

Selected Publications

BD FACSymphony™ A5/A3, BD LSRFortessa™ M X-50/ X-30 Cell Analysers

Optimised Multicolor Immunofluorescence Panels (OMIPs)

Peer-reviewed publications in Cytometry Part A, which report on newly designed and optimized multicolor panels. Recent OMIP's identify high parameter panels run on FACSymphony A5 analysers:

OMIP-061

20-Color Flow Cytometry Panel for High-Dimensional Characterization of Murine Antigen-Presenting Cells

DiPiazza AT, Hill JP, Graham BS, Ruckwardt TJ.

Cytometry Part A. 2019.

<https://doi.org/10.1002/cyto.a.23880>

OMIP-060

30-Parameter Flow Cytometry Panel to Assess T Cell Effector Functions and Regulatory T Cells

Thomas Liechti and Mario Roederer

Cytometry Part A. 2019; <https://doi.org/10.1002/cyto.a.23853>

OMIP-058

30-Parameter Flow Cytometry Panel to Characterize iNKT, NK, Unconventional and Conventional T Cells

Thomas Liechti and Mario Roederer

Cytometry Part A. 2019; <https://doi.org/10.1002/cyto.a.23850>

OMIP-056

Evaluation of Human Conventional T Cells, Donor-Unrestricted T Cells, and NK Cells Including Memory Phenotype by Intracellular Cytokine Staining

Dintwe O, Rohith S, Schwedhelm KV, McElrath J, Andersen-Nissen A, De Rosa SC Cytometry Part A. 2019;

<https://doi.org/10.1002/cyto.a.23753>

OMIP-051

28-Color Flow Cytometry Panel to Characterize B Cells and Myeloid Cells.

Thomas Liechti and Mario Roederer

Cytometry Part A. 2019; 95A: 150–155.

<https://doi.org/10.1002/cyto.a.23689>

OMIP-050

A 28-color/30-parameter Fluorescence Flow Cytometry Panel to Enumerate and Characterize Cells Expressing a Wide Array of Immune Checkpoint Molecules

Leonard Nettey, Amber J. Giles Pratip and K. Chattopadhyay

Cytometry Part A. 2018; 93: 1094-1096.

<https://doi.org/10.1002/cyto.a.23608>

OMIP-044

28- color immunophenotyping of the human dendritic cell compartment.

Florian Mair and Martin Prlic

Cytometry Part A. 2018; 93(4):402-405.

<https://doi.org/10.1002/cyto.a.23331>



Featured high parameter articles:

A phase 1b randomized study of the safety and immunological responses to vaccination with H4:IC31, H56:IC31, and BCG revaccination in Mycobacterium tuberculosis-uninfected adolescents in Cape Town, South Africa

Bekkera LG, Dintweb O, Fiore-Gartland A, et al. E Clin Med. 2020.

<https://doi.org/10.1016/j.eclinm.2020.100313>

Tumor endothelial cell up-regulation of IDO1 is an immunosuppressive feed-back mechanism that reduces the response to CD40-stimulating immunotherapy.

Georganaki M, Ramachandran M, Tuit S, et al. OncoImmunology, 9:1. 2020.

<https://doi.org/10.1080/2162402X.2020.1730538>

Examining Immunotherapy Response Using Multiple Radio-tracers

Goggi, J.L., Hartimath, S.V., Hwang, Y. et al. Mol Imaging Biol. 2020.

<https://doi.org/10.1007/s11307-020-01477-w>

IRF4 instructs effector Treg differentiation and immune suppression in human cancer.

Alvisi G, Brummelman J, Puccio S, et al. J Clin Invest. 2020.

<https://doi.org/10.1172/JCI130426>

Immunological history governs human stem cell memory CD4 heterogeneity via the Wnt signaling pathway.

Kared, H, Tan, SW, Lau, MC et al. I

Nat Commun 11, 821 (2020).

<https://doi.org/10.1038/s41467-020-14442-6>

Prevention of tuberculosis in macaques after intravenous BCG immunization.

Darrah, P.A., Zeppa, J.J., Maiello, P. et al.

