



Cover: After fusion by electric pulses, one giant cell and several smaller cells of *Dictyostelium* form a compact cluster that resembles an aggregation centre. Scanning electron micrograph by Richard Guggenheim (Microscopy Center, University of Basel, Switzerland) and Günther Gerisch. See article by G. Gerisch et al. (pp. 2069–2078).

Editorial

1903 **The San Francisco Declaration on Research Assessment.** Way, M. and Ahmad, S. A.

Cell Science at a Glance

1905 **Lysosomal cell death.** Aits, S. and Jäättelä, M.

Opinion

1913 **Models of signalling networks – what cell biologists can gain from them and give to them.** Janes, K. A. and Lauffenburger, D. A.

Short Report

1923 **UV-induced G2 checkpoint depends on p38 MAPK and minimal activation of ATR-Chk1 pathway.** Warmerdam, D. O., Brinkman, E. K., Martejn, J. A., Medema, R. H., Kanaar, R. and Smits, V. A. J.

Research Articles

1931 **A role for Rab14 in the endocytic trafficking of GLUT4 in 3T3-L1 adipocytes.** Reed, S. E., Hodgson, L. R., Song, S., May, M. T., Kelly, E. E., McCaffrey, M. W., Mastick, C. C., Verkade, P. and Tavaré, J. M.

1942 **The epithelial sodium channel mediates the directionality of galvanotaxis in human keratinocytes.** Yang, H.-y., Charles, R.-P., Hummler, E., Baines, D. L. and Isseroff, R. R.

1952 **Mitochondrial aldehyde dehydrogenase-2 activation prevents β -amyloid-induced endothelial cell dysfunction and restores angiogenesis.** Solito, R., Corti, F., Chen, C.-H., Mochly-Rosen, D., Giachetti, A., Ziche, M. and Donnini, S.

1962 **SDF2L1 interacts with the ER-associated degradation machinery and retards the degradation of mutant proinsulin in pancreatic β -cells.** Tiwari, A., Schuiki, I., Zhang, L., Allister, E. M., Wheeler, M. B. and Volchuk, A.

1969 **BAL1/ARTD9 represses the anti-proliferative and pro-apoptotic IFN γ -STAT1-IRF1-p53 axis in diffuse large B-cell lymphoma.** Camicia, R., Bachmann, S. B., Winkler, H. C., Beer, M., Tinguely, M., Haralambieva, E. and Hassa, P. O.

1981 **A complex containing LPP and α -actinin mediates TGF β -induced migration and invasion of ErbB2-expressing breast cancer cells.** Ngan, E., Northey, J. J., Brown, C. M., Ursini-Siegel, J. and Siegel, P. M.

1992 **The cell polarity scaffold Lethal Giant Larvae regulates synapse morphology and function.** Staples, J. and Brodie, K.

2004 **Deregulated G1–S control and energy stress contribute to the synthetic-lethal interactions between inactivation of RB and TSC1 or TSC2.** Gordon, G. M., Zhang, T., Zhao, J. and Du, W.

2014 **14-3-3 proteins sequester a pool of soluble TRIM32 ubiquitin ligase to repress autoubiquitylation and cytoplasmic body formation.** Ichimura, T., Taoka, M., Shoji, I., Kato, H., Sato, T., Hatakeyama, S., Isobe, T. and Hachiya, N.

2027 **Activation of conventional kinesin motors in clusters by Shaw voltage-gated K⁺ channels.** Barry, J., Xu, M., Gu, Y., Dangel, A. W., Jukkola, P., Shrestha, C. and Gu, C.

2042 **RNF168 forms a functional complex with RAD6 during the DNA damage response.** Liu, C., Wang, D., Wu, J., Keller, J., Ma, T. and Yu, X.

2052 **Promoter type influences transcriptional topography by targeting genes to distinct nucleoplasmic sites.** Larkin, J. D., Papantonis, A. and Cook, P. R.

2060 **Multi-functional norrin is a ligand for the LGR4 receptor.** Deng, C., Reddy, P., Cheng, Y., Luo, C.-W., Hsiao, C.-L. and Hsueh, A. J. W.

2069 **Membrane and actin reorganization in electropulse-induced cell fusion.** Gerisch, G., Ecke, M., Neujahr, R., Prassler, J., Stengl, A., Hoffmann, M., Schwarz, U. S. and Neumann, E.

2079 **PTL-1 regulates neuronal integrity and lifespan in *C. elegans*.** Chew, Y. L., Fan, X., Götz, J. and Nicholas, H. R.

2092 **Stable incorporation versus dynamic exchange of β subunits in a native Ca²⁺ channel complex.** Campiglio, M., Di Biase, V., Tuluc, P. and Flucher, B. E.

2102 **Specific removal of TACC3–ch-TOG–clathrin at metaphase deregulates kinetochore fiber tension.** Cheeseman, L. P., Harry, E. F., McAinsh, A. D., Prior, I. A. and Royle, S. J.

2114 **Activity-dependent synaptic localization of processing bodies and their role in dendritic structural plasticity.** Oh, J.-Y., Kwon, A., Jo, A., Kim, H., Goo, Y.-S., Lee, J.-A. and Kim, H. K.

2124 **ER-stress-associated functional link between Parkin and DJ-1 via a transcriptional cascade involving the tumor suppressor p53 and the spliced X-box binding protein XBP-1.** Duplan, E., Giaime, E., Viotti, J., Sévalle, J., Corti, O., Brice, A., Ariga, H., Qi, L., Checler, F. and Alves da Costa, C.