Cover photograph: Single polarized Ls174T::W4 cell expressing the actin marker LifeAct-Ruby to visualize the iconic apical brush border. Different Z slices of the cell were imaged and reconstructed to generate a multicolored depth projection. (See related article at e00547-16.) (Copyright © 2017 American Society for Microbiology. All Rights Reserved.)

Cover Image

Spotlight

Articles of Significant Interest Selected from This Issue by the Editors — e00046-17

Research Articles

Checkpoint-Independent Regulation of Origin Firing by Mrc1 through Interaction with Hsk1 Kinase — e00355-16
Seiji Matsumoto, Yutaka Kanoh, Michie Shimmoto, Motoshi Hayano, Kyosuke Ueda, Rino Fukatsu, Naoko Kakusho, Hisao Masai

Extracellular Signal-Regulated Kinases 1 and 2 Phosphorylate Gab2 To Promote a Negative-Feedback Loop That Attenuates Phosphoinositide 3-Kinase/Akt Signaling — e00357-16
Xiaocui Zhang, Geneviève Lavoie, Antoine Méant, Léo Aubert, Marie Cargnello, André Haman, Trang Hoang, Philippe P. Roux

SETD4 Regulates Cell Quiescence and Catalyzes the Trimethylation of H4K20 during Diapause Formation in Artemia — e00453-16
Li Dai, Sen Ye, Hua-Wei Li, Dian-Fu Chen, Hong-Liang Wang, Sheng-Nan Jia, Cheng Lin, Jin-Shu Yang, Fan Yang, Hiromichi Nagasawa, Wei-Jun Yang

Activation-Dependent TRAF3 Exon 8 Alternative Splicing Is Controlled by CELF2 and hnRNP C Binding to an Upstream Intronic Element — e00488-16
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KLHL3 Knockout Mice Reveal the Physiological Role of KLHL3 and the Pathophysiology of Pseudohypoaldosteronism Type II Caused by Mutant KLHL3 — e00508-16
Emi Sasaki, Koichiro Susa, Takayasu Mori, Kiyoshi Isobe, Yuya Araki, Yuichi Inoue, Yuki Yoshizaki, Fumiaki Ando, Yutaro Mori, Shintaro Mandai, Moko Zeniya, Daiei Takahashi, Naohiro Nomura, Tatamitsu Rai, Shinichi Uchida, Eisei Sohara

D120 and K152 within the PH Domain of T Cell Adapter SKAP55 Regulate Plasma Membrane Targeting of SKAP55 and LFA-1 Affinity Modulation in Human T Lymphocytes — e00509-16
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A Two-Tiered Mechanism Enables Localized Cdc42 Signaling during Enterocyte Polarization — e00547-16
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HuR Enhances Early Restitution of the Intestinal Epithelium by Increasing Cdc42 Translation  
Lan Liu, Ran Zhuang, Lan Xiao, Hee Kyoung Chung, Jason Luo, Douglas J. Turner, 
Jaladanki N. Rao, Myriam Gorospe, Jian-Ying Wang

TOR Complex 2-Regulated Protein Kinase Fpk1 Stimulates Endocytosis via Inhibition of Ark1/Prk1-Related Protein Kinase Akl1 in Saccharomyces cerevisiae  
Françoise M. Roelants, Kristin L. Leskoske, Ross T. A. Pedersen, Alexander Muir, 
Jeffrey M.-H. Liu, Gregory C. Finnigan, Jeremy Thorner

mTORC1 Plays an Important Role in Skeletal Development by Controlling Preosteoblast Differentiation  
Stephen Fitter, Mary P. Matthews, Sally K. Martin, Jianling Xie, Soo Siang Ooi, Carl R. Walkley, John D. Codrington, Markus A. Ruegg, Michael N. Hall, Christopher G. Proud, 
Stan Gronthos, Andrew C. W. Zannettino