

CONTENTS

VOLUME 115 • NUMBER 6

CONTENTS	i–iii
EDITOR'S CHOICE	iv
FEATURES	v–vi

BENCHMARK

Recent Advances in Thiol and Sulfide Reactive Probes

Ke Wang, Hanjing Peng, and Binghe Wang 1007
ACCEPTED MANUSCRIPT ONLINE 10 JANUARY 2014

PROSPECTS

Mesenchymal Stem Cell Trials for Pulmonary Diseases

Mariana A. Antunes, John G. Laffey, Paolo Pelosi, and Patricia R.M. Rocco 1023
ACCEPTED MANUSCRIPT ONLINE 11 FEBRUARY 2014

FASTTRACK

Down Regulation of miR200c Promotes Radiation-Induced Thymic Lymphoma by Targeting BMI1

Jianguo Cui, Ying Cheng, Pei Zhang, Mingjuan Sun, Fu Gao, Cong Liu, and Jianming Cai 1033
ACCEPTED MANUSCRIPT ONLINE 25 DECEMBER 2013

Expression of DGCR8-Dependent MicroRNAs Is Indispensable for Osteoclastic Development and Bone-Resorbing Activity

Toshifumi Sugatani, Blake E. Hildreth III, Ramiro E. Toribio, Hartmut H. Malluche, and Keith A. Hruska 1043
ACCEPTED MANUSCRIPT ONLINE 8 JANUARY 2014

ARTICLES

S6 Kinase 2 Is Bound to Chromatin-Nuclear Matrix Cellular Fractions and Is Able to Phosphorylate Histone H3 at Threonine 45 In Vitro and In Vivo

Heba M.S. Ismail, Paul J. Hurd, Mahmoud I.M. Khalil, Tony Kouzarides, Andrew Bannister, and Ivan Gout 1048
ACCEPTED MANUSCRIPT ONLINE 5 APRIL 2013

Osteoblast Adhesion Dynamics: A Possible Role for ROS and LMW-PTP

Gustavo V. O. Fernandes, Alexandre D. M. Cavagis, Carmen V. Ferreira, Beni Olej, Maurício de Souza Leão, Cláudia L. Yano, Maikel Peppelenbosch, José Mauro Granjeiro, and Willian F. Zambuzzi 1063
ACCEPTED MANUSCRIPT ONLINE 14 OCTOBER 2013

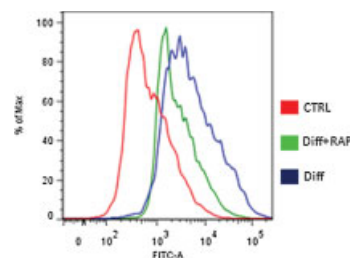
Comparison of Nestin-Expressing Multipotent Stem Cells in the Tongue Fungiform Papilla and Vibrissa Hair Follicle

Sumiyuki Mii, Yasuyuki Amoh, Kensei Katsuoka, and Robert M. Hoffman 1070
ACCEPTED MANUSCRIPT ONLINE 19 OCTOBER 2013

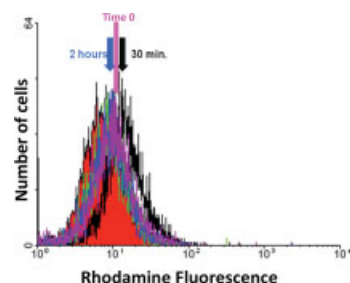
Cover: Phosphorylated DNA-PKs localized to various subcellular structures during mitotic progression. See article by Huang et al. on pages 1077–1088.



