Cover photograph: The inositol polyphosphate-5-phosphatase INPP5E is required for error-free cell division, centrosome maintenance, and genome stability. Shown is a tripolar division in an INPP5E-deficient HeLa cell counterstained to visualize chromosomes (green), tubulin (blue), and centrosomes (red). (See related article in March 2017, vol. 37, no. 6, e00500-16.) (Copyright © 2017 American Society for Microbiology. All Rights Reserved.)

Article of Significant Interest Selected from This Issue by the Editors

Biochemical Regulatory Features of Activation-Induced Cytidine Deaminase Remain Conserved from Lampreys to Humans
Emma M. Quinlan, Justin J. King, Chris T. Amemiya, Ellen Hsu, Mani Larijani

Tet-Mediated DNA Demethylation Is Required for SWI/SNF-Dependent Chromatin Remodeling and Histone-Modifying Activities That Trigger Expression of the Sp7 Osteoblast Master Gene during Mesenchymal Lineage Commitment
Hugo Sepulveda, Alejandro Villagra, Martin Montecino

Analysis of Small Critical Regions of Swi1 Conferring Prion Formation, Maintenance, and Transmission
Stephanie Valtierra, Zhiqiang Du, Liming Li

Alternative Lengthening of Telomeres Mediated by Mitotic DNA Synthesis Engages Break-Induced Replication Processes
Jaewon Min, Woodring E. Wright, Jerry W. Shay

PARN Modulates Y RNA Stability and Its 3'-End Formation
Siddharth Shukla, Roy Parker

Cleavage Alters the Molecular Determinants of Protein Kinase C-δ Catalytic Activity
Jianli Gong, Misun Park, Susan F. Steinberg

CKS Proteins Promote Checkpoint Recovery by Stimulating Phosphorylation of Treslin
Ruiling Mu, John Tat, Robert Zamudio, Yaoyang Zhang, John R. Yates III, Akiko Kumagai, William G. Dunphy, Steven I. Reed

Acylation of Superoxide Dismutase 1 (SOD1) at K122 Governs SOD1-Mediated Inhibition of Mitochondrial Respiration
AUTHOR CORRECTIONS

Correction for Sierra Potchanant et al., “INPP5E Preserves Genomic Stability through Regulation of Mitosis”
Elizabeth A. Sierra Potchanant, Donna Cerabona, Zahi Abdul Sater, Ying He, Zejin Sun, Jeff Gehlhausen, Stéphane Schurmans, Stéphanie Gayral, Grzegorz Nalepa

Correction for Gabai et al., “Heat Shock Transcription Factor Hsf1 Is Involved in Tumor Progression via Regulation of Hypoxia-Inducible Factor 1 and RNA-Binding Protein HuR”
Vladimir L. Gabai, Le Meng, Geunwon Kim, Teresa A. Mills, Ivor J. Benjamin, Michael Y. Sherman