

# CONTENTS

Journal of **Cellular  
Biochemistry**

VOLUME 110 • NUMBER 3

CONTENTS ..... i

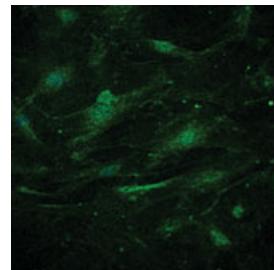
FEATURES ..... iv

## PROSPECTS

### **β-Catenin—A Supporting Role in the Skeleton**

*Natasha Case and Janet Rubin* ..... 545

PUBLISHED ONLINE 5 APRIL 2010

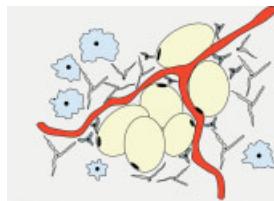


PAGE 548

### **Smurf Control in Bone Cells**

*Lianping Xing, Ming Zhang, and Di Chen* ..... 554

PUBLISHED ONLINE 5 APRIL 2010



PAGE 565

### **Cellular Models for Understanding Adipogenesis, Adipose Dysfunction, and Obesity**

*Andrea Armani, Caterina Mammi, Vincenzo Marzolla, Matilde Calanchini,*

*Antonella Antelmi, Giuseppe M.C. Rosano, Andrea Fabbri, and*

*Massimiliano Caprio* ..... 564

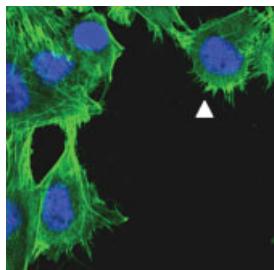
PUBLISHED ONLINE 21 APRIL 2010

### **Biology and Pathology of Rho GTPase, PI-3 Kinase-Akt, and MAP**

#### **Kinase Signaling Pathways in Chondrocytes**

*Frank Beier and Richard F. Loeser* ..... 573

PUBLISHED ONLINE 14 APRIL 2010



PAGE 595

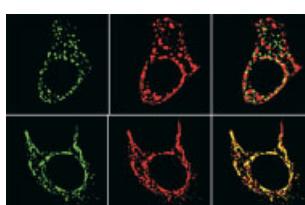
## ARTICLES

### **ASK1-JNK Signaling Cascade Mediates Ad-ST13-Induced Apoptosis in Colorectal HCT116 Cells**

*Min Yang, Mingcan Yu, Dongyin Guan, Jinfa Gu, Xin Cao, Weiyun Wang,*

*Shu Zheng, Yingying Xu, Zonghou Shen, and Xinyuan Liu* ..... 581

PUBLISHED ONLINE 21 APRIL 2010



PAGE 603

### **The Carboxy-Terminal Tail of Connexin43 Gap Junction Protein Is Sufficient to Mediate Cytoskeleton Changes in Human Glioma Cells**

*Sophie Crespin, John Bechberger, Marc Mesnil, Christian C. Naus, and*

*Wun-Chey Sin* ..... 589

PUBLISHED ONLINE 21 APRIL 2010

### **Cloning and Characterisation of GIRK1 Variants Resulting From Alternative RNA Editing of the KCNJ3 Gene Transcript in a Human Breast Cancer Cell Line**

*Valerie Wagner, Elke Stadelmeyer, Monika Riederer, Peter Regitnig,*

*Astrid Gorischek, Trevor DeVaney, Kurt Schmidt, Helmut A. Tritthart,*

*Koret Hirschberg, Thomas Bauernhofer, and Wolfgang Schreibmayer* ..... 598

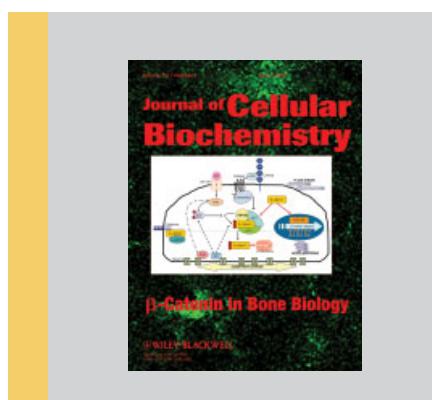
PUBLISHED ONLINE 14 APRIL 2010

### **PR-Set7-Mediated Monomethylation of Histone H4 Lysine 20 at Specific Genomic Regions Induces Transcriptional Repression**

*Lauren M. Congdon, Sabrina I. Houston, Chendhore S. Veerappan, Tanya M. Spektor, and Judd C. Rice* ..... 609

PUBLISHED ONLINE 1 APRIL 2010

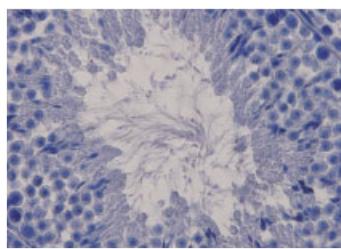
**Cover:** The cover shows a schematic diagram of β-Catenin activation by mechanical factors. The background shows osteoblast cells immunostained for β-Catenin. Please see "Prospect" in this issue by Case and Rubin, pages 545–553.



