



Cover: Pseudocolored scanning electron micrograph of a hematopoietic progenitor cell conditionally immortalized by expressing estrogen receptor (ER)-regulated Hoxb8. See article by S. Accarias et al. (jcs236703).

FIRST PERSON

First person – Maria Agustina Battistone
jcs244160

First person – Sara Hernández Pérez
jcs244178

First person – Jiarui Bi
jcs244194

First person – Agnieszka Bauer and Julia Cecilia Madela
jcs244202

First person – Mirren Charnley
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First person – Michael Shannon
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First person – David Gurevich and Kathryn French
jcs238972

First person – Dan Li
jcs236364

CELL SCIENTISTS TO WATCH

Interview with the Guest Editor – Ana-Maria Lennon-Duménil
jcs243915

Cell Scientist to Watch – Sophie Acton
jcs242941

ESSAY

“If you please... draw me a cell”. Insights from immune cells
Moreau, H. D., Lennon-Duménil, A.-M. and Pierobon, P.
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CELL SCIENCE AT A GLANCE

Membrane mucins of the intestine at a glance
Pelaseyed, T. and Hansson, G. C.
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The lymph node at a glance – how spatial organization optimizes the immune response
Grant, S. M., Lou, M., Yao, L., Germain, R. N. and Radtke, A. J.
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The plant–pathogen haustorial interface at a glance
Bozkurt, T. O. and Kamoun, S.
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HYPOTHESIS

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Revelo, N. H., ter Beest, M. and van den Bogaart, G.
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REVIEWS

The power from within – understanding the driving forces of neutrophil extracellular trap formation
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p53, cancer and the immune response
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Imaging of the immune system – towards a subcellular and molecular understanding
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Molecular regulation of the plasma membrane-proximal cellular steps involved in NK cell cytolytic function
Phatarpekar, P. V. and Billadeau, D. D.
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Signalling, sorting and scaffolding adaptors for Toll-like receptors
Luo, L., Lucas, R. M., Liu, L. and Stow, J. L.
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SHORT REPORTS

Macrophages show higher levels of engulfment after disruption of *cis* interactions between CD47 and the checkpoint receptor SIRP α
Hayes, B. H., Tsai, R. K., Dooling, L. J., Kadu, S., Lee, J. Y., Pantano, D., Rodriguez, P. L., Subramanian, S., Shin, J.-W. and Discher, D. E.
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Distinct actin cytoskeleton behaviour in primary and immortalised T-cells
Colin-York, H., Kumari, S., Barbieri, L., Cords, L. and Fritzsche, M.
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RESEARCH ARTICLES

