# TABLE OF CONTENTS

## SPOTLIGHT

Articles of Significant Interest Selected from This Issue by the Editors

## COMMENTARY

**Stress-Free with Rpd3: a Unique Chromatin Complex Mediates the Response to Oxidative Stress**
Stephen L. McDaniel, Brian D. Strahl 3726–3727

## MINIREVIEW

**The Emerging Role of p38 Mitogen-Activated Protein Kinase in Multiple Sclerosis and Its Models**
Dimitry N. Krementsov, Tina M. Thornton, Cory Teuscher, Mercedes Rincon 3728–3734

## ARTICLES

**The Yeast Snt2 Protein Coordinates the Transcriptional Response to Hydrogen Peroxide-Mediated Oxidative Stress**
Lindsey A. Baker, Beatrix M. Ueberheide, Scott Dewell, Brian T. Chait, Deyou Zheng, C. David Allis 3735–3748

**Phosphorylation Regulates FOXC2-Mediated Transcription in Lymphatic Endothelial Cells**

**Platelet-Derived Growth Factor/Vascular Endothelial Growth Factor Receptor Inactivation by Sunitinib Results in Tsc1/Tsc2-Dependent Inhibition of TORC1**
Tram Anh Tran, Lisa Kinch, Samuel Peña-Llopis, Lutz Kockel, Nick Grishin, Huaqi Jiang, James Brugarolas 3762–3779

**Induction of p38δ Expression Plays an Essential Role in Oncogenic ras-Induced Senescence**
Jinny Kwong, Michelle Chen, Dan Lv, Na Luo, Weijun Su, Rong Xiang, Peiqing Sun 3780–3794

**Id2 Complexes with the SNAG Domain of Snai1 Inhibiting Snai1-Mediated Repression of Integrin β4**
Cheng Chang, Xiaofang Yang, Bryan Pursell, Arthur M. Mercurio 3795–3804

**Cap Completion and C-Terminal Repeat Domain Kinase Recruitment Underlie the Initiation-Elongation Transition of RNA Polymerase II**
Michael Lidschreiber, Kristin Leike, Patrick Cramer 3805–3816

**The Human RVB Complex Is Required for Efficient Transcription of Type I Interferon-Stimulated Genes**
Leonid Gnatovskiy, Paolo Mita, David E. Levy 3817–3825

**Control of Energy Balance by Hypothalamic Gene Circuitry Involving Two Nuclear Receptors, Neuron-Derived Orphan Receptor 1 and Glucocorticoid Receptor**
Sun-Gyun Kim, Bora Lee, Dae-Hwan Kim, Juhee Kim, Seunghee Lee, Soo-Kyung Lee, Jae W. Lee 3826–3834

**Regulation of SirT1-Nucleomethylin Binding by rRNA Coordinates Ribosome Biogenesis with Nutrient Availability**
Leixiang Yang, Tanjing Song, Lihong Chen, Neha Kabra, Hong Zheng, John Koomen, Edward Seto, Jiandong Chen 3835–3848

**BRG1 and BRM Chromatin-Remodeling Complexes Regulate the Hypoxia Response by Acting as Coactivators for a Subset of Hypoxia-Inducible Transcription Factor Target Genes**
Johnny A. Sena, Liyi Wang, Cheng-Jun Hu 3849–3863

Continued on following page
DNMT1 Is Regulated by ATP-Citrate Lyase and Maintains Methylation Patterns during Adipocyte Differentiation

Tatiana Londoño Gentile, Chao Lu, Peter M. Lodato, Sarah Tse, Scott H. Olejniczak, Eric S. Witze, Craig B. Thompson, Kathryn E. Wellen

Erythropoietic Defect Associated with Reduced Cell Proliferation in Mice Lacking the 26S Proteasome Shuttling Factor Rad23b


Serine-Threonine Kinase Receptor-Associated Protein (STRAP) Regulates Translation of Type I Collagen mRNAs

Milica Vukmirovic, Zarko Manojlovic, Branko Stefanovic

Autophagy Negatively Regulates Early Axon Growth in Cortical Neurons

Byung-Kwan Ban, Mi-Hee Jun, Hyun-Hee Ryu, Deok-Jin Jang, S. Tariq Ahmad, Jin-A Lee

Molecular Mechanism of SLC5A8 Inactivation in Breast Cancer


The PR/SET Domain Zinc Finger Protein Prdm4 Regulates Gene Expression in Embryonic Stem Cells but Plays a Nonessential Role in the Developing Mouse Embryo

Debora Bogani, Marc A. J. Morgan, Andrew C. Nelson, Ita Costello, Joanna F. McGouran, Benedikt M. Kessler, Elizabeth J. Robertson, Elizabeth K. Bikoff

Expression of Polycomb Targets Predicts Breast Cancer Prognosis

Alba Jene-Sanz, Renáta Váraljai, Alexandra V. Vilkova, Galina F. Khramtsova, Andrey I. Khramtsov, Olufunmilayo I. Olopade, Nuria Lopez-Bigas, Elizaveta V. Benevolenskaya

Tetrahymena Telomerase Holoenzyme Assembly, Activation, and Inhibition by Domains of the p50 Central Hub

Kyunghah Hong, Heather Upton, Edward J. Miracco, Jiansen Jiang, Z. Hong Zhou, Juli Feigon, Kathleen Collins

Cover photograph (Copyright © 2013. American Society for Microbiology. All rights reserved.) A larval Drosophila retina stained to reveal all photoreceptors (Elav, blue) and pioneer R8 photoreceptors (Sens, red). Green fluorescent protein (GFP; green) marks cells that are mutant for daughterless (da−) and express the transgenic daΔLH variant, which lacks one of the Da activation domains. Despite the absence of one activation domain, the retina pattern is not disturbed, since both R8 and other photoreceptors are found in GFP-marked clones. (See related article in November 2012, vol. 32, no. 22, p. 4534.)