



Cover: Spinning-disk microscopy image of *Nup133Δmid* mouse embryonic stem cells at day 7 of differentiation towards neuroectoderm. Cells show a typical rosette organisation, with neuronal progenitors (labelled by Pax6, purple) at the centre and differentiated neurons (labelled with HuC/D, blue) at the periphery. The nuclear pores, labelled by GFP-Nup133Δmid (orange), form a discontinuous rim at the nuclear envelope. See article by C. Orniacki et al. (jcs261151).

CELL SCIENTISTS TO WATCH

Cell scientist to watch – Pascale Guiton
jcs261304

REVIEWS

Gluing yeast peroxisomes – composition and function of membrane contact sites
Wu, F., de Boer, R. and van der Klei, I. J.
jcs259440

Mitophagy and long-term neuronal homeostasis
Markaki, M., Tsagkari, D. and Tavernarakis, N.
jcs260638

SHORT REPORT

Nuclear segmentation facilitates neutrophil migration
Shen, C., Mulder, E., Buitenwerf, W., Postat, J., Jansen, A., Kox, M., Mandl, J. N. and Vrisekoop, N.
jcs260768

RESEARCH ARTICLES

Cik1 and Vik1 accessory proteins confer distinct functions to the kinesin-14 Kar3
Bergman, Z. J., Wong, J. J., Drubin, D. G. and Barnes, G.
jcs260621

Y-complex nucleoporins independently contribute to nuclear pore assembly and gene regulation in neuronal progenitors
Orniacki, C., Verrico, A., Pelletier, S., Souquet, B., Culpier, F., Jourden, L., Benetti, S. and Doye, V.
jcs261151

A human septin octamer complex sensitive to membrane curvature drives membrane deformation with a specific mesh-like organization
Nakazawa, K., Kumar, G., Chauvin, B., Di Cicco, A., Pellegrino, L., Trichet, M., Hajj, B., Cabral, J., Sain, A., Mangenot, S. and Bertin, A.
jcs260813

The histone methyltransferase NSD3 contributes to sister chromatid cohesion and to cohesin loading at mitotic exit
Eot-Houllier, G., Magnaghi-Jaulin, L., Bourguine, G., Smagulova, F., Giet, R., Watrin, E. and Jaulin, C.
jcs261014

The human discs large protein 1 interacts with and maintains connexin 43 at the plasma membrane in keratinocytes
Scott, H., Dong, L., Stevenson, A., MacDonald, A. I., Srinivasan, S., Massimi, P., Banks, L., Martin, P. E., Johnstone, S. R. and Graham, S. V.
jcs259984

Altered cohesin dynamics and H3K9 modifications contribute to mitotic defects in the *cbf11Δ* lipid metabolism mutant
Vishwanatha, A., Princová, J., Hohoš, P., Zach, R. and Převorovský, M.
jcs261265

Oxidative stress induces chromosomal instability through replication stress in fibroblasts from aged mice
Chen, G., Li, Z., Iemura, K. and Tanaka, K.
jcs260688

Radial spoke protein 9 is necessary for axoneme assembly in *Plasmodium* but not in trypanosomatid parasites
Ramakrishnan, C., Fort, C., Marques, S. R., Ferguson, D. J. P., Gransagne, M., Baum, J., Chaouch, S., Mouray, E., Kohl, L., Wheeler, R. J. and Sinden, R. E.
jcs260655

A genome-wide genetic screen identifies CYRI-B as a negative regulator of CEACAM3-mediated phagocytosis
Kuiper, J. W. P., Krause, J., Potgeter, L., Adrian, J. and Hauck, C. R.
jcs260771

TOOLS AND RESOURCES

Confinement plus myosin-II suppression maximizes heritable loss of chromosomes, as revealed by live-cell ChReporters
Hayes, B. H., Zhu, P. K., Wang, M., Pfeifer, C. R., Xia, Y., Phan, S., Andrechak, J. C., Du, J., Tobin, M. P., Anlas, A., Dooling, L. J., Vashisth, M., Irianto, J., Lampson, M. A. and Discher, D. E.
jcs260753

FIRST PERSON

First person – Harry Scott
jcs261342

First person – Akshay Vishwanatha
jcs261345

First person – Connie Shen
jcs261344

First person – Guan Chen
jcs261343

First person – Chandra Ramakrishnan
jcs261358

CORRECTION

Correction: BMP9-regulated angiogenic signaling plays an important role in the osteogenic differentiation of mesenchymal progenitor cells
Hu, N., Jiang, D., Huang, E., Liu, X., Li, R., Liang, X., Kim, S. H., Chen, X., Gao, J.-L., Zhang, H., Zhang, W., Kong, Y.-H., Zhang, J., Wang, J., Shui, W., Luo, X., Liu, B., Cui, J., Rose Rogers, M., Shen, J., Zhao, C., Wang, N., Wu, N., Luu, H. H., Haydon, R. C., He, T.-C. and Huang, W.
jcs261328