur. In the pseudo-coloured image low bone mineral content is shown as green/yellow and high bone mineral content as red/pink. 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**

C-peptide protects against hyperglycemic memory and vascular endothelial cell apoptosis

Mahendra Prazad Bhatt, Hoon-Ju Lee, Se-Hui Jung, Yong Ho Kim, Jung Yun Mekang, Eun-Taek Han, Won Sun Park, Seok-Ho Hong, Young-Myeong Kim & Kwon-Soo Ha

97-108