



Cover: A scanning electron micrograph at high magnification taken during HeLa cell cytokinesis. The picture displays unprecedented three-dimensional details of an intact intercellular bridge connecting the daughter cells before the final abscission step. Note the membrane bulge around the central midbody. This cell was selected by correlative time-lapse light and scanning electron microscopy. See article by E. F. Crowell et al. (pp. 3840–3851).

CELL SCIENCE AT A GLANCE

- 3641 Tetraspanins at a glance
Charrin, S., Jouannet, S., Boucheix, C. and Rubinstein, E.

COMMENTARY

- 3649 Redox controls UPR to control redox
Eletto, D., Chevet, E., Argon, Y. and Appenzeller-Herzog, C.

SHORT REPORT

- 3659 p300-mediated acetylation of COMMD1 regulates its stability, and the ubiquitylation and nucleolar translocation of the RelA NF- κ B subunit
O'Hara, A., Simpson, J., Morin, P., Loveridge, C. J., Williams, A. C., Novo, S. M. and Stark, L. A.

RESEARCH ARTICLES

- 3666 Deletion of the titin N2B region accelerates myofibrillar force development but does not alter relaxation kinetics
Elhamine, F., Radke, M. H., Pfitzer, G., Granzier, H., Gotthardt, M. and Stehle, R.
- 3675 PEX16 contributes to peroxisome maintenance by constantly trafficking PEX3 via the ER
Aranovich, A., Hua, R., Rutenberg, A. D. and Kim, P. K.
- 3687 Intracellular glycine receptor function facilitates glioma formation *in vivo*
Förster, B., Dzaye, O. D., Winkelmann, A., Semtner, M., Benedetti, B., Markovic, D. S., Synowitz, M., Wend, P., Fähling, M., Junier, M.-P., Glass, R., Kettenmann, H. and Meier, J. C.
- 3699 Anillin interacts with microtubules and is part of the astral pathway that defines cortical domains
van Oostende Triplet, C., Jaramillo Garcia, M., Haji Bik, H., Beaudet, D. and Piekny, A.
- 3711 β -adrenergic receptor signaling regulates *Ptgs2* by driving circadian gene expression in osteoblasts
Hirai, T., Tanaka, K. and Togari, A.
- 3720 Probing the biomechanical contribution of the endothelium to lymphocyte migration: diapedesis by the path of least resistance
Martinelli, R., Zeiger, A. S., Whitfield, M., Sciuto, T. E., Dvorak, A., Van Vliet, K. J., Greenwood, J. and Carman, C. V.
- 3735 EGF-induced C/EBP β participates in EMT by decreasing the expression of miR-203 in esophageal squamous cell carcinoma cells
Li, J., Shan, F., Xiong, G., Chen, X., Guan, X., Wang, J.-M., Wang, W.-L., Xu, X. and Bai, Y.
- 3745 Endosomal sorting of VAMP3 is regulated by PI4K2A
Jović, M., Kean, M. J., Dubankova, A., Boura, E., Gingras, A.-C., Brill, J. A. and Balla, T.
- 3757 Functional interplay between MyoD and CTCF in regulating long-range chromatin interactions during differentiation
Battistelli, C., Busanello, A. and Maione, R.
- 3768 An EMMPRIN- γ -catenin-Nm23 complex drives ATP production and actomyosin contractility at endothelial junctions
Moreno, V., Gonzalo, P., Gómez-Escudero, J., Pollán, Á., Acín-Pérez, R., Breckenridge, M., Yáñez-Mó, M., Barreiro, O., Orsenigo, F., Kadomatsu, K., Chen, C. S., Enriquez, J. A., Dejana, E., Sánchez-Madrid, F. and Arroyo, A. G.
- 3782 Palmitoylation of plakophilin is required for desmosome assembly
Roberts, B. J., Johnson, K. E., McGuinn, K. P., Saowapa, J., Svoboda, R. A., Mahoney, M. G., Johnson, K. R. and Wahl, J. K., III
- 3794 The E3 SUMO ligase Nse2 regulates sumoylation and nuclear-to-cytoplasmic translocation of skNAC-Smyd1 in myogenesis
Berkholz, J., Michalick, L. and Munz, B.
- 3805 Conformational remodeling of the fibronectin matrix selectively regulates VEGF signaling
Ambesi, A. and McKeown-Longo, P. J.
- 3817 Activation of a TRP-like channel and intracellular Ca²⁺ dynamics during phospholipase-C-mediated cell death
Gonçalves, A. P., Cordeiro, J. M., Monteiro, J., Muñoz, A., Correia-de-Sá, P., Read, N. D. and Videira, A.
- 3830 E(y)1/TAF9 mediates the transcriptional output of Notch signaling in *Drosophila*
Xie, G., Yu, Z., Jia, D., Jiao, R. and Deng, W.-M.
- 3840 Engulfment of the midbody remnant after cytokinesis in mammalian cells
Crowell, E. F., Gaffuri, A.-L., Gayraud-Morel, B., Tajbakhsh, S. and Echard, A.
- 3852 Phagosome maturation during endosome interaction revealed by partial rhodopsin processing in retinal pigment epithelium
Wavre-Shapton, S. T., Meschede, I. P., Seabra, M. C. and Futter, C. E.
- 3862 Liprin- α 1, ERC1 and LL5 define polarized and dynamic structures that are implicated in cell migration
Astro, V., Chiaretti, S., Magistrati, E., Fivaz, M. and de Curtis, I.