

CONTENTS

VOLUME 116 • NUMBER 5

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

PROSPECTS

Interactions Between Muscle Tissues and Bone Metabolism <i>Naoyuki Kawao and Hiroshi Kaji</i>	687
ACCEPTED MANUSCRIPT ONLINE 17 DECEMBER 2014	

Regulation of Hypoxia-Inducible Factor-1α by Reactive Oxygen Species : New Developments in an Old Debate <i>Shahzad Movafagh, Sean Crook, and Kim Vo</i>	696
ACCEPTED MANUSCRIPT ONLINE 25 DECEMBER 2014	

FAST TRACK

Quantitative Superresolution Microscopy Reveals Differences in Nuclear DNA Organization of Multiple Myeloma and Monoclonal Gammopathy of Undetermined Significance <i>Chirawadee Sathitruangsak, Christiaan H. Righolt, Ludger Klewes, Pille Tammur, Tiiu Ilus, Anu Tamm, Mari Punab, Adebayo Olujohungbe, and Sabine Mai</i>	704
ACCEPTED MANUSCRIPT ONLINE 10 DECEMBER 2014	

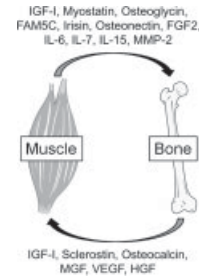
ARTICLES

Vitamin D₃ Metabolites Enhance the NLRP3-Dependent Secretion of IL-1β From Human THP-1 Monocytic Cells <i>Sarah E. Tulk, Kuo-Chieh Liao, Daniel A Muruwe, Yan Li, Paul L. Beck, and Justin A. MacDonald</i>	711
ACCEPTED MANUSCRIPT ONLINE 5 JANUARY 2015	

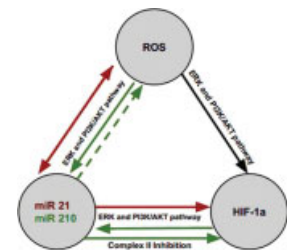
Involvement of Purinergic System in the Release of Cytokines by Macrophages Exposed to Glioma-Conditioned Medium <i>Leticia Scussel Bergamin, Elizandra Braganhol, Fabrício Figueiró, Emerson André Casali, Rafael Fernandes Zanin, Jean Sévigny, and Ana Maria Oliveira Battastini</i>	721
ACCEPTED MANUSCRIPT ONLINE 24 DECEMBER 2014	

miR-124 Negatively Regulates Osteogenic Differentiation and In vivo Bone Formation of Mesenchymal Stem Cells <i>Abdul S. Qadir, Soyoun Um, Heesu Lee, Kyunghwa Baek, Byoung Moo Seo, Gene Lee, Gwan-Shik Kim, Kyung Mi Woo, Hyun-Mo Ryoo, and Jeong-Hwa Baek</i>	730
ACCEPTED MANUSCRIPT ONLINE 25 NOVEMBER 2014	

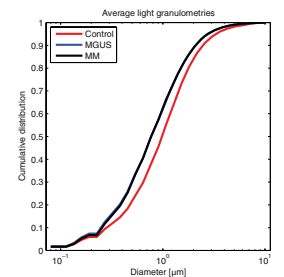
Cover: Heat map of the lncRNA expression. See article by Wang et al. on pages 809–821.



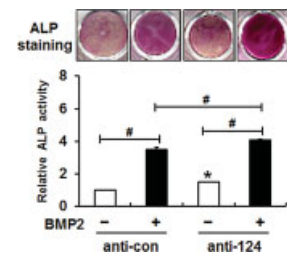
PAGE 692



PAGE 700



PAGE 708



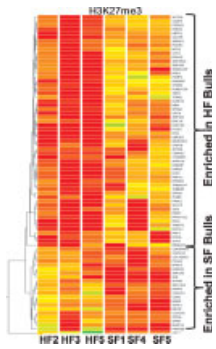
PAGE 739



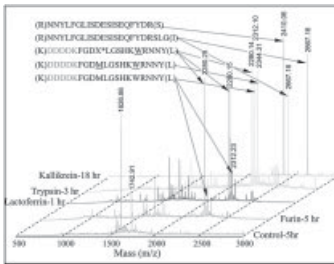
(continued on next page)

CONTENTS

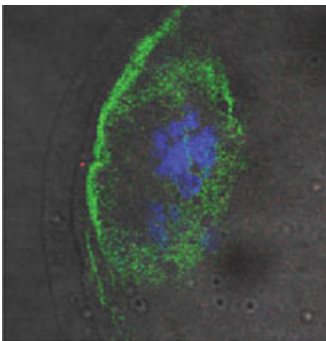
C O N T I N U E D



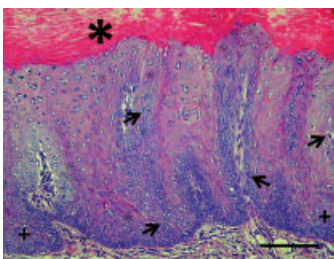
PAGE 747



PAGE 771



PAGE 783



PAGE 790

Differential Histone Modification Status of Spermatozoa in Relation to Fertility of Buffalo Bulls

Arpana Verma, Sandeep Rajput, Sandeep Kumar, Sachinandan De, Atish Kumar Chakravarty, Rakesh Kumar, and Tirtha Kumar Datta 743