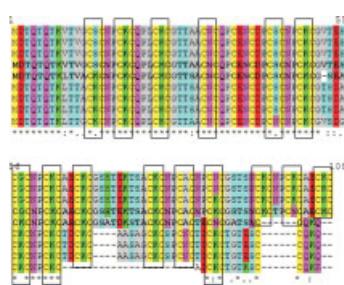
(continued on next page)

# CONTENTS

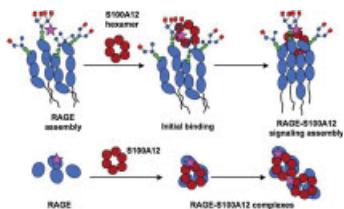
CONTINUED



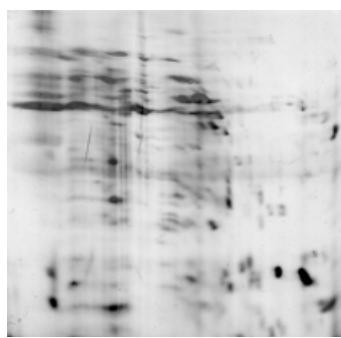
PAGE 627



PAGE 640



PAGE 656



PAGE 663

## Exclusive Expression of a Membrane-Bound Spink3-Interacting Serine Protease-Like Protein TESPL in Mouse Testis

*Chung-Mao Ou, Shih-Ren Lin, Han-Jia Lin, Ching-Wei Luo, and Yee-Hsiung Chen* ..... 620

PUBLISHED ONLINE 21 APRIL 2010

## Isolation and Characterization of a Novel Copper-Inducible Metallothionein Gene of a Ciliate, *Tetrahymena tropicalis lahorensis*

*Raheela Chaudhry and Abdul Rauf Shakoori* ..... 630

PUBLISHED ONLINE 14 APRIL 2010

## Carboxylated N-Glycans on RAGE Promote S100A12 Binding and Signaling

*Geetha Srikrishna, Jonamani Nayak, Bernd Weigle, Achim Temme, Dirk Foell, Larnele Hazelwood, Anna Olsson, Niels Volkmann, Dorit Hanein, and Hudson H. Freeze* ..... 645

PUBLISHED ONLINE 14 APRIL 2010

## Proteomic Analysis for the Anti-Apoptotic Effects of Cystamine on Apoptosis-Prone Macrophage

*Shao-Hsuan Kao, Tsai-Ching Hsu, Jau-Song Yu, Jeng-Ting Chen, Sin-Lun Li, Wen-Xian Lai, and Bor-Show Tzang* ..... 660

PUBLISHED ONLINE 26 MARCH 2010

## Analysis of Hairless Corepressor Mutants to Characterize Molecular Cooperation With the Vitamin D Receptor in Promoting the Mammalian Hair Cycle

*Jui-Cheng Hsieh, Stephanie A. Slater, G. Kerr Whitfield, Jamie L. Dawson, Grace Hsieh, Craig Sheedy, Carol A. Haussler, and Mark R. Haussler* ..... 671

PUBLISHED ONLINE 5 APRIL 2010

## Targeted Disruption of Nemo-Like Kinase Inhibits Tumor Cell Growth by Simultaneous Suppression of Cyclin D1 and CDK2 in Human Hepatocellular Carcinoma

*Kwang Hwa Jung, Jeong Kyu Kim, Ji Heon Noh, Jung Woo Eun, Hyun Jin Bae, Hong Jian Xie, Young Min Ahn, Won Sang Park, Jung Young Lee, and Suk Woo Nam* ..... 687

PUBLISHED ONLINE 26 MARCH 2010

## Berberine Suppresses Neuroinflammatory Responses Through AMP-Activated Protein Kinase Activation in BV-2 Microglia

*Dah-Yuu Lu, Chih-Hsin Tang, Yi-Hung Chen, and I-Hua Wei* ..... 697

PUBLISHED ONLINE 5 APRIL 2010

## Characterization of an Importin in $\alpha/\beta$ -Recognized Nuclear Localization Signal in $\beta$ -Dystroglycan

*Bárbara Lara-Chacón, Mario Bermúdez de León, Daniel Leocadio, Pablo Gómez, Lizeth Fuentes-Mera, Ivette Martínez-Vieyra, Arturo Ortega, David A. Jans, and Bulmaro Cisneros* ..... 706

