

CONTENTS

VOLUME 116 • NUMBER 10

CONTENTS i-iv
 EDITOR'S CHOICE v
 FEATURES vi-vii

PROSPECTS

Mechanisms Regulating Acquisition of Platelet-Derived Factor V/Va by Megakaryocytes
Jacqueline M. Gertz and Beth A. Bouchard 2121
 ACCEPTED MANUSCRIPT ONLINE 19 MARCH 2015

Turning Bone Morphogenetic Protein 2 (BMP2) on and off in Mesenchymal Cells
Melissa B. Rogers, Tapan A. Shah, and Nadia N. Shaikh 2127
 ACCEPTED MANUSCRIPT ONLINE 16 MARCH 2015

Genetic Approaches To Identifying Novel Osteoporosis Drug Targets
Robert Brommage 2139
 ACCEPTED MANUSCRIPT ONLINE 1 APRIL 2015

Role and Regulation of Myeloid Zinc Finger Protein 1 in Cancer
Taka Eguchi, Thomas Prince, Barbara Wegiel, and Stuart K Calderwood 2146
 ACCEPTED MANUSCRIPT ONLINE 21 APRIL 2015

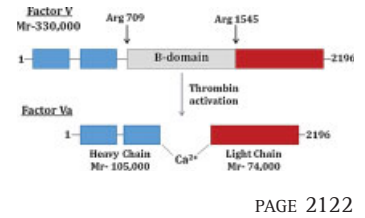
FASTTRACK

miR-544 Regulates Dairy Goat Male Germline Stem Cell Self-Renewal via Targeting PLZF
Wencong Song, Hailong Mu, Jiang Wu, Mingzhi Liao, Haijing Zhu, Liming Zheng, Xin He, Bowen Niu, Yuanxin Zhai, Chunling Bai, Anmin Lei, Guangpeng Li, and Jinlian Hua 2155
 ACCEPTED MANUSCRIPT ONLINE 24 MARCH 2015

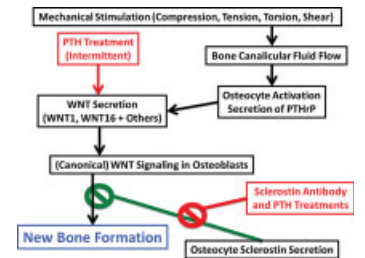
ARTICLES

MicroRNA-150 Protects Against Pressure Overload-Induced Cardiac Hypertrophy
Wanli Liu, Yu Liu, Yan Zhang, Xueyong Zhu, Rui Zhang, Lihua Guan, Qizhu Tang, Hong Jiang, Congxin Huang, and He Huang 2166
 ACCEPTED MANUSCRIPT ONLINE 5 JANUARY 2015

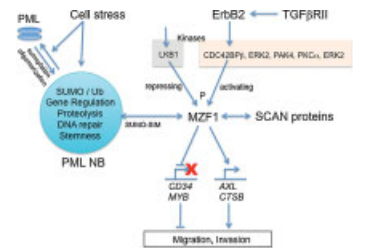
Cover: The domain structure, post-translational modifications, and expressed isoforms of MZF1. See article by Eguchi et al. on pages 2146–2154.



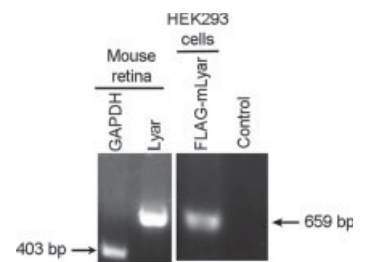
PAGE 2122



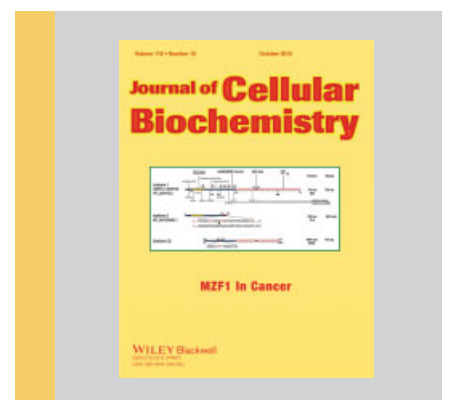
PAGE 2140



PAGE 2152



PAGE 2182



CONTENTS

C O N T I N U E D



PAGE 2191

Lyar Is a New Ligand for Retinal Pigment Epithelial Phagocytosis

Feiye Guo, Ying Ding, Nora B. Caberoy, Gabriela Alvarado, Robert Liu, Chen Shen, Jisu Yu, Yixiong Zhou, Enrique Salero, Michelle E. LeBlanc, Weiwen Wang, and Wei Li

