

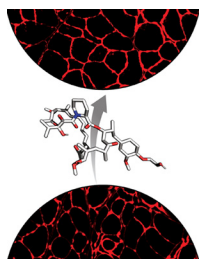


AMERICAN  
SOCIETY FOR  
MICROBIOLOGY

Molecular and  
Cellular Biology®

## CONTENTS • OCTOBER 2019 • VOLUME 39, NO. 19

### COVER IMAGE



*Cover photograph:* Immunostaining of myofiber cross sections by laminin (red) in aged skeletal muscle from 24-month-old sarcopenic rats. Age-associated pathophysiological changes in skeletal muscle morphology (bottom) are improved by the partial inhibition of mTORC1 signaling by the rapalog RAD001 (top). (See related article at e00141-19.) (Copyright © 2019 Joseph et al. CC-BY 4.0.)

### SPOTLIGHT

**Article of Significant Interest in This Issue** e00379-19

### RESEARCH ARTICLES

**Calcineurin Broadly Regulates the Initiation of Skeletal Muscle-Specific Gene Expression by Binding Target Promoters and Facilitating the Interaction of the SWI/SNF Chromatin Remodeling Enzyme** e00063-19

*Hanna Witwicka, Jumpei Nogami, Sabriya A. Syed, Kazumitsu Maehara, Teresita Padilla-Benavides, Yasuyuki Ohkawa, Anthony N. Imbalzano*

**Long Noncoding RNA HOXA-AS3 Integrates NF- $\kappa$ B Signaling To Regulate Endothelium Inflammation** e00139-19

*Xinxing Zhu, Duchu Chen, Yanli Liu, Jinjin Yu, Liang Qiao, Shuibin Lin, Demeng Chen, Genshen Zhong, Xifeng Lu, Yize Wang, Jieqi Wen, Xinqi Zhong, Yizhou Jiang*

**Partial Inhibition of mTORC1 in Aged Rats Counteracts the Decline in Muscle Mass and Reverses Molecular Signaling Associated with Sarcopenia** e00141-19

*Giselle A. Joseph, Sharon X. Wang, Cody E. Jacobs, Weihua Zhou, Garrett C. Kimble, Herman W. Tse, John K. Eash, Tea Shavlakadze, David J. Glass*

**Fission Yeast Asc1 Stabilizes the Interaction between Eukaryotic Initiation Factor 3a and Rps0A/uS2 for Protein Synthesis** e00161-19

*Yi-Ting Wang, Yu-Chen Chien, Wan-Yi Hsiao, Chien-Chia Wang, Shao-Win Wang*

**Formation of tRNA Wobble Inosine in Humans Is Disrupted by a Millennia-Old Mutation Causing Intellectual Disability** e00203-19

*Jillian Ramos, Lu Han, Yan Li, Felix Hagelskamp, Stefanie M. Kellner, Fowzan S. Alkuraya, Eric M. Phizicky, Dragony Fu*