PUBLISHED ONLINE 5 APRIL 2010

(continued on next page)

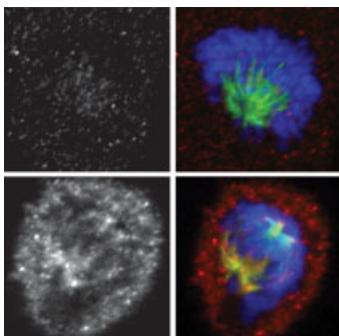
# CONTENTS

CONTINUED

- Integrin  $\beta 4$  Attenuates SHP-2 and MAPK Signaling and Reduces Human Lung Endothelial Inflammatory Responses**  
*Weiguo Chen, Joe G.N. Garcia, and Jeffrey R. Jacobson* ..... 718  
 PUBLISHED ONLINE 21 APRIL 2010

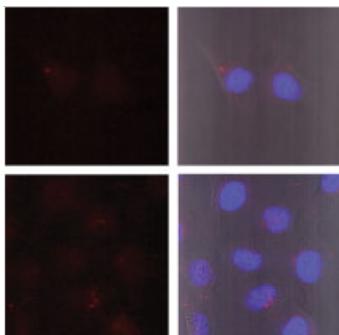
- DNA Damage During Mitosis Invokes a JNK-Mediated Stress Response That Leads to Cell Death**  
*Chin-Yee Ho and Hoi-Yeung Li* ..... 725  
 PUBLISHED ONLINE 1 APRIL 2010

- A Novel Intracellular Isoform of VEGFR-1 Activates Src and Promotes Cell Invasion in MDA-MB-231 Breast Cancer Cells**  
*Belen Mezquita, Jovita Mezquita, Montserrat Pau, and Cristóbal Mezquita* ..... 732  
 PUBLISHED ONLINE 26 MARCH 2010



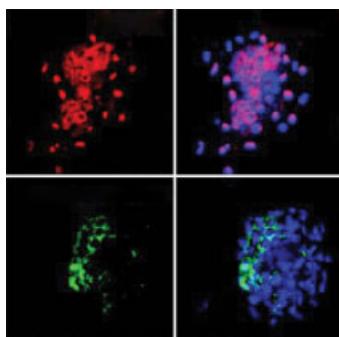
PAGE 728

- Synthesis and Characterization of Dexamethasone-Conjugated Linear Polyethylenimine as a Gene Carrier**  
*Hyunjung Kim, Yun Mi Bae, Hyun Ah Kim, Hyesun Hyun, Gwang Sig Yu, Joon Sig Choi, and Minhyung Lee* ..... 743  
 PUBLISHED ONLINE 5 APRIL 2010



PAGE 749

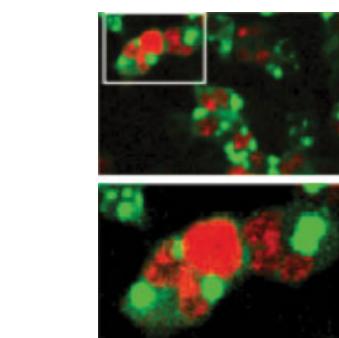
- Expression Profile of Genes Identified in Human Spermatogonial Stem Cell-Like Cells Using Suppression Subtractive Hybridization**  
*Jung Ki Yoo, Jung Jin Lim, Jung Jae Ko, Dong Ryul Lee, and Jin Kyeoung Kim* ..... 752  
 PUBLISHED ONLINE 5 APRIL 2010



PAGE 756

- TRAF6 Is Autoinhibited by an Intramolecular Interaction Which Is Counteracted by Trans-Ubiquitination**  
*Kent Z.Q. Wang, Deborah L. Galson, and Philip E. Auron* ..... 763  
 PUBLISHED ONLINE 1 APRIL 2010

- Enhanced Connexin 43 Expression Delays Intra-Mitoite Duration and Cell Cycle Traverse Independently of Gap Junction Channel Function**  
*Scott R. Johnstone, Angela K. Best, Catherine S. Wright, Brant E. Isakson, Rachel J. Errington, and Patricia E. Martin* ..... 772  
 PUBLISHED ONLINE 14 APRIL 2010



PAGE 769

- Role of ERK1/2 in Platelet Lysate-Driven Endothelial Cell Repair**  
*Elia Ranzato, Francesca Boccafoschi, Laura Mazzucco, Mauro Patroni, and Bruno Burlando* ..... 783  
 PUBLISHED ONLINE 5 APRIL 2010

Articles published online in Wiley InterScience,  
 26 March 2010 through 21 April 2010

Volume 110, Number 3, was mailed the week of May 24, 2010.

iii