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INSTRUCTIONS TO AUTHORS

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1–18

ARTICLES

- Reconstitution of the Reelin Signaling Pathway in Fibroblasts Demonstrates that Dab1 Phosphorylation Is Independent of Receptor Localization in Lipid Rafts** Harald Mayer, Sarah Duit, Christoph Hauser, Wolfgang J. Schneider, and Johannes Nimpf 19–27
- Inhibition of SIRT1 Catalytic Activity Increases p53 Acetylation but Does Not Alter Cell Survival following DNA Damage** Jonathan M. Solomon, Rao Pasupuleti, Lei Xu, Thomas McDonagh, Rory Curtis, Peter S. DiStefano, and L. Julie Huber 28–38
- Recruitment of DNA Damage Checkpoint Proteins to Damage in Transcribed and Nontranscribed Sequences** Guochun Jiang and Aziz Sancar 39–49
- Transactivation of Platelet-Derived Growth Factor Receptor α by the GTPase-Deficient Activated Mutant of $G\alpha_{12}$** Rashmi N. Kumar, Ji Hee Ha, Rangasudhagar Radhakrishnan, and Danny N. Dhanasekaran 50–62
- Nutrients Suppress Phosphatidylinositol 3-Kinase/Akt Signaling via Raptor-Dependent mTOR-Mediated Insulin Receptor Substrate 1 Phosphorylation** Alexandros Tzatsos and Konstantin V. Kandror 63–76
- Defects in Yolk Sac Vasculogenesis, Chorioallantoic Fusion, and Embryonic Axis Elongation in Mice with Targeted Disruption of *Yap65*** Elizabeth M. Morin-Kensicki, Brian N. Boone, Michael Howell, Jaclyn R. Stonebraker, Jeremy Teed, James G. Alb, Terry R. Magnuson, Wanda O'Neal, and Sharon L. Milgram 77–87
- Distinct Roles of Phosphoinositide-3 Kinase and Phospholipase C γ 2 in B-Cell Receptor-Mediated Signal Transduction** Xuezhi Dai, Yuhong Chen, James Schuman, Zichun Hua, John W. Adamson, Renren Wen, and Demin Wang 88–99
- Distinct Utilization of Effectors and Biological Outcomes Resulting from Site-Specific Ras Activation: Ras Functions in Lipid Rafts and Golgi Complex Are Dispensable for Proliferation and Transformation** David Matallanas, Victoria Sanz-Moreno, Imanol Arozarena, Fernando Calvo, Lorena Agudo-Ibáñez, Eugenio Santos, María T. Berciano, and Piero Crespo 100–116
- PTF1 Is an Organ-Specific and Notch-Independent Basic Helix-Loop-Helix Complex Containing the Mammalian Suppressor of Hairless (RBP-J) or Its Parologue, RBP-L** Thomas M. Beres, Toshihiko Masui, Galvin H. Swift, Ling Shi, R. Michael Henke, and Raymond J. MacDonald 117–130
- Alternative Pathways for the Repair of RAG-Induced DNA Breaks** David M. Weinstock and Maria Jasin 131–139
- Nox2 and Rac1 Regulate H₂O₂-Dependent Recruitment of TRAF6 to Endosomal Interleukin-1 Receptor Complexes** Qiang Li, Maged M. Harraz, Weihong Zhou, Liang N. Zhang, Wei Ding, Yulong Zhang, Tim Eggleston, Charles Yeaman, Botond Banfi, and John F. Engelhardt 140–154
- The Forkhead Transcription Factor FoxO1 Remains Bound to Condensed Mitotic Chromosomes and Stably Remodels Chromatin Structure** Jizhou Yan, Lisha Xu, Gregory Crawford, Zenfeng Wang, and Shawn M. Burgess 155–168

