
Research Publications Featuring the SH800 Cell Sorter in Cell Biology

2022

Gemble S, Wardenaar R, Keuper K, et al. Genetic instability from a single S phase after whole-genome duplication. *Nature*. 2022;604:146-151. [PubMed](#)

Lange JT, Rose JC, Chen CY, et al. The evolutionary dynamics of extrachromosomal DNA in human cancers. *Nat Genet*. 2022;54:1527-1533. [PubMed](#)

de Rooij MFM, Thus YJ, Swier N, Beijersbergen RL, Pals ST, Spaargaren M. A loss-of-adhesion CRISPR-Cas9 screening platform to identify cell adhesion-regulatory proteins and signaling pathways. *Nat Commun*. 2022;13:2136. [PubMed](#)

Kuppe C, Ramirez Flores RO, Li Z, et al. Spatial multi-omic map of human myocardial infarction. *Nature*. 2022;608:766-777. [PubMed](#)

Choudhury A, Magill ST, Eaton CD, et al. Meningioma DNA methylation groups identify biological drivers and therapeutic vulnerabilities. *Nat Genet*. 2022;54:649-659. [PubMed](#)

2021

Mulqueen RM, Pokholok D, O'Connell BL, et al. High-content single-cell combinatorial indexing. *Nat Biotechnol*. 2021;39:1574-1580. [PubMed](#)

Lareau CA, Ludwig LS, Muus C, et al. Massively parallel single-cell mitochondrial DNA genotyping and chromatin profiling. *Nat Biotechnol*. 2021;39:451-461. [PubMed](#)

Shareef SJ, Bevill SM, Raman AT, et al. Extended-representation bisulfite sequencing of gene regulatory elements in multiplexed samples and single cells. *Nat Biotechnol*. 2021;39:1086-1094. [PubMed](#)

Wu Y, Liu Y, Huang Z, et al. Control of the activity of CAR-T cells within tumours via focused ultrasound. *Nat Biomed Eng*. 2021;5:1336-1347. [PubMed](#)

Kuppe C, Ibrahim MM, Kranz J, et al. Decoding myofibroblast origins in human kidney fibrosis. *Nature*. 2021;589:281-286. [PubMed](#)

2020

Zhou T, Damsky W, Weizman O-E, et al. IL-18BP is a secreted immune checkpoint and barrier to IL-18 immunotherapy. *Nature*. 2020;583:609-614. [PubMed](#)

Chen MB, Jiang X, Quake SR, Südhof TC. Persistent transcriptional programmes are associated with remote memory. *Nature*. 2020;587:437-442. [PubMed](#)

Wu J, Hayes BW, Phoenix C, et al. A highly polarized TH2 bladder response to infection promotes epithelial repair at the expense of preventing new infections. *Nat Immunol*. 2020;21:671-683. [PubMed](#)

Zou Y, Henry WS, Ricq EL, et al. Plasticity of ether lipids promotes ferroptosis susceptibility and evasion. *Nature*. 2020;585:603-608. [PubMed](#)

Evnouchidou I, Chappert P, Benadda S, et al. IRAP-dependent endosomal T cell receptor signalling is essential for T cell responses. *Nat Commun*. 2020;11:2779. [PubMed](#)

2019

Maximov V, Chen Z, Wei Y, et al. Tumour-associated macrophages exhibit anti-tumoural properties in Sonic Hedgehog medulloblastoma. *Nat Commun*. 2019;10:2410. [PubMed](#)

Mitchell DM, Sun C, Hunter SS, New DD, Stenkamp DL. Regeneration associated transcriptional signature of retinal microglia and macrophages. *Sci Rep*. 2019;9:4768. [PubMed](#)

2018

Andersen P, Tampakakis E, Jimenez DV, et al. Precardiac organoids form two heart fields via Bmp/Wnt signaling. *Nat Commun*. 2018;9:3140. [PubMed](#)

Nanki K, Toshimitsu K, Takano A, et al. Divergent routes toward Wnt and R-spondin niche independency during human gastric carcinogenesis. *Cell*. 2018;174:856-869.e17. [PubMed](#)

Mancini A, Xavier-Magalhães A, Woods WS, et al. Disruption of the β 1L isoform of GABP reverses glioblastoma replicative immortality in a TERT promoter mutation-dependent manner. *Cancer Cell*. 2018;34:513-528.e8. [PubMed](#)

