REVIEWS

**STEAP4: its emerging role in metabolism and homeostasis of cellular iron and copper**

**Pituitary stem cell regulation: who is pulling the strings?**
Benoît Cox, Heleen Roose, Annelies Vennakes & Hugo Vankelecom

**Improvement of obesity-linked skeletal muscle insulin resistance by strength and endurance training**
Sergio Di Meo, Susanna Iossa & Paola Venditti

RESEARCH

**The highly overlapping actions of Lh signaling and Fsh signaling on zebrafish spermatogenesis**
Yuxin Xie, Lianhe Chu, Yun Liu, Kathy Y. Y. Sham, Jianzhong Li & Christopher H. K. Cheung

**HB-EGF regulates Prss56 expression during mouse decidualization via EGFR/ERK/EGR2 signaling pathway**
Jia Liu, Fa Guo, Yue-Fang Liu, Hai-Ting Dou, Jia-Qi Yan, Zong-Min Fan & Zeng-Ming Yang

**Metabolic and neuroprotective effects of dapagliflozin and liraglutide in diabetic mice**

**TNFRp55 deficiency promotes the development of ectopic endometriotic-like lesions in mice**
Sandra Vallcaneras, Federica Gherna, Juan Bastón, Maria Bolén Debiouc, Gabriela Meresman & Martina Casals

**Metabolic phenotype in the mouse model of osteogenesis imperfecta**
Iris Boraschi-Diaz, Josephine T. Tauer, Omar El-Rifaa, Delphine Guillermette, Geneviève Lefebvre, Frank Rauch, Mathieu Fourn & Svetlana V. Komanova

**Macrophage 11β-HSD-1 deficiency promotes inflammatory angiogenesis**
Zhenqiang Zhang, Agnes E. Coutinho, Tak Yung Man, Tina M. J. Kipiani, Patrick W. F. Haddock, Donald M. Salter, Jonathan R. Seckl & Karen E. Chapman

**In utero vitamin D deficiency predisposes offspring to long-term adverse adipose tissue effects**
Anthony M. Belenchía, Sarah A. Johnson, Mark R. Ellersieck, Cheryl S. Rosenfeld & Catherine M. Peterson
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**

The image depicts a hypothetical model of entrainment of circadian oscillators by light and hormonal inputs in fishes: putative mechanisms for the synchronisation of endogenous clocks. The core loop is thought to be synchronised by exogenous (light) or endogenous (hormones) temporal messengers through the induction or repression of specific clock genes. In each box, only putative response elements that are involved in each response (light, cortisol or ghrelin) are shown. From Isorna et al. 232 R141–R159.

Credits. E Isorna, N de Pedro, Al Valenciano, Ál Alonso-Gómez & MJ Delgado (Universidad Complutense de Madrid, Spain)