Continued on following page

A Family of Human Zinc Finger Proteins That Bind Methylated DNA and Repress Transcription	Guillaume J. P. Filion, Svetlana Zhenilo, Sergey Salozhin, Daisuke Yamada, Egor Prokhortchouk, and Pierre-Antoine Defossez	169–181
Mice with a Targeted Disruption of the $\text{Cl}^-/\text{HCO}_3^-$ Exchanger AE3 Display a Reduced Seizure Threshold	Moritz Hentschke, Martin Wiemann, Suna Hentschke, Ingo Kurth, Irm Hermans-Borgmeyer, Thomas Seidenbecher, Thomas J. Jentsch, Andreas Gal, and Christian A. Hübner	182–191
Tissue-Specific Differences of p53 Inhibition by Mdm2 and Mdm4	Jason D. Grier, Shunbin Xiong, Ana C. Elizondo-Fraire, John M. Parant, and Guillermina Lozano	192–198
Kaiso-Deficient Mice Show Resistance to Intestinal Cancer	Anna Prokhortchouk, Owen Sansom, Jim Selfridge, Isabel M. Caballero, Sergey Salozhin, Dana Aithozhina, Leandro Cerchietti, Fan Guo Meng, Leonard H. Augenlicht, John M. Mariadason, Brian Hendrich, Ari Melnick, Egor Prokhortchouk, Alan Clarke, and Adrian Bird	199–208
Notch Activation Is an Early and Critical Event during T-Cell Leukemogenesis in Ikaros-Deficient Mice	Alexis Dumortier, Robin Jeannet, Peggy Kirstetter, Eva Kleinmann, MacLean Sellars, Nuno R. dos Santos, Christelle Thibault, Jochen Barths, Jacques Ghysdael, Jennifer A. Punt, Philippe Kastner, and Susan Chan	209–220
Oxidative and Electrophilic Stresses Activate Nrf2 through Inhibition of Ubiquitination Activity of Keap1	Akira Kobayashi, Moon-Il Kang, Yoriko Watai, Kit I. Tong, Takahiro Shibata, Koji Uchida, and Masayuki Yamamoto	221–229
Mitogen-Activated Protein Kinase Cascade-Mediated Histone H3 Phosphorylation Is Critical for Telomerase Reverse Transcriptase Expression/Telomerase Activation Induced by Proliferation	Zheng Ge, Cheng Liu, Magnus Björkholm, Astrid Gruber, and Dawei Xu	230–237
Procollagen C Proteinase Enhancer 1 Genes Are Important Determinants of the Mechanical Properties and Geometry of Bone and the Ultrastructure of Connective Tissues	Barry M. Steiglit, Jaclynn M. Kreider, Elizabeth P. Frankenburg, William N. Pappano, Guy G. Hoffman, Jeffrey A. Meganck, Xiaowen Liang, Magnus Höök, David E. Birk, Steven A. Goldstein, and Daniel S. Greenspan	238–249
<i>Drosophila</i> Paf1 Modulates Chromatin Structure at Actively Transcribed Genes	Karen Adelman, Wenxiang Wei, M. Behfar Ardehali, Janis Werner, Bing Zhu, Danny Reinberg, and John T. Lis	250–260
Focal Adhesion Kinase Is a Substrate and Downstream Effector of SHP-2 Complexed with <i>Helicobacter pylori</i> CagA	Ryouhei Tsutsumi, Atsushi Takahashi, Takeshi Azuma, Hideaki Higashi, and Masanori Hatakeyama	261–276
Akt-Mediated YB-1 Phosphorylation Activates Translation of Silent mRNA Species	Valentina Evdokimova, Peter Ruzanov, Michael S. Anglesio, Alexey V. Sorokin, Lev P. Ovchinnikov, Jonathan Buckley, Timothy J. Triche, Nahum Sonenberg, and Poul H. B. Sorensen	277–292

