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 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 the functional structures of SRY, the upstream genes of SRY, and the model for Srd transcriptional regulation in the developing gonad.

Credit: Zhen-Yu She and Wan-Xi Yang, College of Life Sciences, Zhejiang University, Hangzhou, China

Contents continued from outside back cover

Minimal requirements for ubiquitination-mediated regulation of thyroid hormone activation
Petr Egri & Balázs Gereben
Regulation of CD163 mRNA and soluble CD163 protein in human adipose tissue in vitro
Karen Fieldborg, Holger J Meller, Bjarn Richelsen & Steen B Pedersen
PPAR ligands improve impaired metabolic pathways in fetal hearts of diabetic rats
Melisa Kurtz, Evangelina Capobianco, Nora Martinez, Sabrina Lorena Roberti, Edith Arany & Alicia Javerbaum
PTEN regulates plasma membrane expression of glucose transporter 1 and glucose uptake in thyroid cancer cells
Federica Morani, Suratchanee Phadngam, Carlo Follo, Rossella Titone, Gianluca Almaretti, Alessandra Galletto, Oscar Alabissi & Ciro Isidoro
Calcineurin and CRTC2 mediate FSH and TGFβ1 upregulation of Cyp19a1 and Nr5a in ovary granulosa cells
Wei-An Lai, Yi-Ting Yeh, Wei-Ling Fang, Leang-Shin Wu, Nobuhito Harada, Peng-Hui Wang, Fang-Chun Ke, Wen-Ling Lee & Juan-Juan Hwang

Cellular distribution of Egr1 transcription in the male rat pituitary gland
Pui-Sim Man, Timothy Wills & David A. Carter
oxLDL induces injury and defenestration of human liver sinusoidal endothelial cells via LOX1
Qi Zhang, Jing Liu, Ji Liu, Wenhui Huang, Limin Tian, Jinxing Quan, Yunnang Wang & Ruiulan Niu

The insulin-sensitivity sulphonylurea receptor variant is associated with thyrotoxic paralyis
Ana Luzia R Roim, Susan C Lindsey, lda S Kunii, Felipe Crispim, Regina Célia M S Mouts, Rui M B Maciel & Magnus R Dias da Silva

Minimal requirements for ubiquitination-mediated regulation of thyroid hormone activation
Regulation of CD163 mRNA and soluble CD163 protein in human adipose tissue in vitro

PPAR ligands improve impaired metabolic pathways in fetal hearts of diabetic rats
PTEN regulates plasma membrane expression of glucose transporter 1 and glucose uptake in thyroid cancer cells
Calcineurin and CRTC2 mediate FSH and TGFβ1 upregulation of Cyp19a1 and Nr5a in ovary granulosa cells

Cellular distribution of Egr1 transcription in the male rat pituitary gland
oxLDL induces injury and defenestration of human liver sinusoidal endothelial cells via LOX1
The insulin-sensitivity sulphonylurea receptor variant is associated with thyrotoxic paralyis
CONTENTS

VOLUME 53 NUMBER 2

REVIEWS
Role of G-proteins in the differentiation of ephiphyseal chondrocytes
Andrei S Chagin & Henry M Kronenberg

Transcriptional coregulators: emerging roles of SRC family of coactivators in disease pathology
Subhamoy Dasgupta & Bert W O'Malley

Noncoding RNAs and the control of hormonal signaling via nuclear receptor regulation
Silvia Ottaviani, Alexander de Giorgio, Victoria Harding, Justin Stebbing & Leandro Castellano

Structural determinants for binding, activation, and functional selectivity of the angiotensin II receptor
Pitchai Balakumar & Gowraganahalli Jagadeesh

Activation of gill Ca””-sensing receptor as a protective pathway to reduce Ca””-induced cytotoxicity
J Gu, A Y S Law, B H Y Young & C C C Wong

Activation of free fatty acid receptor 1 improves hepatic steatosis through a p38-dependent pathway
Hong-Yi Du, Hung-Tsung Wu, Fang-Hwa Lu, Yu-Chu Su, Hao-Chang Hung, Jin-Shiang Wu, Yi-Ching Yang, Chao-Liang Wu & Chih-Jen Chang

Fish and Lh direct conserved and specific pathways during flatfish semicystic spermatogenesis
Francois Chauvigné, Cintia Zapalter, Diego Crespo, Josep V Planas & Joan Cerdà

Inhibition of HDAC3 promotes ligand-independent PPARγ activation by protein acetylation
Xiaoting Jiang, Xin Ye, Wei Guo, Hongyun Lu & Zhanguo Gao

Replacement of short segments within transmembrane domains of MC2R disrupts retention signal
Davids Fridmanis, Ramona Petrovska, Dace Pjanova, Helgi B Schiöth & Janis Klovins

RESEARCH
Inhibition of leptin-induced vascular extracellular matrix remodelling by adiponectin
Zhi Zhang, Fang Wang, Bing-jian Wang, Guang Chu, Qunan Cao, Bao-Gui Sun & Qi-yun Dai

Activation of free fatty acid receptor 1 improves hepatic steatosis through a p38-dependent pathway
Hong-Yi Du, Hung-Tsung Wu, Fang-Hwa Lu, Yu-Chu Su, Hao-Chang Hung, Jin-Shiang Wu, Yi-Ching Yang, Chao-Liang Wu & Chih-Jen Chang

Contents continued on the inside back cover