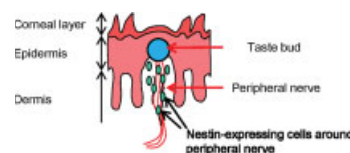
PAGE 1037



PAGE 1059



PAGE 1066

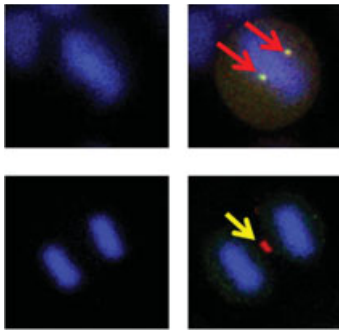


PAGE 1072



CONTENTS

C O N T I N U E D

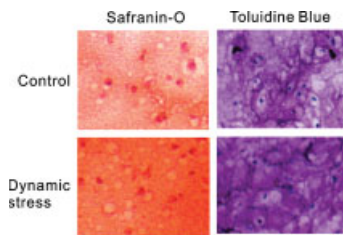


PAGE 1084

DNA-PKcs Associates With PLK1 and Is Involved in Proper Chromosome Segregation and Cytokinesis
Bo Huang, Zeng-Fu Shang, Bing Li, Yu Wang, Xiao-Dan Liu, Shi-Meng Zhang, Hua Guan, Wei-Qing Rang, Jian-An Hu, and Ping-Kun Zhou1077
 ACCEPTED MANUSCRIPT ONLINE 26 OCTOBER 2013

Microenvironment Is Involved in Cellular Response to Hydrostatic Pressures During Chondrogenesis of Mesenchymal Stem Cells
Rui Ye, Jin Hao, Jinlin Song, Zhihe Zhao, Shanbao Fang, Yating Wang, and Juan Li1089
 ACCEPTED MANUSCRIPT ONLINE 19 DECEMBER 2013

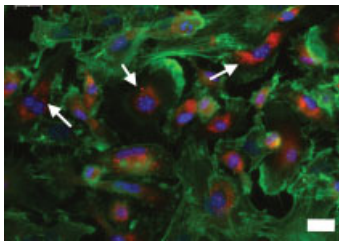
A Proteomics-Driven Assay Defines Specific Plasma Protein Signatures in Different Stages of Ménière's Disease
G. Chiarella, M. Di Domenico, C. Petrolo, M. Saccomanno, R. Rothenberger, A. Giordano, F. Costanzo, E. Cassandro, and G. Cuda1097
 ACCEPTED MANUSCRIPT ONLINE 19 DECEMBER 2013



PAGE 1092

Sulfated Glycosaminoglycans Support Osteoblast Functions and Concurrently Suppress Osteoclasts
Juliane Salbach-Hirsch, Nicole Ziegler, Sylvia Thiele, Stephanie Moeller, Matthias Schnabelrauch, Vera Hintze, Dieter Scharnweber, Martina Rauner, and Lorenz C. Hofbauer1101
 ACCEPTED MANUSCRIPT ONLINE 19 DECEMBER 2013

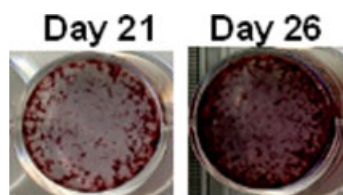
HtrA1 Downregulation Induces Cisplatin Resistance in Lung Adenocarcinoma by Promoting Cancer Stem Cell-Like Properties
Yongqing Xu, Zhiming Jiang, Zhonghui Zhang, Nannan Sun, Ming Zhang, Jian Xie, Tao Li, Yunfeng Hou, and Dawei Wu1112
 ACCEPTED MANUSCRIPT ONLINE 19 DECEMBER 2013



PAGE 1105

Glioma Risks Associate With Genetic Polymorphisms of XRCC1 Gene in Chinese Population
Xingjun Feng, Guozhuan Miao, Yipeng Han, Yi Xu, and Huayun Wu1122
 ACCEPTED MANUSCRIPT ONLINE 25 DECEMBER 2013

Osteoblasts Protect AML Cells From SDF-1-Induced Apoptosis
Kimberly N. Kremer, Amel Dudakovic, Meghan E. McGee-Lawrence, Rachael L. Philips, Allan D. Hess, B. Douglas Smith, Andre J. van Wijnen, Judith E. Karp, Scott H. Kaufmann, Jennifer J. Westendorf, and Karen E. Hedin1128
 ACCEPTED MANUSCRIPT ONLINE 28 DECEMBER 2013



