

TABLE OF CONTENTS

SPOTLIGHT

- Article of Significant Interest Selected from This Issue by the Editors 2775

MINIREVIEW

- Nuclear Lamins and Neurobiology Stephen G. Young, Hea-Jin Jung, John M. Lee, Loren G. Fong 2776–2785

ARTICLES

- Recombinogenic Telomeres in Diploid *Sorex granarius* (Soricidae, Eulipotyphla) Fibroblast Cells N. S. Zhdanova, I. Draskovic, J. M. Minina, T. V. Karamysheva, C. L. Novo, W.-Y. Liu, R. M. Porreca, A. Gibaud, M. E. Zvereva, D. A. Skvortsov, N. B. Rubtsov, A. Londoño-Vallejo 2786–2799

- Autoactivation of the MDM2 E3 Ligase by Intramolecular Interaction Qian Cheng, Tanjing Song, Lihong Chen, Jiandong Chen 2800–2810

- KAP-1 Promotes Resection of Broken DNA Ends Not Protected by γ -H2AX and 53BP1 in G₁-Phase Lymphocytes Anthony T. Tubbs, Yair Dorsett, Elizabeth Chan, Beth Helmink, Baek-Seung Lee, Putzer Hung, Rosmy George, Andrea L. Bredemeyer, Anuradha Mittal, Rohit V. Pappu, Dipanjan Chowdhury, Nima Mosammaparast, Michael S. Krangel, Barry P. Sleckman 2811–2821

- Regulated Proteolysis of NOTCH2 and NOTCH3 Receptors by ADAM10 and Presenilins Arjan J. Groot, Roger Habets, Sanaz Yahyanejad, Caroline M. Hodin, Karina Reiss, Paul Saftig, Jan Theys, Marc Vooijs 2822–2832

- Inactivation of *Rb* and *E2f8* Synergizes To Trigger Stressed DNA Replication during Erythroid Terminal Differentiation Seda Ghazaryan, Chandler Sy, Tinghui Hu, Xiuli An, Narla Mohandas, Haiqing Fu, Mirit I. Aladjem, Victor T. Chang, Rene Opavsky, Lizhao Wu 2833–2847

- Human Marrow Stromal Cells Downsize the Stem Cell Fraction of Lung Cancers by Fibroblast Growth Factor 10 Masahiko Kanehira, Toshiaki Kikuchi, Arif Santoso, Naoki Tode, Taizou Hirano, Shinya Ohkouchi, Tsutomu Tamada, Hisatoshi Sugiura, Hideo Harigae, Masakazu Ichinose 2848–2856

- HuR Regulates Alternative Splicing of the *TRA2 β* Gene in Human Colon Cancer Cells under Oxidative Stress Yoko Akaike, Kiyoshi Masuda, Yuki Kuwano, Kensei Nishida, Keisuke Kajita, Ken Kurokawa, Yuzuru Satake, Katsutoshi Shoda, Issei Imoto, Kazuhito Rokutan 2857–2873

- PZR Coordinates Shp2 Noonan and LEOPARD Syndrome Signaling in Zebrafish and Mice Jeroen Paardekooper Overman, Jae-Sung Yi, Monica Bonetti, Matthew Soulsby, Christian Preisinger, Matthew P. Stokes, Li Hui, Jeffrey C. Silva, John Overvoorde, Piero Giansanti, Albert J. R. Heck, Maria I. Kontaridis, Jeroen den Hertog, Anton M. Bennett 2874–2889

Mitochondrial Matrix Ca²⁺ Accumulation Regulates Cytosolic NAD⁺/NADH Metabolism, Protein Acetylation, and Sirtuin Expression	Raluca Marcu, Brian M. Wiczer, Christopher K. Neeley, Brian J. Hawkins	2890–2902
Histidine Methylation of Yeast Ribosomal Protein Rpl3p Is Required for Proper 60S Subunit Assembly	Qais Al-Hadid, Kevin Roy, William Munroe, Maria C. Dzialo, Guillaume F. Chanfreau, Steven G. Clarke	2903–2916
A PEX7-Centered Perspective on the Peroxisomal Targeting Signal Type 2-Mediated Protein Import Pathway	Tony A. Rodrigues, Inês S. Alencastre, Tânia Francisco, Pedro Brites, Marc Fransen, Cláudia P. Grou, Jorge E. Azevedo	2917–2928
Mutations on the DNA Binding Surface of TBP Discriminate between Yeast TATA and TATA-Less Gene Transcription	Ivanka Kamenova, Linda Warfield, Steven Hahn	2929–2943
AUTHOR CORRECTION		
Neurofibromatosis Type 1 Alternative Splicing Is a Key Regulator of Ras Signaling in Neurons	Melissa N. Hinman, Alok Sharma, Guangbin Luo, Hua Lou	2944