

Contents continued from outside back cover

#### RESEARCH

Altered VEGF-stimulated Ca <sup>2+</sup> signaling in part underlies pregnancy-adapted eNOS activity in UAEC Derek S Boeldt, Mary A Grummer, Ronald R Magness & Ian M Bird		changes and impairs insulin signalling 4 Parsanathan Rajesh & Karundevi Balasubramanian	17-66
	1–11	$\begin{array}{l} \mbox{Gastrin induces ductal cell dedifferentiation and} \\ \mbox{$\beta$-cell neogenesis after 90\% pancreatectomy} \\ \mbox{$Noèlia Téllez \& Eduard Montanya} \end{array} \end{array} \end{tabular}$	67-78
Protocatechuic acid exerts a cardioprotective effect in type 1 diabetic rats Yoswaris Semaming, Sirinart Kumfu, Patchareewan Pannangpetch,	13-23	Inhibitory roles of the mammalian GnIH orthologRFRP3 in testicular activities in adult miceShabana Anjum, Amitabh Krishna& Kazuyoshi Tsutsui	79-91
Siriporn C Chattipakorn & Nipon Chattipakorn		Direct stimulation of bone mass by increased	
Low-dose PTH increases osteoblast activity via decreased Mef2c/Sost in senescent osteopenic mice25-33Zuzana Saidak, Carole Le Henaff, Sofia Azzi, Caroline Marty & Pierre J Marie25-33		<b>GH signalling in the osteoblasts of Socs2</b> -/- <b>mice 93-106</b> R Dobie, V E MacRae, C Huesa, R van't Hof, S F Ahmed & C Farquharson	
<b>Regulation of FSH</b> β <b>induction in L</b> βT2 <b>cells by</b> <b>BMP2 and an Activin A/BMP2 chimera, AB215</b> Jae Woo Jung, Chihoon Ahn, Sun Young Shim, Peter C Gray, Witek Kwiatkowski & Senyon Choe	35-45		

Phthalate exposure in utero causes epigenetic



# CONTENTS

VOLUME 223 NUMBER 1

#### EDITORIAL

20 YEARS OF LEPTIN: What we know and what the future holds Steve O'Rahilly	E1-E3
THEMATIC REVIEWS	
20 YEARS OF LEPTIN: Leptin at 20: an overview Jeffrey Friedman	T1-T8
20 YEARS OF LEPTIN: Insights into signaling	

## assemblies of the leptin receptor T9-T23

Frank Peelman, Lennart Zabeau, Kedar Moharana, Savvas N Savvides & Jan Tavernier

20 YEARS OF LEPTIN: Connecting leptin signaling to biological function Margaret B Allison & Martin G Myers Jr	T25-T35
20 YEARS OF LEPTIN: Leptin and reproduction: past milestones, present undertakings, and future endeavors Farid F Chehab	T37-T48
20 YEARS OF LEPTIN: Role of leptin in human reproductive disorders Sharon H Chou & Christos Mantzoros	T49-T62
20 YEARS OF LEPTIN: Human disorders of leptin action I Sadaf Farooqi & Stephen O'Rahilly	T63-T70

20 YEARS OF LEPTIN: Leptin in common obesity and associated disorders of metabolism Alex M DePaoli ISSN 0022-0795 (PRINT) ISSN 1479-6805 (ONLINE)

20 YEARS OF LEPTIN: Role of leptin in energy homeostasis in humans Michael Rosenbaum & Rudolph L Leibel	Т83-Т96
THEMATIC RESEARCH	
Morbid obesity attenuates the skeletal abnormalities associated with leptin deficiency in mice Russell T Turner, Kenneth A Philbrick, Carmen P Wong, Dawn A Olson, Adam J Branscum & Urszula T Iwaniec	M1-M15
Early-postnatal changes in adiposity and lipids profile by transgenerational developmental programming in swine with obesity/leptin resistance Antonio Gonzalez-Bulnes, Susana Astiz, Cristina Ovilo, Clemente J Lopez-Bote, Raul Sanchez-Sanchez, Maria L Perez-Solana, Laura Torres-Rovira, Miriam Ayuso & Jorge Gonzalez	M17-M29
UCP1 is present in porcine adipose tissue and is responsive to postnatal leptin Alison Mostyn, Linda Attig, Thibaut Larcher, Samir Dou, Pascale Chavatte-Palmer, Monia Boukthir, Arieh Gertler, Jean Djiane, Michael E Symonds & Latifa Abdennebi-Najar	M31-M38

### REVIEW

**Thyroid hormone and the stunned myocardium**R1-R8Dimitri Novitzky & David K C Cooper

Contents continued on the inside back cover





T71-T81