Nature 577, 95–102 (2020).

<https://doi.org/10.1038/s41586-019-1817-8>

29-Color Flow Cytometry: Unraveling Human Liver NK Cell Repertoire Diversity.

Filipovic I, Sonnerborg I, Strunz B, et al.

Front. Immunol., 19 November 2019.

<https://doi.org/10.3389/fimmu.2019.02692>

CXCR3 Identifies Human Naive CD8+ T Cells with Enhanced Effector Differentiation Potential.

J De Simone G, Mazza, EMC, Cassotta, et al.

Immunol. 2019. DOI:

<https://doi.org/10.4049/jimmunol.1901072>

Guidelines for the use of flow cytometry and cell sorting in immunological studies (second edition).

Cossarizza A, Chang HD, Radbruch A, et al.

Eur J Immunology. 2019.

<https://doi.org/10.1002/eji.201970107>

Opposing Functions of Interferon Coordinate Adaptive and Innate Immune Responses to Cancer Immune Checkpoint Blockade.

Benci JL, Johnson LR, Choa R, et al. Cell. 2019.

<https://doi.org/10.1016/j.cell.2019.07.019>

Conservation of molecular and cellular phenotypes of invariant NKT cells between humans and non-human primates.

Yu, KKQ, Wilburn, DB, Hackney, JA et al.

Immunogenetics. 2019.

<https://doi.org/10.1007/s00251-019-01118-9>

Development, application and computational analysis of high-dimensional fluorescent antibody panels for single-cell flow cytometry.

Brummelman J, Haftmann C, Núñez NG.

Nature Protocols. 2019.

<https://doi.org/10.1038/s41596-019-0166-2>

Dynamics of helper CD4 T cells during acute and stable allergic asthma.

Lu Y, Kared H, Tan SW, et al.

Mucosal Immunology. 2018.

<https://doi.org/10.1038/s41385-018-0057-9>

Immune Correlates of Natural HIV Elite Control and Simultaneous HCV Clearance—Supercontrollers.

Dominguez-Molina B, Ferrando-Martinez S, Tarancon-Diez L, et al. Front Immunol. 2018.

<https://doi.org/10.3389/fimmu.2018.02897>

High-dimensional single cell analysis identifies stem-like cytotoxic CD8+ T cells infiltrating human tumors.

Brummelman J, Mazza EM, Alvisi G, et al.

J Exp Med. 2018; 215(10).

<https://doi.org/10.1084/jem.20180684>

Human MAIT cells exit peripheral tissues and recirculate via lymph in steady state conditions.

Voillet V, Buggert M, Slichter CK, et al.

JCI Insight. 2018;3(7):e98487.

<https://doi.org/10.1172/jci.insight.98487>

Activation of human mucosal-associated invariant T cells induces CD40L-dependent maturation of monocyte-derived and primary dendritic cells.

Salio M, Gasser O, Gonzalez-Lopez C, et al.

J Immunol. 2017;199(8):2631-2638.

<https://doi.org/10.4049/jimmunol.1700615>

Additional Citations:

Blockade of the Phagocytic Receptor MerTK on Tumor-Associated Macrophages Enhances P2X7R-Dependent STING Activation by Tumor-Derived cGAMP

Zhou Y, Fei M, Zhang G, et al

Immunity. 2020. <https://doi.org/10.1016/j.immuni.2020.01.014>

Impact of Th1 CD4 Follicular Helper T Cell Skewing on Antibody Responses to an HIV-1 Vaccine in Rhesus Macaques

Verma A, Schmidt BA, Elizaldi SR, et al.

J Virology 2020. <https://doi.org/10.1128/JVI.01737-19>

Structure-Dependent Biodistribution of Liposomal Spherical Nucleic Acids

Ferrer JR, Sinegra AJ, Ivancic D, et al.

ACS Nano 2020. <https://doi.org/10.1021/acsnano.9b07254>

Adoptive T Cell Transfer to Treat Lymphangioliomyomatosis

Han F, Dellacecca ER, Barse LW, et al.

