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PERSPECTIVE
A quick guide to effective grassroots advocacy for scientists
Kellyann N. Jones-Jamtgaard and Connie M. Lee 2155–2158

BRIEF REPORTS
Miro1-mediated mitochondrial positioning shapes intracellular energy gradients required for cell migration
Max-Hinderk Schuler, Agnieszka Lewandowska, Giuseppe Di Caprio, Wesley Skillern, Srigokul Upadhyayula, Tom Kirchhausen, Janet M. Shaw, and Brian Cunniff 2159–2169
The ratio of ATP:ADP is highest at perinuclear sites, where mitochondria are dense, and dissipates toward the periphery. Miro1 positions mitochondria toward the cortical cytoskeleton. Deletion of Miro1 results in perinuclear clustering of mitochondria, altering intracellular ATP:ADP gradients, and impairs energy-expensive cell migratory processes.

High-quality frozen extracts of Xenopus laevis eggs reveal size-dependent control of metaphase spindle micromechanics
Jun Takagi and Yuta Shimamoto 2170–2177
A method for preparing frozen extracts of Xenopus laevis eggs that retain spindle assembly activity levels similar to those of freshly prepared extracts is described. This method enabled analyses of correlation between spindle size and stiffness.

ARTICLES

Cell Biology of Disease
Retinoschisin is linked to retinal Na/K-ATPase signaling and localization

Cell Motility
The phospho–caveolin-1 scaffolding domain dampens force fluctuations in focal adhesions and promotes cancer cell migration
Fanrui Meng, Sandeep Saxena, Youtao Liu, Bharat Joshi, Timothy H. Wong, Jay Shankar, Leonard J. Foster, Pascal Bernatchez, and Ivan R. Nabi 2190–2201
The caveolin scaffolding domain mediates the promigratory activity of Src-phosphorylated (on Y14) caveolin-1 and, specifically, regulation of vinculin tension in focal adhesions. This suggests that pY14Cav1 enhances cancer cell migration by promoting engagement of focal adhesion traction.

Membrane Trafficking
PI3K class II α regulates δ-opioid receptor export from the trans-Golgi network
Daniel J. Shiwasri, Marlena Darr, Cheryl A. Telmer, Marcel P. Bruchez, and Manojkumar A. Puthenveedu 2202–2219
The δ-opioid receptor (δR) is retained in intracellular structures in neurons, but the mechanisms of retention and regulated export are not known. The atypical phosphoinositide-3 kinase C2A is required and sufficient for NGF-regulated δR export from the trans-Golgi network and surface transport.
Signalng

PAR proteins regulate maintenance-phase myosin dynamics during *Caenorhabditis elegans* zygote polarization

Lawrence E. Small and Adriana T. Dawes

PAR-2, PAR-3, and PAR-6 regulate association of myosin (NMY-2) with the cortex of the *Caenorhabditis elegans* zygote. PAR-3 and PAR-6 concentrate CDC-42–dependent NMY-2 in the anterior cortex, and PAR-2 excludes NMY-2 from the posterior cortex inhibition of PAR-3 and PAR-6. PAR-1 and PAR-3 also prevent movement of NMY-2 across the cortex.