PAGE 1133

Expression of P2X7 ATP Receptor Mediating the IL8 and CCL20 Release in Human Periodontal Ligament Stem Cells
Oriana Trubiani, Alberto L. Horenstein, Francesco Caciagli, Sergio Caputi, Fabio Malavasi, and Patrizia Ballerini1138
 ACCEPTED MANUSCRIPT ONLINE 28 DECEMBER 2013

CONTENTS

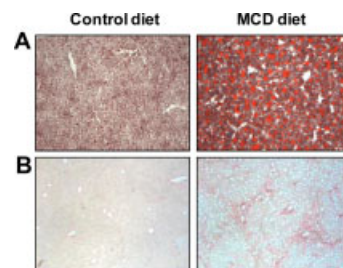
- HIF-1 α Expression as a Protective Strategy of HepG2 Cells Against Fatty Acid-Induced Toxicity**
Wonbaek Yoo, Kyung Hee Noh, Jae Hee Ahn, Ji Hee Yu, Ji A. Seo, Sin Gon Kim, Kyung Mook Choi, Sei Hyun Baik, Dong Seop Choi, Tae Woo Kim, Hyo Joon Kim, and Nan Hee Kim 1147
 ACCEPTED MANUSCRIPT ONLINE 9 JANUARY 2014



PAGE 1141

- Dimethyl Sulfoxide Attenuates Hydrogen Peroxide-Induced Injury in Cardiomyocytes via Heme Oxygenase-1**
Wang Man, Ding Ming, Du Fang, Liang Chao, and Cang Jing 1159
 ACCEPTED MANUSCRIPT ONLINE 10 JANUARY 2014

- Protective Action of Liraglutide in Beta Cells Under Lipotoxic Stress Via PI3K/Akt/FoxO1 Pathway**
Shiying Shao, Mingbo Nie, Cai Chen, Xi Chen, Muxun Zhang, Gang Yuan, Xuefeng Yu, and Yan Yang 1166
 ACCEPTED MANUSCRIPT ONLINE 10 JANUARY 2014

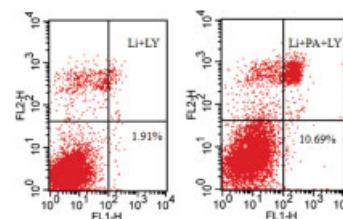


PAGE 1156

- Fetal Liver Stromal Cells Support Blast Growth in Transient Abnormal Myelopoiesis in Down Syndrome Through GM-CSF**
Jun Miyauchi and Hiroyuki Kawaguchi. 1176
 ACCEPTED MANUSCRIPT ONLINE 10 JANUARY 2014

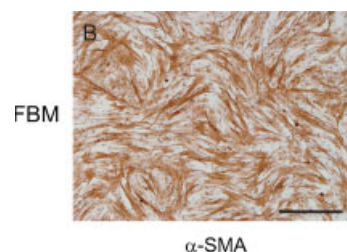
- Interaction of Integrin β 4 With S1P Receptors in S1P- and HGF-Induced Endothelial Barrier Enhancement**
Xiuqin Ni, Yulia Epshtein, Weiguo Chen, Tingting Zhou, Lishi Xie, Joe G.N. Garcia, and Jeffrey R. Jacobson 1187
 ACCEPTED MANUSCRIPT ONLINE 20 JANUARY 2014

- MicroRNA-190 Regulates Hypoxic Pulmonary Vasoconstriction by Targeting a Voltage-Gated K⁺ Channel in Arterial Smooth Muscle Cells**
Shan-Shan Li, Ya-Juan Ran, Dan-Dan Zhang, Shu-Zhen Li, and Daling Zhu 1196
 ACCEPTED MANUSCRIPT ONLINE 20 JANUARY 2014



PAGE 1169

- Vinculin Regulates Assembly of Talin: β 3 Integrin Complexes**
Suman Yadav Nanda, Thuy Hoang, Priya Patel, and Hao Zhang 1206
 ACCEPTED MANUSCRIPT ONLINE 20 JANUARY 2014



PAGE 1180