ACCEPTED MANUSCRIPT ONLINE 10 DECEMBER 2014

Autocrine/Paracrine Function of Globular Adiponectin: Inhibition of Lipid Metabolism and Inflammatory Response in 3T3-L1 Adipocytes

Yulia Lazra, Alona Falach, Lital Frenkel, Konstantin Rozenberg, Sanford Sampson, and Tovit Rosenzweig 754

ACCEPTED MANUSCRIPT ONLINE 10 DECEMBER 2014

Spp24 Derivatives Stimulate a G_i-Protein Coupled Receptor-Erk1/2 Signaling Pathway and Modulate Gene Expressions in W-20-17 Cells

Ke-Wei Zhao, Elsa J. Brochmann Murray, and Samuel S. Murray 767

ACCEPTED MANUSCRIPT ONLINE 15 DECEMBER 2014

ORC4 Surrounds Extruded Chromatin in Female Meiosis

Hieu Nguyen, Michael A. Ortega, Myungjun Ko, Joel Marh, and W. Steven Ward 778

ACCEPTED MANUSCRIPT ONLINE 15 DECEMBER 2014

Chemopreventive Activity of Systemically Administered Curcumin on Oral Cancer in the 4-Nitroquinoline 1-Oxide Model

Vinicius de Paiva Gonçalves, Adriana Alicia C. Ortega, Morgana R. Guimarães, Fabiana Almeida Curylofo, Carlos Rossa Junior, Daniel Araki Ribeiro, and Luis C. Spolidorio 787

ACCEPTED MANUSCRIPT ONLINE 16 DECEMBER 2014

Reciprocal Modulation of Histone Deacetylase Inhibitors Sodium Butyrate and Trichostatin A on the Energy Metabolism of Breast Cancer Cells

Mariana Figueiredo Rodrigues, Érika Carvalho, Paula Pezzuto, Franklin David Rumjanek, and Nivea Dias Amoêdo 797

ACCEPTED MANUSCRIPT ONLINE 16 DECEMBER 2014

Transcriptome Analysis of Canine Cardiac Fat Pads: Involvement of Two Novel Long Non-Coding RNAs in Atrial Fibrillation Neural Remodeling

Weizong Wang, Ximin Wang, Yujiao Zhang, Zhan Li, Xinxing Xie, Jiangrong Wang, Mei Gao, Shuyu Zhang, and Yinglong Hou 809

ACCEPTED MANUSCRIPT ONLINE 5 JANUARY 2015

NADH-Linked Metabolic Plasticity of MCF-7 Breast Cancer Cells Surviving in a Nutrient-Deprived Microenvironment

Angela M. Otto, Josef Hintermair, and Cornelia Janzon 822

ACCEPTED MANUSCRIPT ONLINE 19 DECEMBER 2014

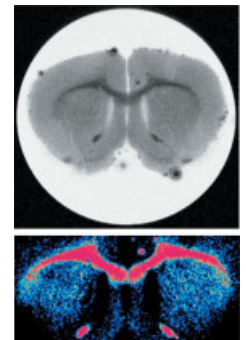
- Anti-Cancer Drugs Reactivate Tumor Suppressor miR-375 Expression in Tongue Cancer Cells**
Hyun Min Jung, Yoel Benarroch, and Edward K.L. Chan. **836**
 ACCEPTED MANUSCRIPT ONLINE 17 DECEMBER 2014

- PPAR β/δ and γ in a Rat Model of Parkinson's Disease: Possible Involvement in PD Symptoms**
Roberta Falcone, Tiziana Marilena Florio, Erica Di Giacomo, Elisabetta Benedetti, Loredana Cristiano, Andrea Antonosanti, Alessia Fidoamore, Mara Massimi, Marcello Alecci, Rodolfo Ippoliti, Antonio Giordano, and Annamaria Cimini **844**
 ACCEPTED MANUSCRIPT ONLINE 19 DECEMBER 2014



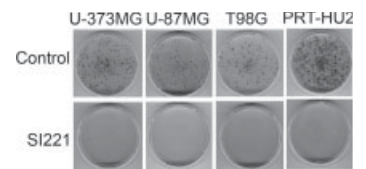
PAGE 841

- SRC Family Kinase Inhibition Through a New Pyrazolo[3,4-*d*]Pyrimidine Derivative as a Feasible Approach for Glioblastoma Treatment**
Elisa Ceccherini, Paola Indovina, Claudio Zamperini, Elena Dreassi, Nadia Casini, Ornella Cutaia, Iris Maria Forte, Francesca Pentimalli, Luca Esposito, Maria Sole Polito, Silvia Schenone, Maurizio Botta, and Antonio Giordano. **856**
 ACCEPTED MANUSCRIPT ONLINE 17 DECEMBER 2014

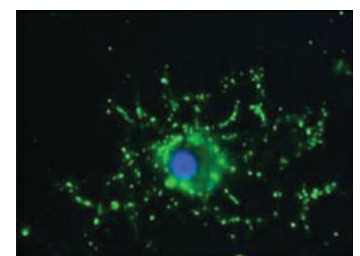


PAGE 847

- Immunophenotypic Characterization of Human Glioblastoma Stem Cells: Correlation With Clinical Outcome**
Gianfranca Miconi, Paola Palumbo, Soheila Raysi Dehcordi, Cristina La Torre, Francesca Lombardi, Zoran Evtoski, Anna Maria Cimini, Renato Galzio, Maria Grazia Cifone, and Benedetta Cinque **864**
 ACCEPTED MANUSCRIPT ONLINE 5 JANUARY 2015



PAGE 859



PAGE 871