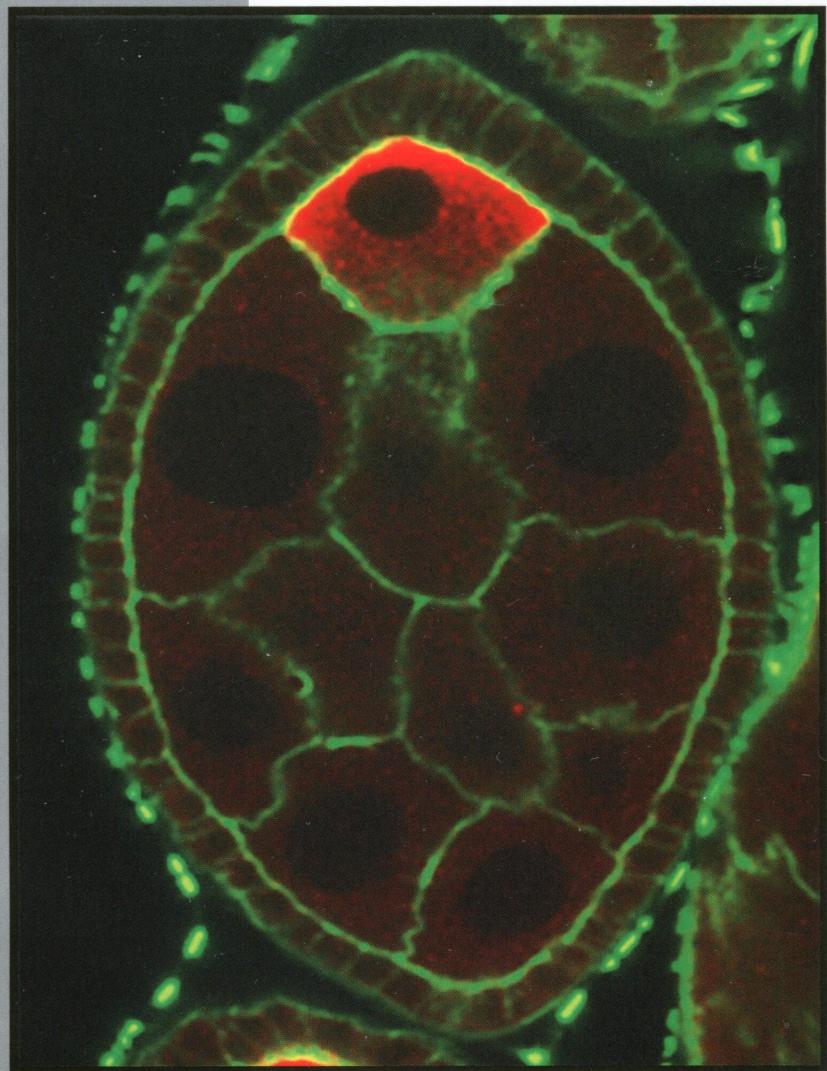


MU
M79/c



Published Twice Monthly
August 2014, Volume 34, Number 15



AMERICAN
SOCIETY FOR
MICROBIOLOGY

MCB
Molecular and Cellular Biology

TABLE OF CONTENTS

SPOTLIGHT

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

2775

MINIREVIEW

- Nuclear Lamins and Neurobiology**

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, Baeck-Seung Lee, Putzer Hung, Rosmy George, Andrea L. Bredemeyer, Anuradha Mittal, Rohit V. Pappu, Dipanjan Chowdhury, Nima Mosammaparast, Michael S. Krangell, 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 Santos, Naoki Tode, Taizou Hirano, Shinya Ohkouchi, Tsutomu Tamada, Hisatoshi Sugiura, Hideo Harigae, Masakazu Ichinose

2848–2856

- HuR Regulates Alternative Splicing of the *TRA2β* 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

2890–2902

Histidine Methylation of Yeast Ribosomal Protein Rpl3p Is Required for Proper 60S Subunit Assembly

2903–2916

A PEX7-Centered Perspective on the Peroxisomal Targeting Signal Type 2-Mediated Protein Import Pathway

2917–2928

Mutations on the DNA Binding Surface of TBP Discriminate between Yeast TATA and TATA-Less Gene Transcription

2929–2943

AUTHOR CORRECTION

Neurofibromatosis Type 1 Alternative Splicing Is a Key Regulator of Ras Signaling in Neurons

2944

Raluca Marcu, Brian M. Wiczer,
Christopher K. Neeley, Brian J.
Hawkins

Qais Al-Hadid, Kevin Roy, William
Munroe, Maria C. Dzialo, Guillaume F.
Chanfreau, Steven G. Clarke

Tony A. Rodrigues, Inês S. Alencastre,
Tânia Francisco, Pedro Brites, Marc
Fransen, Cláudia P. Grou, Jorge E.
Azevedo

Ivanka Kamenova, Linda Warfield,
Steven Hahn