Takeda K, Mitzushima T, Yokoyama Y, et al. Sox2 is associated with cancer stem-like properties in colorectal cancer. *Sci Rep*. 2018;8:17639. [PubMed](#)

Delarue M, Brittingham GP, Pfeffer S, et al. mTORC1 controls phase separation and the biophysical properties of the cytoplasm by tuning crowding. *Cell*. 2018;174:338-349.e20. [PubMed](#)

2016

Sudo T, Yokota T, Okuzaki D, et al. Endothelial cell-selective adhesion molecule expression in hematopoietic stem/progenitor cells is essential for erythropoiesis recovery after bone marrow injury. *PLoS One*. 2016;11:e0154189. [PubMed](#)

Amagai Y, Fujiyuki T, Yoneda M, et al. Oncolytic activity of a recombinant measles virus, blind to signaling lymphocyte activation molecule, against colorectal cancer cells. *Sci Rep*. 2016;6:24572. [PubMed](#)

Kozgunova E, Suzuki T, Ito M, Higashiyama T, Kuihara D. Haspin has multiple functions in the plant cell division regulatory network. *Plant Cell Physiol*. 2016;57:848-861. [PubMed](#)

2015

Sato K, Hiraiwa T, Maekawa E, Isomura A, Shibata T, Kuranaga E. Left-right asymmetric cell intercalation drives directional collective cell movement in epithelial morphogenesis. *Nat Commun*. 2015;6:10074. [PubMed](#)

Schrage R, Schmitz A-L, Gaffal E, et al. The experimental power of FR900359 to study Gq-regulated biological processes. *Nat Commun*. 2015;6:10156. [PubMed](#)

Kurihara K, Okura Y, Matsuo M, Toyota T, Suzuki K, Sugawara T. A recursive vesicle-based model protocell with a primitive model cell cycle. *Nat Commun*. 2015;6:8352. [PubMed](#)

Furuta C, Miyamoto T, Takagi T, et al. Transforming growth factor- β signaling enhancement by long-term exposure to hypoxia in a tumor microenvironment composed of Lewis lung carcinoma cells. *Cancer Sci*. 2015;106:1524-1533. [PubMed](#)

Miyagawa S, Matsunari H, Watanabe M, et al. Generation of α 1,3-galactosyltransferase and cytidine monophospho-N-acetylneuraminic acid hydroxylase gene double-knockout pigs. *J Reprod Dev*. 2015;61:449-457. [PubMed](#)

Kahlert UD, Suwala AK, Koch K, et al. Pharmacologic Wnt inhibition reduces proliferation, survival, and clonogenicity of glioblastoma cells. *J Neuropathol Exp Neurol*. 2015;74:889-900. [PubMed](#)

Pin C, Parker A, Gunning AP, et al. An individual based computational model of intestinal crypt fission and its application to predicting unrestrictive growth of the intestinal epithelium. *Integr Biol (Camb)*. 2015;7:213-228. [PubMed](#)

Rappa G, Green TM, Karbanová J, Corbeil D, Lorico A. Tetraspanin CD9 determines invasiveness and tumorigenicity of human breast cancer cells. *Oncotarget*. 2015;6:7970-7991. [PubMed](#)

Minami H, Tashiro K, Okada A, et al. Generation of brain microvascular endothelial-like cells from human induced pluripotent stem cells by co-culture with C6 glioma cells. *PLoS One*. 2015;10:e0128890. [PubMed](#)

Yumimoto K, Akiyoshi S, Ueo H, et al. F-box protein FBXW7 inhibits cancer metastasis in a non-cell-autonomous manner. *J Clin Invest*. 2015;125:621-635. [PubMed](#)

2014

Kitani T, Kami D, Matoba S, Gojo S. Internalization of isolated functional mitochondria: involvement of macropinocytosis. *J Cell Mol Med*. 2014;18:1694-1703. [PubMed](#)

Kitani T, Kami D, Kawasaki T, Nakata M, Matoba S, Gojo S. Direct human mitochondrial transfer: a novel concept based on the endosymbiotic theory. *Transplant Proc*. 2014;46:1233-1236. [PubMed](#)

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