AJRCMB. 2020. <https://doi.org/10.1165/rcmb.2019-01170C>

Dynamics of the Coreceptor-LCK Interactions during T Cell Development Shape the Self-Reactivity of Peripheral CD4 and CD8 T Cells

Horkova V, Drobek A, Mueller D, et al.

Cell Reports. 2020.

<https://doi.org/10.1016/j.celrep.2020.01.008>

CTLA-4 and PD-1 dual blockade induces SIV reactivation without control of rebound after antiretroviral therapy interruption.

Harper, J., Gordon, S., Chan, C.N. et al.

Nat Med (2020). <https://doi.org/10.1038/s41591-020-0782-y>

Single-Cell Transcriptome Analysis Reveals Disease-Defining T-cell Subsets in the Tumor Microenvironment of Classic Hodgkin Lymphoma

Aoki T, Chong LC, Takata K, et al.

Cancer Discovery. 2020.

<https://doi.org/10.1158/2159-8290.CD-19-0680>

Two distinct ubiquitin-binding motifs in A20 mediate its anti-inflammatory and cell-protective activities.

Martens, A., Priem, D., Hoste, E. et al.

Nat Immunol 21, 381–387 2020.

<https://doi.org/10.1038/s41590-020-0621-9>

Encapsulation of Human Natural and Induced Regulatory T-Cells in IL-2 and CCL1 Supplemented Alginate-GelMA Hydrogel for 3D Bioprinting

Kim J, Hope CM, Gantumur, N, et al..

Adv. Funct. Mater. 2020, 2000544.

<https://doi.org/10.1002/adfm.202000544>

Antibiotics Drive Microbial Imbalance and Vitiligo Development in Mice

Dellacecca ER, Cosgrove C, Mukhatayev Z, et al.

J Inv Derm. 2020. <https://doi.org/10.1016/j.jid.2019.08.435>

Generation of Antitumor T Cells For Adoptive Cell Therapy With Artificial Antigen Presenting Cells

Shrestha B, Zhang, Y, Yu B, et al

J Immunotherapy. 2020.

<https://doi.org/10.1097/CJI.0000000000000306>

Multi-Dimensional Flow Cytometry Analyses Reveal a Dichotomous Role for Nitric Oxide in Melanoma Patients Receiving Immunotherapy

Garg SK, Ott MJ, Mostofa AGM, et al.

Front Immunol. 2020. 11:164.

<https://doi.org/10.3389/fimmu.2020.00164>

Rapid Freezing Enables Aminoglycosides To Eradicate Bacterial Persisters via Enhancing Mechanosensitive Channel MscL-Mediated Antibiotic Uptake

Zhao Y, Lv B, Sun F, et al.

mBio. 2020. 11:e03239-19.

<https://doi.org/10.1128/mBio.03239-19>.

Measuring CMI responses using the PrimeFlow RNA assay: A new method of evaluating BVDV vaccination response in cattle

Falkenberg SM, Dassanayake RP, Neill JD, et al.

J Vet Imm. 2020.

<https://doi.org/10.1016/j.vetimm.2020.110024>

Cancer-Specific Loss of p53 Leads to a Modulation of Myeloid and T Cell Responses

Blagih J, Zani, F, Chakravarty P, et al.

Cell Reports. 2020. <https://doi.org/10.1016/j.celrep.2019.12.028>

Cross-Reactivity with Self-Antigen Tunes the Functional Potential of Naive B Cells Specific for Foreign Antigens.

Steach HR, DeBuysscher BL, Schwartz A, et al.

J Immunol February 1, 2020, 204 (3) 498-509; DOI:

<https://doi.org/10.4049/jimmunol.1900799>

Blockade of EGFR improves responsiveness to PD-1 blockade in EGFR-mutated non-small cell lung cancer.

Sugiyama E, Togash Y, Takeuchi Y, et al.

Sci Immunol. Jan 2020: Vol. 5, Issue 43, eaav3937

<https://doi.org/10.1126/sciimmunol.aav3937>

Robust and persistent reactivation of SIV and HIV by N-803 and depletion of CD8+ cells.

