



Cover: Three-dimensional reconstruction of a laboratory-generated human blood-vessel-on-a-chip. A human umbilical vein endothelial cell monolayer lines the vessel lumen, which is generated in a collagen matrix. Cell–cell junctions are labelled to show VE-cadherin in white, and nuclei are shown in blue. These vessels have a perfusable lumen lined with endothelial cells, forming a semi-permeable barrier. This system allows leukocyte transmigration to be studied in real time and in three dimensions. See article by A. C. I. van Steen, L. Kempers et al. (jcs258690).

FIRST PERSON

First person – Judith Barbara Fülle
jcs259488

First person – Naoto Tanaka
jcs259489

First person – Anja Schmidt and Long Li
jcs259490

First person – Anna D’Amico
jcs259487

First person – Bram van Steen and Lanette Kempers
jcs259486

CELL SCIENTISTS TO WATCH

Cell scientist to watch – Tim Lämmermann
jcs259492

REVIEWS

Dynamic and cell-specific transport networks for intracellular copper ions
Lutsenko, S.
jcs240523

How cells tell up from down and stick together to construct multicellular tissues – interplay between apicobasal polarity and cell–cell adhesion
Vasquez, C. G., de la Serna, E. L. and Dunn, A. R.
jcs248757

SHORT REPORT

A preferred sequence for organelle inheritance during polarized cell growth
Li, K. W., Lu, M. S., Iwamoto, Y., Drubin, D. G. and Pedersen, R. T. A.
jcs258856

RESEARCH ARTICLES

Desmosome dualism – most of the junction is stable, but a plakophilin moiety is persistently dynamic
Fülle, J. B., Huppert, H., Liebl, D., Liu, J., de Almeida, R. A., Yanes, B., Wright, G. D., Lane, E. B., Garrod, D. R. and Ballestrem, C.
jcs258906

Fetuin-A secretion from β -cells leads to accumulation of macrophages in islets, aggravates inflammation and impairs insulin secretion
Mukhty, A., Fouzder, C. and Kundu, R.
jcs258507

Structural organization of the C1b projection within the ciliary central apparatus
Cai, K., Zhao, Y., Zhao, L., Phan, N., Hou, Y., Cheng, X., Witman, G. B. and Nicastro, D.
jcs254227

The long non-coding RNA ET-20 mediates EMT by impairing desmosomes in breast cancer cells
Saxena, M., Hisano, M., Neutzner, M., Diepenbruck, M., Ivanek, R., Sharma, K., Kalathur, R. K. R., Bürglin, T. R., Risoli, S. and Christofori, G.
jcs258418

Proprotein convertase furin is required for heart development in zebrafish
Zhou, Q., Lei, L., Zhang, H., Chiu, S.-C., Gao, L., Yang, R., Wei, W., Peng, G., Zhu, X. and Xiong, J.-W.
jcs258432

PKC- ϵ regulates vesicle delivery and focal exocytosis for efficient IgG-mediated phagocytosis
D’Amico, A. E., Wong, A. C., Zajd, C. M., Zhang, X., Murali, A., Trebak, M. and Lennartz, M. R.
jcs258886

The role of USP7 in the Shoc2-ERK1/2 signaling axis and Noonan-like syndrome with loose anagen hair
Wilson, P., Abdelmoti, L., Norcross, R., Jang, E. R., Palayam, M. and Galperin, E.
jcs258922

Dia- and Rok-dependent enrichment of capping proteins in a cortical region
Schmidt, A., Li, L., Lv, Z., Yan, S. and Großhans, J.
jcs258973

His domain protein tyrosine phosphatase and Rabaptin-5 couple endo-lysosomal sorting of EGFR with endosomal maturation
Parkinson, G., Roboti, P., Zhang, L., Taylor, S. and Woodman, P.
jcs259192

FAM209 associates with DPY19L2, and is required for sperm acrosome biogenesis and fertility in mice
Castaneda, J. M., Shimada, K., Satouh, Y., Yu, Z., Devlin, D. J., Ikawa, M. and Matzuk, M. M.
jcs259206

TOOLS AND RESOURCES

CZON-cutter – a CRISPR-Cas9 system for multiplexed organelle imaging in a simple unicellular alga
Tanaka, N., Mogi, Y., Fujiwara, T., Yabe, K., Toyama, Y., Higashiyama, T. and Yoshida, Y.
jcs258948

Transendothelial migration induces differential migration dynamics of leukocytes in tissue matrix
van Steen, A. C. I., Kempers, L., Schoppmeyer, R., Blokker, M., Beebe, D. J., Nolte, M. A. and van Buul, J. D.
jcs258690

CORRECTIONS

Correction: ADAR1 limits stress granule formation through both translation-dependent and translation-independent mechanisms
Corbet, G. A., Burke, J. M. and Parker, R.
jcs259400

Correction: An SR protein is essential for activating DNA repair in malaria parasites
Goyal, M., Singh, B. K., Simantov, K., Kaufman, Y., Eshar, S. and Dzikowski, R.
jcs259460