

Contents

Vol. 46 No. 5 May 31, 2023

Minireviews

The Role of Pyruvate Metabolism in Mitochondrial Quality Control and Inflammation

Min-Ji Kim, Hoyul Lee, Dipanjan Chanda, Themis Thoudam, Hyeon-Ji Kang, Robert A. Harris, and In-Kyu Lee 259

The Role of Splicing Factors in Adipogenesis and Thermogenesis

Yadanar Than Naing and Lei Sun 268

Journal Club

Fission-Fueled Nucleoid Dispersion, a Novel Mitochondrial Metabolic Activation Mechanism

Jeongah Kim 278

Research Articles

Functional Analysis of CXCR3 Splicing Variants and Their Ligands Using NanoBiT-Based Molecular Interaction Assays

Huong Thi Nguyen, Sunghoon Hurh, Lan Phuong Nguyen, Thai Uy Nguyen, Hee-Kyung Park, Jae Young Seong, Cheol Soon Lee, Byung-Joo Ham, and Jong-Ik Hwang 281

Epigenetic Activation of Tensin 4 Promotes Gastric Cancer Progression

Haejeong Heo, Hee-Jin Kim, Keeok Haam, Hyun Ahm Sohn, Yang-Ji Shin, Hanyong Go, Hyo-Jung Jung, Jong-Hwan Kim, Sang-Il Lee, Kyu-Sang Song, Min-Ju Kim, Haeseung Lee, Eun-Soo Kwon, Seon-Young Kim, Yong Sung Kim, and Mirang Kim 298

Lamin Filament Assembly Derived from the Atomic Structure of the Antiparallel Four-Helix Bundle

Jinsook Ahn, Inseong Jo, Soyeon Jeong, Jinwook Lee, and Nam-Chul Ha 309

Ca²⁺-Permeable TRPV1 Receptor Mediates Neuroprotective Effects in a Mouse Model of Alzheimer's Disease via BDNF/CREB Signaling Pathway

Juyong Kim, Sangwoo Seo, Jung Han Yoon Park, Ki Won Lee, Jiyoung Kim, and Jin-Chul Kim 319

COVER PICTURE

The alpha-helices in the lamin filaments are depicted as coils, with different subdomains distinguished by various colors. Coil 1a is represented by magenta, coil 1b by yellow, L2 by green, coil 2a by white, coil 2b by brown, stutter by cyan, coil 2c by dark blue, and the lamin Ig-like domain by grey. In the background, cells are displayed, with the cytosol depicted in green and the nucleus in blue (Ahn et al., pp. 309-318).