McBrien, J.B., Mavigner, M., Franchitti, L. et al.

Nature 578, 154–159 (2020).

<https://doi.org/10.1038/s41586-020-1946-0>

Clonal kinetics and single-cell transcriptional profiling of CAR-T cells in patients undergoing CD19 CAR-T immunotherapy.

Sheih A, Voillet V, Hanafi LA, et al.

Nat Commun 11, 219 (2020).

<https://doi.org/10.1038/s41467-019-13880-1>

HIV infection does not alter interferon α/β receptor 2 expression on mucosal immune cells.

Ickler J, Francois S, Widera M, Santiago ML, Dittmer U, Sutter K (2020)

PLoS ONE 15(1): e0218905.

<https://doi.org/10.1371/journal.pone.0218905>

A spatially restricted fibrotic niche in pulmonary fibrosis is sustained by M-CSF/M-CSFR signalling in monocyte derived alveolar macrophages.

Joshi N, Watanabe S, Verma R, et al.

Eur Respir J 2020; 55:1900646_

<https://doi.org/10.1183/13993003.00646-2019>

Cutting edge approaches for rapid characterization of airway exosomes.

Kenneth P Hough and Jessy S Deshane.

Methods (2020) <https://doi.org/10.1016/j.jymeth.2020.01.003>

Difference in strain pathogenicity of a septicemic *Yersinia pestis* infection in a TLR2-/- mouse model.

O'Donnell KL, Knopick PL, Larsen R, et al.

Infection and Immunity Jan 2020, IAI.00792-19;

<https://doi.org/10.1128/IAI.00792-19>

Inflammatory Cytokines Induce Sustained CTLA-4 Cell Surface Expression on Human MAIT Cells.

Berkson JD, Slichter CK, DeBerg HA, et al.

ImmunoHorizons January 1, 2020, 4 (1) 14-22;

<https://doi.org/10.4049/immunohorizons.1900061>

Aging-Associated Decrease in the Histone Acetyltransferase KAT6B is Linked to Altered Hematopoietic Stem Cell Differentiation.

Kokhar ES, Borikar S, Eudy E, et al.

Exp Hematol. <https://doi.org/10.1016/j.exphem.2020.01.014>

Gut microbiota promote the inflammatory response in the pathogenesis of systemic lupus erythematosus.

Ma Y, Xu X, Li M, et al.

Mol Med. 2019. <https://doi.org/10.1186/s10020-019-0102-5>

Radiotherapy and Cisplatin Increase Immunotherapy Efficacy by Enabling Local and Systemic Intratumoral T-cell Activity.

Kroon P, Frijlink E, Iglesias-Guimaraes V, et al.

Cancer Immunol Res. 2019.

<https://doi.org/10.1158/2326-6066.CIR-18-0654>

Costimulatory Molecules and Immune Checkpoints Are Differentially Expressed on Different Subsets of Dendritic Cells.

Carenza C, Calcaterra F, Oriolo F, et al.

Front Immunol. 2019.

<https://doi.org/10.3389/fimmu.2019.01325>

Human interleukin-2 receptor β mutations associated with defects in immunity and peripheral tolerance.

Zhang Z, Gothe F, Pennamen P, et al.

J Exp Med. 2019. <https://doi.org/10.1084/jem.20182304>

Dihydroartemisinin and its anticancer activity against endometrial carcinoma and cervical cancer: involvement of apoptosis, autophagy and transferrin receptor.

Tang T, Xia Q and Xi M.

Singapore Med Journal. 2019.

<https://doi.org/10.11622/smedj.2019138>

B cells engineered to express pathogen-specific antibodies protect against infection.

Moffett HF, Harms CK, Fitzpatrick KS, et al.

Sci Immunol. 2019.

<https://doi.org/10.1126/sciimmunol.aax0644>

Identifying and targeting pathogenic PI3K/AKT/mTOR signaling in IL-6 blockade–refractory idiopathic multicentric Castleman disease.

Fajgenbaum DC, Langan RA, Japp AS, et al.

J Clin Invest. 2019.

