



Cover: Three-dimensional reconstruction of an endometrial organoid infected with GFP-expressing *Chlamydia trachomatis* (magenta), immunostained for the Golgi complex (GM130, yellow) and imaged using Airyscan confocal microscopy. The Golgi complex is recruited to and fragmented around the *Chlamydia*-containing vacuole by type III secreted effectors. Nuclei (cyan) are stained with Hoechst. See article by L. Dolat and R. H. Valdivia (jcs252403).

FIRST PERSON

First person – Simona Amodeo
jcs258558

First person – Brittany Seman
jcs258538

First person – Pragya Chandrakar
jcs258532

First person – Juan Flores and Peter M. Takvorian
jcs258531

First person – Matthias Klose
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First person – Vibhu Prasad
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First person – Elliott Bernard
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First person – Huildore Bommanna Ranjitha
jcs258536

First person – Thibault Rosazza
jcs258537

CELL SCIENTISTS TO WATCH

Interview with the Guest Editor – Derek Walsh
jcs258547

CELL SCIENCE AT A GLANCE

Malaria parasite egress at a glance
Tan, M. S. Y and Blackman, M. J.
jcs257345

REVIEWS

Mixed signals – how *Trypanosoma cruzi* exploits host-cell communication and signaling to establish infection
Nájera, C. A., Batista, M. F., Meneghelli, I. and Bahia, D.
jcs255687

Picornavirus 3C – a protease ensuring virus replication and subverting host responses
Yi, J., Peng, J., Yang, W., Zhu, G., Ren, J., Li, D. and Zheng, H.
jcs253237

Viral use and subversion of membrane organization and trafficking
Hernandez-Gonzalez, M., Larocque, G. and Way, M.
jcs252676

Imaging host–pathogen interactions using epithelial and bacterial cell infection models
Park, A. J., Wright, M. A., Roach, E. J. and Khursigara, C. M.
jcs250647

Cellular metabolism in the defense against microbes
Pernas, L.
jcs252023

The diverse roles and dynamic rearrangement of vimentin during viral infection
Zhang, Y., Wen, Z., Shi, X., Liu, Y.-J., Eriksson, J. E. and Jiu, Y.
jcs250597

Emerging roles of non-coding RNAs in vector-borne infections
Bensaoud, C., Martins, L. A., Aounallah, H., Hackenberg, M. and Kotsyfakis, M.
jcs246744

Vacuolar escape of foodborne bacterial pathogens
Bianchi, F. and van den Bogaart, G.
jcs247221

SHORT REPORTS

Turgor-dependent and coronin-mediated F-actin dynamics drive septin disc-to-ring remodeling in the blast fungus *Magnaporthe oryzae*
Dulal, N., Rogers, A. M., Proko, R., Bieger, B. D., Liyanage, R., Krishnamurthi, V. R., Wang, Y. and Egan, M. J.
jcs251298

Unc-13 homolog D mediates an antiviral effect of the chromosome 19 microRNA cluster miR-517a
Krawczynski, K., Ouyang, Y., Mouillet, J.-F., Chu, T., Coyne, C. B. and Sadovsky, Y.
jcs246769

Dynamic imaging reveals surface exposure of virulent *Leishmania* amastigotes during pyroptosis of infected macrophages
Rosazza, T., Lecoeur, H., Blisnick, T., Moya-Nilges, M., Pescher, P., Bastin, P., Prina, E. and Späth, G. F.
jcs242776

RESEARCH ARTICLES

Characterization of the novel mitochondrial genome segregation factor TAP110 in *Trypanosoma brucei*
Amodeo, S., Kalichava, A., Fradera-Sola, A., Bertiaux-Lequoy, E., Guichard, P., Butter, F. and Ochsenreiter, T.
jcs254300

Requirement of CRAMP for mouse macrophages to eliminate phagocytosed *E. coli* through an autophagy pathway
Chen, K., Yoshimura, T., Gong, W., Tian, C., Huang, J., Trinchieri, G. and Wang, J. M.
jcs252148

Human microsporidian pathogen *Encephalitozoon intestinalis* impinges on enterocyte membrane trafficking and signaling
Flores, J., Takvorian, P. M., Weiss, L. M., Cali, A. and Gao, N.
jcs253757

Neonatal low-density granulocytes internalize and kill bacteria but suppress monocyte function using extracellular DNA

Seman, B. G., Vance, J. K., Akers, S. M. and Robinson, C. M.
jcs252528

Jagged–Notch-mediated divergence of immune cell crosstalk maintains the anti-inflammatory response in visceral leishmaniasis