2177

ACCEPTED MANUSCRIPT ONLINE 3 MARCH 2015

Different Impact Of Antiretroviral Drugs On Bone Differentiation In An In Vitro Model

Vincenzo Esposito, Angelica Perna, Angela Lucariello, Maria Aurora Carleo, Rosaria Viglietti, Vincenzo Sangiovanni, Nicola Coppola, Germano Guerra, Antonio De Luca, and Antonio Chirianni

2188

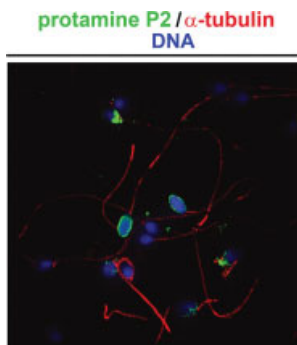
ACCEPTED MANUSCRIPT ONLINE 23 MARCH 2015

Post-Translational Modifications of Histones in Human Sperm

Jana Krejčí, Lenka Stixová, Eva Pagáčová, Soňa Legartová, Stanislav Kozubek, Gabriela Lochmanová, Zbyněk Zdráhal, Petra Sehnalová, Siarhei Dabravolski, Jan Hejátko, and Eva Bártoová

2195

ACCEPTED MANUSCRIPT ONLINE 23 MARCH 2015



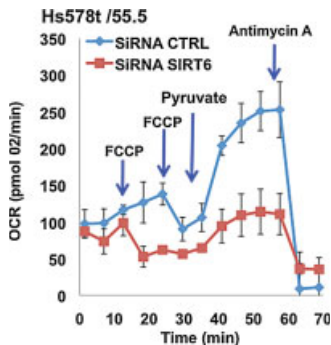
PAGE 2200

The RUNX2 Transcription Factor Negatively Regulates SIRT6 Expression to Alter Glucose Metabolism in Breast Cancer Cells

Moran Choe, Jessica L. Brusgard, Saranya Chumsri, Lekhana Bhandary, Xianfeng Frank Zhao, Song Lu, Olga G. Goloubeva, Brian M. Polster, Gary M. Fiskum, Geoffrey D. Girnun, Myoung Sook Kim, and Antonino Passaniti

2210

ACCEPTED MANUSCRIPT ONLINE 24 MARCH 2015



PAGE 2219

Increased SPHK2 Transcription of Human Colon Cancer Cells in Serum-Depleted Culture: The Involvement of CREB Transcription Factor

Naoki Mizutani, Yukari Omori, Koji Tanaka, Hiromi Ito, Akira Takagi, Tetsuhito Kojima, Masahiro Nakatochi, Hideo Ogiso, Yoshiyuki Kawamoto, Mitsuhiro Nakamura, Motoshi Suzuki, Mamoru Kyogashima, Keiko Tamiya-Koizumi, Yoshinori Nozawa, and Takashi Murate

2227

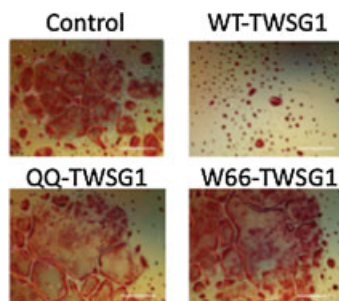
ACCEPTED MANUSCRIPT ONLINE 24 MARCH 2015

The Function of Twisted Gastrulation in Regulating Osteoclast Differentiation is Dependent on BMP Binding

Raphael Huntley, Julia Davydova, Anna Petryk, Charles J. Billington Jr, Eric D. Jensen, Kim C. Mansky, and Rajaram Gopalakrishnan

2239

ACCEPTED MANUSCRIPT ONLINE 24 MARCH 2015



PAGE 2242

Chondroitin Sulfate-E Binds to Both Osteoactivin and Integrin $\alpha V\beta 3$ and Inhibits Osteoclast Differentiation

Tatsuya Miyazaki, Satoshi Miyauchi, Takahisa Anada, Akira Tawada, and Osamu Suzuki

2247

ACCEPTED MANUSCRIPT ONLINE 26 MARCH 2015

ROS-Induced Nuclear Translocation of Calpain-2 Facilitates Cardiomyocyte Apoptosis in Tail-Suspended Rats

