



Cover: An Imaris 3D surface rendering of a confocal image of a living human fibrosarcoma cell with intracellular *Legionella pneumophila* (red), which replicate in close proximity to host ER (green). Image by Chad D. Williamson (NICHD, NIH, Bethesda, MD). See article by Y.-H. Lin and M. P. Machner (pp. 1985–1996), which is part of our Minifocus on Ubiquitin Regulation and Function.

CELL SCIENTISTS TO WATCH

- 1981** Cell scientist to watch – Mads Gyrd-Hansen

COMMENTARIES

- 1985** Exploitation of the host cell ubiquitin machinery by microbial effector proteins
Lin, Y.-H. and Machner, M. P.
- 1997** Mechanisms of regulation and diversification of deubiquitylating enzyme function
Leznicki, P. and Kulathu, Y.

RESEARCH ARTICLES

- 2007** The VPS34 PI3K negatively regulates RAB-5 during endosome maturation
Law, F., Seo, J. H., Wang, Z., DeLeon, J. L., Bolis, Y., Brown, A., Zong, W.-X., Du, G. and Rocheleau, C. E.
- 2018** *In vivo* reprogramming of non-mammary cells to an epithelial cell fate is independent of amphiregulin signaling
George, A. L., Boulanger, C. A., Anderson, L. H., Cagnet, S., Brisken, C. and Smith, G. H.

- 2026** Time-lapse reveals that osteoclasts can move across the bone surface while resorbing
Søe, K. and Delaissé, J.-M.

- 2036** ADAM12 induction by Twist1 promotes tumor invasion and metastasis via regulation of invadopodia and focal adhesions
Eckert, M. A., Santiago-Medina, M., Lwin, T. M., Kim, J., Courtneidge, S. A. and Yang, J.

- 2049** Genome-wide screen for cell growth regulators in fission yeast
Weston, L., Greenwood, J. and Nurse, P.

- 2056** Inefficient recruitment of kinesin-1 to melanosomes precludes it from facilitating their transport
Robinson, C. L., Evans, R. D., Briggs, D. A., Ramalho, J. S. and Hume, A. N.

TOOLS AND TECHNIQUES

- 2066** Chromatin organization at the nuclear periphery as revealed by image analysis of structured illumination microscopy data
Fišerová, J., Efenberková, M., Sieger, T., Maninová, M., Uhlířová, J. and Hozák, P.