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Reproducibility and staging of 3D human retinal organoids across multiple pluripotent stem cell lines

Elizabeth E. Capowski, Kayvan Samimi, Steven J. Mayerl, M. Joseph Phillips, Isabel Pinilla, Sara E. Howden, Jishnu Saha, Alex D. Jansen, Kimberly L. Edwards, Lindsey D. Jager, Katherine Barlow, Rasa Valiauga, Zachary Erlichman, Anna Hagstrom, Divya Sinha, Valentin M. Sluch, Xitiz Chamling, Donald J. Zack, Melissa C. Skala, David M. Gamm Development. 2019.

Published 9 January 2019

<https://dev.biologists.org/content/146/1/dev171686>

Targeted drug delivery via caveolae-associated protein PV1 improves lung fibrosis

Gabriela M. Marchetti, Timothy J. Burwell, Norman C. Peterson, Jennifer A. Cann, Richard N. Hanna, Qing Li, Emily L. Ongstad, Jonathan T. Boyd, Maureen A. Kennedy, Weiguang Zhao, Keith W. Rickert, Joseph S. Grimsby, William F. Dall'Acqua, Herren Wu, Ping Tsui, M. Jack Borrok & Ruchi Gupta

Communications Biology volume 2, Article number: 92 (2019)

<https://www.nature.com/articles/s42003-019-0337-2>

In Vivo Developmental Trajectories of Human Podocyte Inform In Vitro Differentiation of Pluripotent Stem Cell-Derived Podocytes

Tran T, Lindström NO, Ransick A, De Sena Brandine G, Guo Q, Kim AD, Der B, Peti-Peterdi J, Smith AD, Thornton M, Grubbs B, McMahon JA, McMahon AP: Dev Cell. 2019 Jul 1;50(1):102-116.e6.

<https://www.ncbi.nlm.nih.gov/pubmed/31265809>

Novel fluorescence techniques to quantitate renal cell biology

Janos Peti-Peterdi

Methods in Kidney Cell Biology Part B, Volume 154, 1st Edition

<https://www.elsevier.com/books/methods-in-kidney-cell-biology-part-b/weimbs/978-0-12-820335-4>

Estimation of the Mitochondrial Membrane Potential Using Fluorescence Lifetime Imaging Microscopy

Irina A. Okkelman, Dmitri B. Papkovsky, Ruslan I. Dmitriev

Cytometry. doi:10.1002/cyto.a.23886. First published: 05 September 2019
<https://doi.org/10.1002/cyto.a.23886>

Long-Term Cell Fate Tracking of Individual Renal Cells Using Serial Intravital Microscopy

Schiessl I.M., Fremter K., Burford J.L., Castrop H., Peti-Peterdi J.
Methods in Molecular Biology. Humana Press. First Online 14 May 2019
https://doi.org/10.1007/7651_2019_232

Peritoneal GATA6+ macrophages function as a portal for Staphylococcus aureus dissemination

Selina K. Jorch, Bas G.J. Surewaard, Mokarram Hossain, Moritz Peiseler, Carsten Deppermann, Jennifer Deng, Ania Bogoslawski, Fardau van der Wal, Abdelwahab Omri, Michael J. Hickey, and Paul Kubes
J Clin Invest. 2019.
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Sinoatrial Node Structure, Mechanics, Electrophysiology and the Chronotropic Response to Stretch in Rabbit and Mouse

MacDonald Eilidh A., Madl Josef, Greiner Joachim, Ramadan Ahmed F., Wells Sarah M., Torrente Angelo G., Kohl Peter, Rog-Zielinska Eva A., Quinn T. Alexander
Frontiers in Physiology. 2020
<https://www.frontiersin.org/article/10.3389/fphys.2020.00809>

Mechanism of how carbamylation reduces albumin binding to FcRn contributing to increased vascular clearance

Shiv Pratap S. Yadav, Ruben M. Sandoval, Jingfu Zhao, Yifan Huang, Exing Wang, Sudhanshu Kumar, Silvia B. Campos-Bilderback, George Rhodes, Yehia Mechref, Bruce A. Molitoris, and Mark C. Wagner
American Journal of Physiology-Renal Physiology 2021 320:1, F114-F129
<https://journals.physiology.org/doi/abs/10.1152/ajprenal.00428.2020>

Glomerular endothelial cell heterogeneity in Alport syndrome

Hasmik Soloyan, Matthew Thornton, Valentina Villani, Patrick Khatchadourian, Paolo Cravedi, Andrea Angeletti, Brendan Grubbs, Roger De Filippo, Laura Perin & Sargis Sedrakyan
Scientific Reports. 2020
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Dissection of heterocellular cross-talk in vascularized cardiac tissue mimetics

Julian Uwe Gabriel Wagner, Minh Duc Pham, Luka Nicin, Marie Hammer, Katharina Bottermann, Ting Yuan, Rahul Sharma, David John, Marion Muhly-Reinholz, Lukas Tombor, Martin Hardt, Josef Madl, Stefanie Dimmeler, Jaya Krishnan

Journal of Molecular and Cellular Cardiology. 2020

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Single-cell glycolytic activity regulates membrane tension and HIV-1 fusion

Charles A. Coomer, Irene Carlon-Andres, Maro Iliopoulou, Michael L. Dustin, Ewoud B.

Compeer, Alex A. Compton, Sergi Padilla-Parra

PLOS Pathogens. 2020

<https://journals.plos.org/plospathogens/article?id=10.1371/journal.ppat.1008359&rev=2>

Plasticity of Lgr5-Negative Cancer Cells Drives Metastasis in Colorectal Cancer

Arianna Fumagalli, Koen C. Oost, Lennart Kester, Jessica Morgner, Laura Bornes, Lotte Bruens, Lisa Spaargaren, Maria Azkanaz, Tim Schelfhorst, Evelyne Beerling, Maria C. Heinz, Daniel Postrach, Danielle Seinstra, Anieta M. Sieuwerts, John W.M. Martens, Stefan van der Elst, Martijn van Baalen, Debajit Bhowmick, Nienke Vrisekoop, Saskia I.J. Ellenbroek, Saskia J.E. Suijkerbuijk, Hugo J. Snippert, Jacco van Rheenen

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A comprehensive enhancer screen identifies TRAM2 as a key and novel mediator of YAP oncogenesis

Li Li, Alejandro P. Ugalde, Colinda L. G. J. Scheele, Sebastian M. Dieter, Remco Nagel, Jin Ma, Abhijeet Pataskar, Gozde Korkmaz, Ran Elkon, Miao-Ping Chien, Li You, Pin-Rui Su, Onno B. Bleijerveld, Maarten Altelaar, Lyubomir Momchev, Zohar Manber, Ruiqi Han, Pieter C. van Breugel, Rui Lopes, Peter ten Dijke, Jacco van Rheenen & Reuven Agami

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Primordial GATA6 macrophages function as extravascular platelets in sterile injury

J. Zindel, M. Peiseler, M. Hossain, C. Deppermann, W. Y. Lee, B. Haenni, B. Zuber, J. F. Deniset, B. G. J. Surewaard, D. Candinas, P. Kubes

Science. 2021

<https://doi.org/10.1126/science.abe0595>

Live-cell imaging of glucose-induced metabolic coupling of β and α cell metabolism in health and type 2 diabetes

Z. Wang, T. Gurlo, A. V. Matveyenko, D. Elashoff, P. Wang, M. Rosenberger, J. A. Junge, R. C. Stevens, K. L. White, S. E. Fraser & P. C. Butler

Communications Biology. 2021

<https://doi.org/10.1038/s42003-021-02113-1>



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