<https://doi.org/10.1172/JCI126091>

Lack of Activation Marker Induction and Chemokine Receptor Switch in Human Neonatal Myeloid Dendritic Cells in Response to Human Respiratory Syncytial Virus.

Le Nouen C, Hillyer P, Levenson E, et al.

J Virology. 2019. <https://doi.org/10.1128/JVI.01216-19>

Clonal Deletion of Tumor-Specific T Cells by Interferon- γ Confers Therapeutic Resistance to Combination Immune Checkpoint Blockade.

Pai, CS, Hurng JT, Lu X, et al.

Immunity. 2019. <https://doi.org/10.1016/j.immuni.2019.01.006>

Maresin 1 activates LGR6 receptor promoting phagocyte immunoresolvent functions.

Chiang N, Libreros S, Norris PC, et al.

JCI. 2019. <https://doi.org/10.1172/JCI129448>

A human immune dysregulation syndrome characterized by severe hyper-inflammation with a homozygous nonsense Roquin-1 mutation.

Tavernier SJ, Athanasopoulos V, Verloo P et al.

Nature Commun. 2019.

<https://doi.org/10.1038/s41467-019-12704-6>

An Evolutionarily Conserved Function of Polycomb Silences the MHC Class I Antigen Presentation Pathway and Enables Immune Evasion in Cancer.

Burr ML, Sparbier CE, Chan KL, et al.
Cancer Cell. 2019. <https://doi.org/10.1016/j.ccell.2019.08.008>

Preclinical development of T-cell receptor-engineered T-cell therapy targeting the 5T4 tumor antigen on renal cell carcinoma.

Xu Y, Morales AJ, Cargill MJ, et al.
Cancer Immunology, Immunotherapy. 2019.
<https://doi.org/10.1007/s00262-019-02419-4>

Integrated proteogenetic analysis reveals the landscape of a mitochondrial-autophagosome synapse during PARK2-dependent mitophagy.

Heo JM, Harper NJ, Paulo JA, et al.
Science Advances. 2019.
<https://doi.org/10.1126/sciadv.aay4624>

Stellate Cells, Hepatocytes, and Endothelial Cells Imprint the Kupffer Cell Identity on Monocytes Colonizing the Liver Macrophage Niche.

Bonnardel J, T'Jonck W, Gaublonne D, et al.
Immunity. 2019. <https://doi.org/10.1016/j.immuni.2019.08.017>

Detection and activation of HIV broadly neutralizing antibody precursor B cells using anti-idiotypes.

Bancroft T, DeBuysscher BL, Weidle C, et al.
JEM. 2019. <https://doi.org/10.1084/jem.20190164>

Crimean-Congo Hemorrhagic Fever Mouse Model Recapitulating Human Convalescence.

Hawman DW, Meade-White K, Haddock E, et al.
J Virology. 2019. <https://doi.org/10.1128/JVI.00554-19>

Simian Immunodeficiency Virus Infection Modulates CD94 (KLRD1) NK Cells in Rhesus Macaques.

Ram DR, Lucar O, Hueber B, and K Reeves.
J Virology. 2019. <https://doi.org/10.1128/JVI.00731-19>

Organotypic tumor slice cultures provide a versatile platform for immuno-oncology and drug discovery.

Sivakumar R, Chan M, Shin JS, et al.
Oncoimmunology. 2019.
<https://doi.org/10.1080/2162402X.2019.1670019>

A spatially restricted fibrotic niche in pulmonary fibrosis is sustained by M-CSF/M-CSFR signaling in monocyte-derived alveolar macrophages.

Joshi N, Watanabe S, Verma R, et al.
European Respiratory Journal 2019;
<https://doi.org/10.1183/13993003.00646-2019>

Alveolar Macrophage Dysfunction and Increased PD-1 Expression During Chronic SIV Infection of Rhesus Macaques

Hunegnaw R, Mushtaq Z, Enyindah-Asonye, et al.
Front. Immunol. 2019.
<https://doi.org/10.3389/fimmu.2019.01537>

Hypoionic Shock Facilitates Aminoglycoside Killing of Both Nutrient Shift- and Starvation-Induced Bacterial Persister Cells by Rapidly Enhancing Aminoglycoside Uptake.