Innate Immune Responses in NF-κB-Repressing Factor-Deficient Mice	Natali Froese, Michael Schwarzer, Ina Niedick, Ursula Frischmann, Mario Köster, Andrea Kröger, Peter P. Mueller, Mahtab Nourbakhsh, Bastian Pasche, Jörg Reimann, Peter Staeheli, and Hansjörg Hauser	293–302
Direct Interaction with Rab11a Targets the Epithelial Ca²⁺ Channels TRPV5 and TRPV6 to the Plasma Membrane	Stan F. J. van de Graaf, Qing Chang, Arjen R. Mensenkamp, Joost G. J. Hoenderop, and René J. M. Bindels	303–312
Identifying Optimal Lipid Raft Characteristics Required To Promote Nanoscale Protein-Protein Interactions on the Plasma Membrane	Dan V. Nicolau, Jr., Kevin Burrage, Robert G. Parton, and John F. Hancock	313–323
Exploring the Cellular Activity of Camptothecin–Triple-Helix-Forming Oligonucleotide Conjugates	Paola B. Arimondo, Craig J. Thomas, Kahina Oussedik, Brigitte Baldeyrou, Christine Mahieu, Ludovic Halby, Dominique Guianvarc’h, Amélie Lansiaux, Sidney M. Hecht, Christian Bailly, and Carine Giovannangeli	324–333
Central Role for Protein Targeting to Glycogen in the Maintenance of Cellular Glycogen Stores in 3T3-L1 Adipocytes	Cynthia C. Greenberg, Arpad M. Danos, and Matthew J. Brady	334–342
Rhp51-Dependent Recombination Intermediates That Do Not Generate Checkpoint Signal Are Accumulated in <i>Schizosaccharomyces pombe rad60</i> and <i>smc5/6</i> Mutants after Release from Replication Arrest	Izumi Miyabe, Takashi Morishita, Takashi Hishida, Shuji Yonei, and Hideo Shinagawa	343–353
Deletion of the Gene Encoding Proprotein Convertase 5/6 Causes Early Embryonic Lethality in the Mouse	Rachid Essalmani, Josée Hamelin, Jadwiga Marcinkiewicz, Ann Chamberland, Majambu Mbikay, Michel Chrétien, Nabil G. Seidah, and Annik Prat	354–361
Regulation of CD44 Alternative Splicing by SRm160 and Its Potential Role in Tumor Cell Invasion	Chonghui Cheng and Phillip A. Sharp	362–370
The Short-Lived Mata2 Transcriptional Repressor Is Protected from Degradation In Vivo by Interactions with Its Corepressors Tup1 and Ssn6	Jeffrey D. Laney, Erika F. Mobley, and Mark Hochstrasser	371–380
Replication past a <i>trans</i>-4-Hydroxynonenal Minor-Groove Adduct by the Sequential Action of Human DNA Polymerases ι and κ	William T. Wolffe, Robert E. Johnson, Irina G. Minko, R. Stephen Lloyd, Satya Prakash, and Louise Prakash	381–386
ERRATA		
A Human Protein Complex Homologous to the <i>Drosophila</i> MSL Complex Is Responsible for the Majority of Histone H4 Acetylation at Lysine 16	Edwin R. Smith, Christelle Cayrou, Rong Huang, William S. Lane, Jacques Côté, and John C. Lucchesi	387
Promoter Occupancy Is a Major Determinant of Chromatin Remodeling Enzyme Requirements	Archana Dhasarathy and Michael P. Kladde	388

Cover photograph (Copyright © 2006, American Society for Microbiology. All Rights Reserved.): Endosomal activation of NADPH oxidase is shown using H₂HFF-bovine serum albumin (BSA) fluorescent detection of superoxides (green). Superoxide production was colocalized with the early endosomal antigen EEA1 (red). The center cell was costained with H₂HFF-BSA and EEA1 following interleukin-1 β (IL-1 β) stimulation. The lower right cell was similarly stained but not stimulated with IL-1 β . The upper left cell was stained with H₂HFF-BSA but not for EEA1. The schematic insert depicts the various molecular interactions at the endosomal level that occur following IL-1 β stimulation of IL-1R1. (See related article on p. 140.)