

Research Publications Featuring the SH800 Cell Sorter in Immunology

2022

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](#)

Westerling-Bui AD, Fast EM, Soare TW, et al. Transplanted organoids empower human preclinical assessment of drug candidate for the clinic. *Sci Adv.* 2022;8:eabj5633. [PubMed](#)

Radke, JB, Melillo B, Mittal P, et al. Bicyclic azetidines target acute and chronic stages of Toxoplasma gondii by inhibiting parasite phenylalanyl t-RNA synthetase. *Nat Commun.* 2022;13:459. [PubMed](#)

Lee W-S, Al-Ramahi I, Jeong H-H, et al. Cross-species genetic screens identify transglutaminase 5 as a regulator of polyglutamine-expanded ataxin-1. *J Clin Invest.* 2022;132:e156616. [PubMed](#)

Huuhtanen J, Bhattacharya D, Lönnberg T, et al. Single-cell characterization of leukemic and non-leukemic immune repertoires in CD8+ T-cell large granular lymphocytic leukemia. *Nat Commun.* 2022;13:1981. [PubMed](#)

2021

Schoof M, Wang L, Cogan JZ, et al. Viral evasion of the integrated stress response through antagonism of eIF2-P binding to eIF2B. *Nat Commun.* 2021;12:7103. [PubMed](#)

Molodtsov AK, Khatwani N, Vella JL, et al. Resident memory CD8+ T cells in regional lymph nodes mediate immunity to metastatic melanoma. *Immunity.* 2021;54:2117-2132.e7. [PubMed](#)

Dwyer DF, Ordovas-Montanes J, Allon SJ, et al. Human airway mast cells proliferate and acquire distinct inflammation-driven phenotypes during type 2 inflammation. *Sci Immunol.* 2021;6:eabb7221. [PubMed](#)

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

Dubrot J, Lane-Reticker SK, Kessler EA, et al. In vivo screens using a selective CRISPR antigen removal lentiviral vector system reveal immune dependencies in renal cell carcinoma. *Immunity.* 2021;54:571-585.e6. [PubMed](#)

2020

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

Miles LA, Bowman RL, Merlinsky TR, et al. Single-cell mutation analysis of clonal evolution in myeloid malignancies. *Nature.* 2020;587:477-482. [PubMed](#)

Jaeger MG, Schwalb B, Mackowiak SD, et al. Selective mediator dependence of cell-type-specifying transcription. *Nat Genet.* 2020;52:719-727. [PubMed](#)

Magill ST, Vasudevan HN, Seo K, et al. Multiplatform genomic profiling and magnetic resonance imaging identify mechanisms underlying intratumor heterogeneity in meningioma. *Nat Commun.* 2020;11:4803. [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](#)

Ali M, Foldvari Z, Giannakopoulou E, et al. Induction of neoantigen-reactive T cells from healthy donors. *Nat Protoc.* 2019;14:1926-1943. [PubMed](#)

Lalfer M, Chappert P, Carpentier M, Urbain D, Davoust JM, Gross D-A. Foxp3+ regulatory and conventional CD4+ T cells display similarly high frequencies of alloantigen-reactive cells. *Front Immunol.* 2019;10:521. [PubMed](#)

Ebrahim AS, Carion TW, Strand E, Young LA, Shi H, Berger EA. Application of a flow-based hollow-fiber co-culture system to study cellular influences under hyperglycemic conditions. *Sci Rep.* 2019;9:3771. [PubMed](#)

Mizukami Y, Abe T, Shibata H, et al. MHC-matched induced pluripotent stem cells can attenuate cellular and humoral immune responses but are still susceptible to innate immunity in pigs. *PLoS One.* 2014;9:e98319. [PubMed](#)

Miura R, Kasakura K, Nakano N, et al. Role of PU.1 in MHC class II expression via CIITA transcription in plasmacytoid dendritic cells. *PLoS One.* 2016;11:e0154094. [PubMed](#)

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](#)

Silva D-A, Yu S, Ulge UY, et al. De novo design of potent and selective mimics of IL-2 and IL-15. *Nature.* 2019;565:186-191. [PubMed](#)

Parikh K, Antanaviciute A, Fawkner-Corbett D, et al. Colonic epithelial cell diversity in health and inflammatory bowel disease. *Nature*. 2019;567:49-55. [PubMed](#)

Zinzow-Kramer WM, Weiss A, Au-Yeung BB. Adaptation by naïve CD4+ T cells to self-antigen-dependent TCR signaling induces functional heterogeneity and tolerance. *Proc Natl Acad Sci U S A*. 2019;116:15160-15169. [PubMed](#)

Nakanishi Y, Ikebuchi R, Chtanova T, et al. Regulatory T cells with superior immunosuppressive capacity emigrate from the inflamed colon to draining lymph nodes. *Mucosal Immunol*. 2018;11:437-448. [PubMed](#)

Okada M, Chikuma S, Kondo T, et al. Blockage of core fucosylation reduces cell-surface expression of PD-1 and promotes anti-tumor immune responses of T cells. *Cell Rep*. 2017;20:1017-1028. [PubMed](#)

Füger P, Hefendehl JK, Veeraraghavalu K, et al. Microglia turnover with aging and in an Alzheimer's model via long-term *in vivo* single-cell imaging. *Nat Neurosci*. 2017;20:1371-1376. [PubMed](#)

Stelma F, de Nett A, Sinnige M, et al. Human intrahepatic CD69+CD8+ T cells have a tissue resident memory T cell phenotype with reduced cytolytic capacity. *Sci Rep*. 2017;7:6172. [PubMed](#)

Savola P, Kelkka T, Rajala HL, et al. Somatic mutations in clonally expanded cytotoxic T lymphocytes in patients with newly diagnosed rheumatoid arthritis. *Nat Commun*. 2017;8:15869. [PubMed](#)

Ikebuchi R, Teraguchi S, Vandenbon A, et al. A rare subset of skin-tropic regulatory T cells expressing IL10/Gzmb inhibits the cutaneous immune response. *Sci Rep*. 2016;6:35002. [PubMed](#)

McDonald PW, Read KA, Baker CE, et al. IL-7 signalling represses Bcl-6 and the TFH gene program. *Nat Commun*. 2016;7:10285. [PubMed](#)

Fujii C, Kondo T, Ochi H, et al. Altered T cell phenotypes associated with clinical relapse of multiple sclerosis patients receiving fingolimod therapy. *Sci Rep*. 2016;6:35314. [PubMed](#)

Watanabe M, Masaki K, Yamasaki R, et al. Th1 cells downregulate connexin 43 gap junctions in astrocytes via microglial activation. *Sci Rep*. 2016;6:38387. [PubMed](#)

Arai S, Kitada K, Yamazaki T, et al. Apoptosis inhibitor of macrophage protein enhances intraluminal debris clearance and ameliorates acute kidney injury in mice. *Nat Med*. 2016;22:183-193. [PubMed](#)

Yao Y, Norris EH, Mason CE, Strickland S. Laminin regulates PDGFR β (+) cell stemness and muscle development. *Nat Commun*. 2016;7:11415. [PubMed](#)

Asano K, Takahashi N, Ushiki M, et al. Intestinal CD169(+) macrophages initiate mucosal inflammation by secreting CCL8 that recruits inflammatory monocytes. *Nat Commun*. 2015;6:7802. [PubMed](#)

Find out more at:
www.sonybiotechnology.com/sh800