Hui Chang, Juan-Juan Sheng, Lin Zhang, Zhi-Jie Yue, Bo Jiao, Jin-Sheng Li, and Zhi-Bin Yu

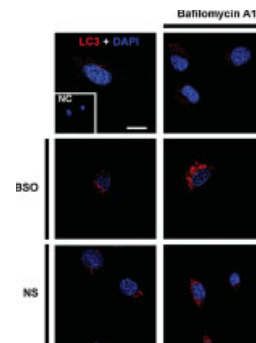
2258

ACCEPTED MANUSCRIPT ONLINE 26 MARCH 2015

New Insights In Intestinal Sar1B GTPase Regulation and Role in Cholesterol Homeostasis

Alain Sané, Ernest Seidman, Schohraya Spahis, Valérie Lamantia, Carole Garofalo, Alain Montoudis, Valérie Marcil, and Emile Levy. **2270**

ACCEPTED MANUSCRIPT ONLINE 30 MARCH 2015



PAGE 2287

Glutathione Depletion Induces Spermatogonial Cell Autophagy

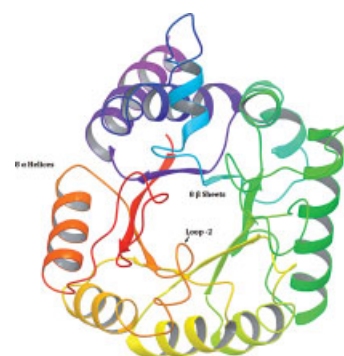
Héctor Mancilla, Rodrigo Maldonado, Karina Cereceda, Franz Villarroel-Espíndola, Marco Montes de Oca, Constanza Angulo, Maite A. Castro, Juan C. Slebe, Juan C. Vera, Sergio Lavandero, and Ilona I. Concha **2283**

ACCEPTED MANUSCRIPT ONLINE 31 MARCH 2015

Computational Modeling of Dapsone Interaction With Dihydropteroate Synthase in *Mycobacterium leprae*; Insights Into Molecular Basis of Dapsone Resistance in Leprosy

Sundeep Chaitanya V., Madhusmita Das, Pritesh Bhat, and Mannam Ebenezer. **2293**

ACCEPTED MANUSCRIPT ONLINE 2 APRIL 2015



PAGE 2296

Resveratrol Regulates the Quiescence-Like Induction of Activated Stellate Cells by Modulating the PPAR γ /SIRT1 Ratio

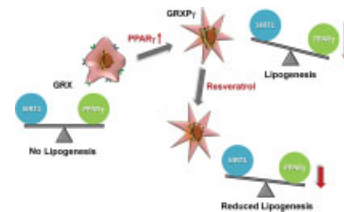
Izabel Cristina Custódio de Souza, Leo Anderson Meira Martins, Mariana de Vasconcelos, Cleverson Moraes de Oliveira, Florencia Barbé-Tuana, Cláudia Balbinotti Andrade, Letícia Ferreira Pettenuzzo, Radovan Borojevic, Rogério Margis, Regina Guaragna, and Fátima Costa Rodrigues Guma. **2304**

ACCEPTED MANUSCRIPT ONLINE 2 APRIL 2015

Akt Activation and Inhibition of Cytochrome C Release: Mechanistic Insights into Leptin-promoted Survival of Type II Alveolar Epithelial Cells

Hui Chen, Zhen-Wei Liang, Zhen-Hua Wang, Jian-Ping Zhang, Bo Hu, Xiang-Bin Xing, and Wei-Bin Cai. **2313**

ACCEPTED MANUSCRIPT ONLINE 2 APRIL 2015



PAGE 2311

miR-142-3p Is a Regulator of the TGF β -Mediated Vascular Smooth Muscle Cell Phenotype

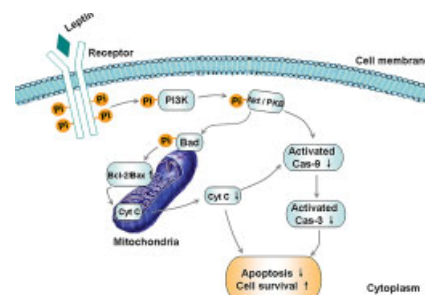
Kwangho Kim, Dong Kwon Yang, Sunghwan Kim, and Hara Kang. **2325**