Vav2 lacks Ca²⁺ entry-promoting scaffolding functions unique to Vav1 and inhibits T cell activation via Cdc42
Fray, M. A., Charpentier, J. C., Sylvain, N. R., Seminario, M.-C. and Bunnell, S. C.
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Identification of serine residues in the connexin43 carboxyl tail important for BCR-mediated spreading of B-lymphocytes
Pournia, F., Dang-Lawson, M., Choi, K., Mo, V., Lampe, P. D. and Matsuuchi, L.
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- TLR7 trafficking and signaling in B cells is regulated by the MHCII-associated invariant chain
Tohme, M., Maisonneuve, L., Achour, K., Dussiot, M., Maschalidi, S. and Manoury, B.
 jcs236711
- Cofilin1-driven actin dynamics controls migration of thymocytes and is essential for positive selection in the thymus
Salz, A., Gurniak, C., Jönsson, F. and Witke, W.
 jcs238048
- P2X7 receptor activation increases expression of caveolin-1 and formation of macrophage lipid rafts, thereby boosting CD39 activity
Savio, L. E. B., de Andrade Mello, P., Santos, S. A. C. S., de Sousa, J. C., Oliveira, S. D. S., Minshall, R. D., Kurtenbach, E., Wu, Y., Longhi, M. S., Robson, S. C. and Coutinho-Silva, R.
 jcs237560
- Ca²⁺-activated cleavage of ezrin visualised dynamically in living myeloid cells during cell surface area expansion
Roberts, R. E., Martin, M., Marion, S., Elumalai, G. L., Lewis, K. and Hallett, M. B.
 jcs236968
- The Lifeact-EGFP mouse is a translationally controlled fluorescent reporter of T cell activation
Galeano Niño, J. L., Tay, S. S., Tearle, J. L. E., Xie, J., Govendir, M. A., Kempe, D., Mazalo, J., Drew, A. P., Colakoglu, F., Kummerfeld, S. K., Proud, C. G. and Biro, M.
 jcs238014
- Reactive oxygen species-mediated cytoplasmic stiffening impairs the phagocytic ability of the macrophage
Agarwal, M., Biswas, P., Bhattacharya, A. and Sinha, D. K.
 jcs236471
- RHOA-mediated mechanical force generation through Dectin-1
Choraghe, R. P., Kołodziej, T., Buser, A., Rajfur, Z. and Neumann, A. K.
 jcs236166
- Adhesion, motility and matrix-degrading gene expression changes in CSF-1-induced mouse macrophage differentiation
Murrey, M. W., Steer, J. H., Greenland, E. L., Proudfoot, J. M., Joyce, D. A. and Pixley, F. J.
 jcs232405
- Myo1e modulates the recruitment of activated B cells to inguinal lymph nodes
Girón-Pérez, D. A., Vadillo, E., Schnoor, M. and Santos-Argumedo, L.
 jcs235275
- RPTP ϵ promotes M2-polarized macrophage migration through ROCK2 signaling and podosome formation
Lapointe, F., Turcotte, S., Roy, J., Bissonnette, E., Rola-Pleszczynski, M. and Stankova, J.
 jcs234641
- Pan-SHIP1/2 inhibitors promote microglia effector functions essential for CNS homeostasis
Pedicone, C., Fernandes, S., Dungan, O. M., Dormann, S. M., Viernes, D. R., Adhikari, A. A., Choi, L. B., De Jong, E. P., Chisholm, J. D. and Kerr, W. G.
 jcs238030
- B cells rapidly target antigen and surface-derived MHCII into peripheral degradative compartments
Hernández-Pérez, S., Vainio, M., Kuokkanen, E., Šuštar, V., Petrov, P., Forstén, S., Paavola, V., Rajala, J., Awoniyi, L. O., Sarapulov, A. V., Vihinen, H., Jokitalo, E., Bruckbauer, A. and Mattila, P. K.
 jcs235192
- Neutrophil phagocyte oxidase activity controls invasive fungal growth and inflammation in zebrafish
Schoen, T. J., Rosowski, E. E., Knox, B. P., Bennin, D., Keller, N. P. and Huttenlocher, A.
 jcs236539
- Loss of Ca²⁺ entry via Orai-TRPC1 induces ER stress, initiating immune activation in macrophages
Nascimento Da Conceicao, V., Sun, Y., Zboril, E. K., De la Chapa, J. J. and Singh, B. B.
 jcs237610
- IL-15R α membrane anchorage in either *cis* or *trans* is required for stabilization of IL-15 and optimal signaling
Quéméner, A., Morisseau, S., Sousa, R. P., Trillet, K., Maillasson, M., Leray, I., Jacques, Y., Dion, J., Barbieux, I., Frutoso, M., Laurent, A. D., Le Questel, J.-Y. and Mortier, E.
 jcs236802
- Epidermal growth factor receptor signaling suppresses $\alpha\text{v}\beta\text{6}$ integrin and promotes periodontal inflammation and bone loss
Bi, J., Koivisto, L., Dai, J., Zhuang, D., Jiang, G., Larjava, M., Shen, Y., Bi, L., Liu, F., Haapasalo, M., Häkkinen, L. and Larjava, H.
 jcs236588
- Rat cytomegalovirus-encoded γ -chemokine vXCL1 is a highly adapted, species-specific agonist for rat XCR1-positive dendritic cells
Bauer, A., Madela, J., Berg, C., Daugvilaite, V., Gurka, S., Mages, H. W., Kroczeck, R. A., Rosenkilde, M. M. and Voigt, S.
 jcs236190
- Novel role of proton-secreting epithelial cells in sperm maturation and mucosal immunity
Battistone, M. A., Spallanzani, R. G., Mendelsohn, A. C., Capen, D., Nair, A. V., Brown, D. and Breton, S.
 jcs233239
- Discovery of aspirin-triggered eicosanoid-like mediators in a *Drosophila* metainflammation blood tumor model
Panettieri, S., Paddibhatla, I., Chou, J., Rajwani, R., Moore, R. S., Goncharuk, T., John, G. and Govind, S.
 jcs236141
- A new role for Notch in the control of polarity and asymmetric cell division of developing T cells
Charnley, M., Ludford-Menting, M., Pham, K. and Russell, S. M.
 jcs235358
- Differential nanoscale organisation of LFA-1 modulates T-cell migration
Shannon, M. J., Pineau, J., Griffié, J., Aaron, J., Peel, T., Williamson, D. J., Zamoyska, R., Cope, A. P., Cornish, G. H. and Owen, D. M.
 jcs232991

FcRn mediates fast recycling of endocytosed albumin and IgG from early macropinosomes in primary macrophages
Toh, W. H., Louber, J., Mahmoud, I. S., Chia, J., Bass, G. T., Dower, S. K., Verhagen, A. M. and Gleeson, P. A.
jcs235416

Live imaging the foreign body response in zebrafish reveals how dampening inflammation reduces fibrosis
Gurevich, D. B., French, K. E., Collin, J. D., Cross, S. J. and Martin, P.
jcs236075

DDX56 inhibits type I interferon by disrupting assembly of IRF3–IPO5 to inhibit IRF3 nucleus import
Li, D., Fu, S., Wu, Z., Yang, W., Ru, Y., Shu, H., Liu, X. and Zheng, H.
jcs230409

NKG2D–DAP10 signaling recruits EVL to the cytotoxic synapse to generate F-actin and promote NK cell cytotoxicity
Wilton, K. M., Overlee, B. L. and Billadeau, D. D.
jcs230508

TOOLS AND RESOURCES

High-resolution quantification of discrete phagocytic events by live cell time-lapse high-content microscopy imaging
Chu, C. C., Pinney, J. J., Whitehead, H. E., Rivera-Escalera, F., VanDerMeid, K. R., Zent, C. S. and Elliott, M. R.
jcs237883

Genetic engineering of Hoxb8-immortalized hematopoietic progenitors – a potent tool to study macrophage tissue migration
Accarias, S., Sanchez, T., Labrousse, A., Ben-Neji, M., Boyance, A., Poincloux, R., Maridonneau-Parini, I. and Le Cabec, V.
jcs236703