Chandrakar, P., Seth, A., Rani, A., Dutta, M., Parmar, N., Descoteaux, A. and Kar, S.

jcs252494

Human-specific staphylococcal virulence factors enhance pathogenicity in a humanised zebrafish C5a receptor model

Buchan, K. D., van Gent, M., Prajsnar, T. K., Ogryzko, N. V., de Jong, N. W. M., Kolata, J., Foster, S. J., van Strijp, J. A. G. and Renshaw, S. A.

jcs252205

BPIFB3 interacts with ARFGAP1 and TMED9 to regulate non-canonical autophagy and RNA virus infection

Evans, A. S., Lennemann, N. J. and Coyne, C. B.

jcs251835

Vibrio cholerae cytotoxin MakA induces noncanonical autophagy resulting in the spatial inhibition of canonical autophagy

Corkery, D. P., Nadeem, A., Aung, K. M., Hassan, A., Liu, T., Cervantes-Rivera, R., Lystad, A. H., Wang, H., Persson, K., Puhar, A., Simonsen, A., Uhlin, B. E., Wai, S. N. and Wu, Y.-W.

jcs252015

FIB-SEM-based analysis of *Borrelia* intracellular processing by human macrophages

Klose, M., Scheungrab, M., Luckner, M., Wanner, G. and Linder, S.

jcs252320

CMV-encoded GPCR pUL33 activates CREB and facilitates its recruitment to the MIE locus for efficient viral reactivation

Krishna, B. A., Wass, A. B., Dooley, A. L. and O'Connor, C. M.

jcs254268

Endophilin-A2-dependent tubular endocytosis promotes plasma membrane repair and parasite invasion

Corrotte, M., Cerasoli, M., Maeda, F. Y. and Andrews, N. W.

jcs249524

M. tuberculosis infection of human iPSC-derived macrophages reveals complex membrane dynamics during xenophagy evasion

Bernard, E. M., Fearn, A., Bussi, C., Santucci, P., Peddie, C. J., Lai, R. J., Collinson, L. M. and Gutierrez, M. G.

jcs252973

Cell-to-cell and genome-to-genome variability of adenovirus transcription tuned by the cell cycle

Suomalainen, M., Prasad, V., Kannan, A. and Greber, U. F.
jcs252544

Foot-and-mouth disease virus induces PERK-mediated autophagy to suppress the antiviral interferon response

Ranjitha, H. B., Ammanathan, V., Guleria, N., Hosamani, M., Sreenivasa, B. P., Dhanesh, V. V., Santhoshkumar, R., Sagar, B. K. C., Mishra, B. P., Singh, R. K., Sanyal, A., Manjithaya, R. and Basagoudanavar, S. H.

jcs240622

Proteomic and mechanistic dissection of the poxvirus-customized ribosome

DiGiuseppe, S., Rollins, M. G., Astar, H., Khalatyan, N., Savas, J. N. and Walsh, D.

jcs246603

Real-time dynamics of *Plasmodium* NDC80 reveals unusual modes of chromosome segregation during parasite proliferation

Zeeshan, M., Pandey, R., Ferguson, D. J. P., Tromer, E. C., Markus, R., Abel, S., Brady, D., Daniel, E., Limenitakis, R., Bottrill, A. R., Le Roch, K. G., Holder, A. A., Waller, R. F., Guttery, D. S. and Tewari, R.

jcs245753

Protein tyrosine phosphatase 1B is involved in efficient type I interferon secretion upon viral infection

Reimer, E., Stempel, M., Chan, B., Bley, H. and Brinkmann, M. M.

jcs246421

Convergent Met and voltage-gated Ca²⁺ channel signaling drives hypermigration of *Toxoplasma*-infected dendritic cells

Ólafsson, E. B., ten Hoeve, A. L., Li-Wang, X., Westermark, L., Varas-Godoy, M. and Barragan, A.

jcs241752

A function of profilin in force generation during malaria parasite motility that is independent of actin binding

Moreau, C. A., Quadt, K. A., Piirainen, H., Kumar, H., Bhargav, S. P., Strauss, L., Tolia, N. H., Wade, R. C., Spatz, J. P., Kursula, I. and Frischknecht, F.

jcs233775

TOOLS AND RESOURCES

An endometrial organoid model of interactions between *Chlamydia* and epithelial and immune cells

Dolat, L. and Valdivia, R. H.

jcs252403