ACCEPTED MANUSCRIPT ONLINE 2 APRIL 2015

Disulfiram/Copper-Disulfiram Damages Multiple Protein Degradation and Turnover Pathways and Cytotoxicity is Enhanced by Metformin in Oesophageal Squamous Cell Carcinoma Cell Lines

Rupal Jivan, Leonard Howard Damelin, Monica Birkhead, Amanda Louise Rousseau, Robin Bruce Veale, and Demetra Mavri-Damelin **2334**

ACCEPTED MANUSCRIPT ONLINE 3 APRIL 2015



PAGE 2322

Lamin A/C Acts as an Essential Factor in Mesenchymal Stem Cell Differentiation Through the Regulation of the Dynamics of the Wnt/ β -Catenin Pathway

Sandra Bermeo, Christopher Vidal, Hong Zhou, and Gustavo Duque **2344**

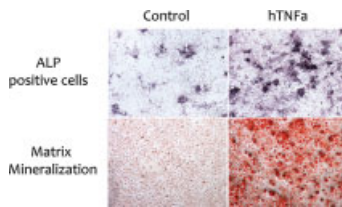
ACCEPTED MANUSCRIPT ONLINE 3 APRIL 2015

CONTENTS

Protective Role of Smad6 in Inflammation-Induced Valvular Cell Calcification

Xin Li, Jina Lim, Jinxiu Lu, Taylor M Pedego, Linda Demer, and Yin Tintut 2354

ACCEPTED MANUSCRIPT ONLINE 10 APRIL 2015



PAGE 2358

Heat Stress Induces Extended Plateau of Hsp70 Accumulation – A Possible Cytoprotection Mechanism in Hepatic Cells

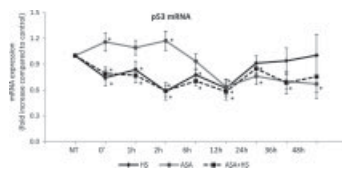
Biljana Miova, Suzana Dinevska-Kjovkarovska, Juan V. Esplugues, and Nadezda Apostolova 2365

ACCEPTED MANUSCRIPT ONLINE 9 APRIL 2015

HCBP6 Modulates Triglyceride Homeostasis in Hepatocytes Via the SREBP1c/FASN Pathway

Li-Li Gao, Min Li, Qi Wang, Shun-Ai Liu, Jin-Qian Zhang, and Jun Cheng 2375

ACCEPTED MANUSCRIPT ONLINE 8 APRIL 2015

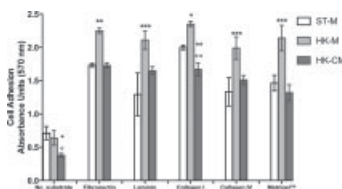


PAGE 2371

Colorectal Cancer Metastases Settle in the Hepatic Microenvironment Through $\alpha 5 \beta 1$ Integrin

Chiara Pelillo, Alberta Bergamo, Hilaria Mollica, Marco Bestagno, and Gianni Sava. 2385

ACCEPTED MANUSCRIPT ONLINE 9 APRIL 2015

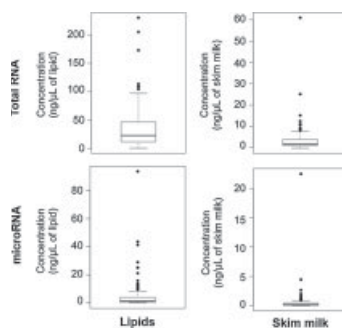


PAGE 2389

Human Milk MicroRNA and Total RNA Differ Depending on Milk Fractionation

Mohammed Alsaweed, Anna R. Hepworth, Christophe Lefèvre, Peter E. Hartmann, Donna T. Geddes, and Foteini Hassiotou 2397

ACCEPTED MANUSCRIPT ONLINE 28 APRIL 2015



PAGE 2403

Platelet-Rich Plasma Increases Growth And Motility Of Adipose Tissue-Derived Mesenchymal Stem Cells And Controls Adipocyte Secretory Function

Vittoria D'Esposito, Federica Passaretti, Giuseppe Perruolo, Maria Rosaria Ambrosio, Rossella Valentino, Francesco Oriente, Gregory A. Raciti, Cecilia Nigro, Claudia Miele, Gilberto Sammartino, Francesco Beguinot, and Pietro Formisano 2408

ACCEPTED MANUSCRIPT ONLINE 26 MAY 2015