



Cover: Z-projection of a differentiated spheroid structure generated from primary mouse renal epithelial cells in a new three dimensional culture system. The spheroid demonstrates apical *Dolichos biflorus* agglutinin (DBA) staining (red), basolateral Na/K ATPase (green, modified by the find edges tool) and nuclei (blue). Image was acquired on a Zeiss 710 NLO with a confocal LSM. The new tubuloid system was developed to study the pathological process of cystogenesis in human diseases including polycystic kidney disease. See article by E. E. Dixon et al. (jcs249557).

EDITORIAL

FocalPlane – a meeting place for the microscopy minded
Ahmad, S., (Executive Editor), Kyprianou, C., (Community Manager, FocalPlane) and Way, M. (Editor-in-Chief)

jcs250829

STICKY WICKETS

Corona IX – sick of it
Mole
jcs249896

Corona X – yesterday and tomorrow and the day after that
Mole
jcs249904

FIRST PERSON

First person – Sachiko Fujiwara
jcs251082

First person – Laura Westrate
jcs251090

First person – Nuno Martins, Fernanda Cisneros-Soberanis and Elisa Pesenti
jcs251124

First person – Eryn Dixon
jcs250373

First person – Tigist Tamir
jcs251116

REVIEWS

The ubiquitin-like modifier FAT10 – much more than a proteasome-targeting signal
Aichem, A. and Groettrup, M.
jcs246041

Mitochondrial dynamics during spermatogenesis
Varuzhanyan, G. and Chan, D. C.
jcs235937

SHORT REPORT

Disease-associated keratin mutations reduce traction forces and compromise adhesion and collective migration
Fujiwara, S., Deguchi, S. and Magin, T. M.
jcs243956

RESEARCH ARTICLES

PP2A-B55 γ counteracts Cdk1 and regulates proper spindle orientation through the cortical dynein adaptor NuMA
Keshri, R., Rajeevan, A. and Kotak, S.
jcs243857

Conserved regions of budding yeast Tim22 have a role in structural organization of the carrier translocase

Kumar, A., Matta, S. K. and D'Silva, P.
jcs244632

PP2A^{Cdc55} dephosphorylates Pds1 and inhibits spindle elongation in *S. cerevisiae*

Khondker, S., Kajjo, S., Chandler-Brown, D., Skotheim, J., Rudner, A. and Ikui, A.
jcs243766

Osmotic gradients induce stable dome morphogenesis on extracellular matrix

Ishida-Ishihara, S., Akiyama, M., Furusawa, K., Naguro, I., Ryuno, H., Sushida, T., Ishihara, S. and Haga, H.
jcs243865

Chromokinesin KIF4A teams up with stathmin 1 to regulate abscission in a SUMO-dependent manner

Cuijpers, S. A. G., Willemstein, E., Ruppert, J. G., van Elsland, D. M., Earnshaw, W. C. and Vertegaal, A. C. O.
jcs248591

RGS4 controls secretion of von Willebrand factor to the subendothelial matrix

Patella, F. and Cutler, D. F.
jcs247312

H3K9me3 maintenance on a human artificial chromosome is required for segregation but not centromere epigenetic memory

Martins, N. M. C., Cisneros-Soberanis, F., Pesenti, E., Kochanova, N. Y., Shang, W.-H., Hori, T., Nagase, T., Kimura, H., Larionov, V., Masumoto, H., Fukagawa, T. and Earnshaw, W. C.
jcs242610

Cardiolipin is required for membrane docking of mitochondrial ribosomes and protein synthesis

Lee, R. G., Gao, J., Siira, S. J., Shearwood, A.-M., Ermer, J. A., Hofferek, V., Mathews, J. C., Zheng, M., Reid, G. E., Rackham, O. and Filipovska, A.
jcs240374

Vesicular and uncoated Rab1-dependent cargo carriers facilitate ER to Golgi transport

Westrate, L. M., Hoyer, M. J., Nash, M. J. and Voeltz, G. K.
jcs239814

Staufen1 localizes to the mitotic spindle and controls the localization of RNA populations to the spindle

Hassine, S., Bonnet-Magnaval, F., Benoit Bouvrette, L. P., Doran, B., Ghram, M., Bouthillette, M., Lecuyer, E. and DesGroseillers, L.
jcs247155

Decidual glycodelin-A polarizes human monocytes into a decidual macrophage-like phenotype through Siglec-7
Vijayan, M., Lee, C.-L., Wong, V. H. H., Wang, X., Bai, K., Wu, J., Koistinen, H., Seppälä, M., Lee, K.-F., Yeung, W. S. B., Ng, E. H. Y. and Chiu, P. C. N.
jcs244400

Endothelial protective factors BMP9 and BMP10 inhibit CCL2 release by human vascular endothelial cells
Upton, P. D., Park, J. E. S., De Souza, P. M., Davies, R. J., Griffiths, M. J. D., Wort, S. J. and Morrell, N. W.
jcs239715

FAT10 localises in dendritic cell aggresome-like induced structures and contributes to their disassembly
Schregle, R., Mueller, S., Legler, D. F., Rossy, J., Krueger, W. A. and Groettrup, M.
jcs240085

Gain-of-function genetic screen of the kinome reveals BRSK2 as an inhibitor of the NRF2 transcription factor
Tamir, T. Y., Bowman, B. M., Agajanian, M. J., Goldfarb, D., Schrank, T. P., Stohrer, T., Hale, A. E., Siesser, P. F., Weir, S. J., Murphy, R. M., LaPak, K. M., Weissman, B. E., Moorman, N. J. and Major, M. B.
jcs241356

A heterodimeric SNX4–SNX7 SNX-BAR autophagy complex coordinates ATG9A trafficking for efficient autophagosome assembly
Antón, Z., Betin, V. M. S., Simonetti, B., Traer, C. J., Attar, N., Cullen, P. J. and Lane, J. D.
jcs246306

TOOLS AND RESOURCES

A semi-automated machine learning-aided approach to quantitative analysis of centrosomes and microtubule organization
Sankaran, D. G., Stemm-Wolf, A. J., McCurdy, B. L., Hariharan, B. and Pearson, C. G.
jcs243543

Histone modification dynamics as revealed by multicolor immunofluorescence-based single-cell analysis
Hayashi-Takanaka, Y., Kina, Y., Nakamura, F., Becking, L. E., Nakao, Y., Nagase, T., Nozaki, N. and Kimura, H.
jcs243444

GDNF drives rapid tubule morphogenesis in a novel 3D *in vitro* model for ADPKD
Dixon, E. E., Maxim, D. S., Halperin Kuhns, V. L., Lane-Harris, A. C., Outeda, P., Ewald, A. J., Watnick, T. J., Welling, P. A. and Woodward, O. M.
jcs249557