CONTENTS

VOLUME 59 NUMBER 3

REVIEW
Therapeutic potential of mesenchymal stem cells for diabetes R109–R120
Alvaro Moreira, Samuel Kahlenberg & Peter Hornsby

RESEARCH
Berberine reduced blood pressure and improved vasodilation in diabetic rats 191–204

miR-212-5p suppresses lipid accumulation by targeting FAS and SCD1 205–217
Yajie Guo, Junjie Yu, Chunxia Wang, Kai Li, Bin Liu, Ying Du, Fei Xiao, Shanghai Chen & Feifan Guo

Melatonin mediates vasodilation through both direct and indirect activation of BK_{\text{Ca}}_ channels 219–233
T Zhao, H Zhang, C Jin, F Qiu, Y Wu & L Shi

The regulation of oxytocin and oxytocin receptor in human placenta according to gestational age 235–243
Seung-Chul Kim, Jae-Eon Lee, Seong Soo Kang, Hoe-Saeng Yang, Sun Suk Kim & Beum-Soo An

Helminth antigens counteract a rapid high-fat diet-induced decrease in adipose tissue eosinophils 245–255
Susan M van den Berg, Andrea D van Dam, Pascal J H Kusters, Linda Beckers, Myrthe den Toom, Saskia van der Velden, Jan Van den Bossche, Irma van Die, Manliette R Boon, Patrick C N Rensen, Esther Ludgens & Menno P de Winther

 Estradiol-induced regulation of GLUT4 in 3T3-L1 cells: involvement of ESR1 and AKT activation 257–268
Raquel S Campello, Luciana A Fátima, João Nilton Barreto-Andrade, Thais F Lucas, Rosana C Mori, Catarina S Porto & Ubiratan F Machado

Contents continued on the inside back cover
Regulation of adrenal and ovarian steroidogenesis by miR-132
Zhigang Hu, Wen-Jun Shen, Fredric B Kraemer & Salman Azhar

Adiponectin limits differentiation and trophoblast invasion in human endometrial cells
Fabien Duval, Esther Dos Santos, Hadia Monjdie, Valérie Serazin, Nelly Swierkowski-Blanchard, François Vialard & Marie-Noëlle Dieudonné

Contents continued from outside back cover

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

Readers are invited to submit their endocrinology images for entry into the Journal of Molecular 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 Molecular 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 jme@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 a 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.

The image depicts the localization of gastrin-releasing peptide (GRP) in LH-cells (top), but not in ACTH, GH or PRL cells (middle, bottom) in cultured chicken pituitary cells. Cell nuclei (blue); GRP (green); pituitary hormones (red); GRP and LH co-localization (yellow). This study demonstrates that GRP is a novel pituitary hormone in chickens. From Mo et al. 59:61-79.

Credit: C Mo, L Huang, L Cui, C Ly, D Lin, L Song, G Zhu, J Li & Y Wang (Sichuan University, China)