CONTENTS

VOLUME 55 NUMBER 3

EDITORIAL
A bright future ahead for Journal of Molecular Endocrinology
Adrian Clark & Sof Andrikopoulos  E1–E2

THEMATIC REVIEW
Celebrating 75 years of oestradiol
Evan Simpson & Richard J Santen  T1–T20

REVIEW
New insights into the structure and mechanism of iodothyronine deiodinases
Ulrich Schweizer & Clemens Steegborn  R37–R52

RESEARCH
Glucose fluctuation increased hepatocyte apoptosis under lipotoxicity and the involvement of mitochondrial permeability transition opening
Xueyao Yin, Fenping Zheng, Qianqian Pan, Saffei Zhang, Dan Yu, Zhiye Xu & Hong Li  169–181

Modulatory role of miR-205 in angiogenesis and progression of thyroid cancer
Ali Salajegheh, Haleh Vosgha, Atiqur Md Rahman, Mosin Amin, Robert Anthony Smith & Alfred King-Yin Lam  183–196

HC toxin (a HDAC inhibitor) enhances IRS1–Akt signalling and metabolism in mouse myotubes
Hayden Weng Song Tan, Arthur Yi Loong Sim, Su Ling Huang, Ying Long & Yun Chau Long  197–207

Polymorphism of IL37 gene as a protective factor for autoimmune thyroid disease
Ni Yan, Shuai Meng, Rong-Hua Song, Qiu Qin, Xuan Wang, Qinming Yao, Yanfei Jiang, Wenjuan Jiang, Liangfeng Shi, Jian Xu & Jinian Zhang  209–218

miR-410 enhanced hESC-derived pancreatic endoderm transplant to alleviate gestational diabetes mellitus
Yang Mi, Na Guo, Tongqiang He, Jing Ji, Zhelin Li & Pu Huang  219–229

Progranulin induces adipose insulin resistance and autophagic imbalance via TNFR1 in mice
Bo Zhou, Huixia Li, Jiali Liu, Lin Xu, Qinyue Guo, Hongshi Sun & Shufang Wu  231–243

GLP1 protects cardiomyocytes from palmitate-induced apoptosis via Akt/GSK3β/b-catenin pathway
Ying Ying, Huazhang Zhu, Zhen Liang, Xiaosong Ma & Shiewei Li  245–262

Polymorphism of IL37 gene as a protective factor for autoimmune thyroid disease
Ni Yan, Shuai Meng, Rong-Hua Song, Qiu Qin, Xuan Wang, Qinming Yao, Yanfei Jiang, Wenjuan Jiang, Liangfeng Shi, Jian Xu & Jinian Zhang  209–218

miR-410 enhanced hESC-derived pancreatic endoderm transplant to alleviate gestational diabetes mellitus
Yang Mi, Na Guo, Tongqiang He, Jing Ji, Zhelin Li & Pu Huang  219–229

Progranulin induces adipose insulin resistance and autophagic imbalance via TNFR1 in mice
Bo Zhou, Huixia Li, Jiali Liu, Lin Xu, Qinyue Guo, Hongshi Sun & Shufang Wu  231–243

GLP1 protects cardiomyocytes from palmitate-induced apoptosis via Akt/GSK3β/b-catenin pathway
Ying Ying, Huazhang Zhu, Zhen Liang, Xiaosong Ma & Shiewei Li  245–262

Contents continued on the inside back cover

www.bioscientifica.com  published by bioscientifica
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

Contents continued from outside back cover

CRTC2 and Nedd4 ligase involvement in FSH and TGFβ1 upregulation of connexin43 gap junction
Wei-Ling Fang, Si-Yi Lai, Wei-An Lai, Ming-Ting Lee, Cheng-Fang Liao, Fang-Chun Ke & Juan-Juan Hwang

Proteomic changes of the porcine small intestine in response to chronic heat stress
Yanjun Cui & Xianhong Gu

ERRATUM
Uncoupling protein 2 negatively regulates glucose-induced glucagon-like peptide 1 secretion
Hongjie Zhang, Jing Li, Xiangying Liang, Yun Luo, Xi Zhen & Chen-Yu Zhang

263-275
277-293