Chen Z, G Y, Lv B, et al.
Front. Microbiol. 2019.
<https://doi.org/10.3389/fmicb.2019.02028>

Neutrophils Driving Unconventional T Cells Mediate Resistance against Murine Sarcomas and Selected Human Tumors.

Ponzetta A, Carriero R, Carnevale S, et al.
Cell. 2019. 11 Jul 2019.
<https://doi.org/10.1016/j.cell.2019.05.047>

Human CD4+CD103+ cutaneous resident memory T cells are found in the circulation of healthy individuals.

Klicznik MM, Morawski PA, Höllbacher B et al.
Science Immunology 05 Jul 2019: Vol. 4, Issue 37, eaav8995.
<https://dx.doi.org/10.1126%2Fsciimmunol.aav8995>

HBeAg seroconversion is associated with a more effective PD-L1 blockade during chronic Hepatitis B infection.

Ferrando-Martinez S, Huang K, Bennett A, et al. JHEP Reports. 2019. <https://doi.org/10.1016/j.jhepr.2019.06.001>

T cell anergy in perinatal mice is promoted by T reg cells and prevented by IL-33.

J Tuncel, C Benoist and D Mathis.
JEM 2019. <https://doi.org/10.1084/jem.20182002>

Ex vivo expanded patient-derived $\gamma\delta$ T-cell immunotherapy enhances neuroblastoma tumor regression in a murine model.

Zoine JT, Knight KA, Fleischer LC, et al.
Oncoimmunology. 2019.
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6682349/>

Mapping of g/d T cells reveals Vd2+ T cells resistance to senescence.

Xu W, Monaco G, Wong EH, et al.
EBioM. 2019; 39:44-58.
<https://doi.org/10.1016/j.ebiom.2018.11.053>

RNA-Seq Signatures Normalized by mRNA Abundance Allow Absolute Deconvolution of Human Immune Cell Types.

Monaco G, Lee B, Xu W, et al.
2019; 26(6): 1627-1640.E7.
<https://doi.org/10.1016/j.celrep.2019.01.041>

Design of Nanoparticulate Group 2 Influenza Virus Hemagglutinin Stem Antigens That Activate Unmutated Ancestor B

Cell Receptors of Broadly Neutralizing Antibody Lineages.

Corbett KS, Moin SM, Yassine HM, et al.

mBio. 2019; 10 (1) e02810-18;

<https://doi.org/10.1128/mBio.02810-18>

Precise tuning of gene expression levels in mammalian cells.

Michaels YS, Barnkob MB, Barbosa H, et al.

Nature Communications. 2019; volume 10, Article number:

818. <https://doi.org/10.1038/s41467-019-08777-y>

cGAS activation causes lupus-like autoimmune disorders in a TREX1 mutant mouse model.

Xiao N, Wei J, Xu S, et al.

J Autoimmunity. 2019;

<https://doi.org/10.1016/j.jaut.2019.03.001>

ARTD1 in Myeloid Cells Controls the IL-12/18–IFN- γ Axis in a Model of Sterile Sepsis, Chronic Bacterial Infection, and Cancer.

Kunze FA, Bauer M, Komuczki J, et al.

J Immunol 2019; 202 (5) 1406-1416;

<https://doi.org/10.4049/jimmunol.1801107>

A novel immunogenic mouse model of melanoma for the preclinical assessment of combination targeted and immune-based therapy.

Lelliott EJ, Cullinane C, Martin CA, et al.

Scientific Reports. 2019; 9(1225).jem

<https://doi.org/10.1038/s41598-018-37883-y>

Costimulation through TLR2 Drives Polyfunctional CD8+ T Cell Responses.

Salerno F, Freen-van Heeren JJ, Guislain A, et al.

J Immunol. 2019; 202 (3) 714-723.

<https://doi.org/10.4049/jimmunol.1801026>

MISTRG mice support engraftment and assessment of nonhuman primate hematopoietic stem and progenitor cells.

Radtke S, Chan Y, Sippel TR, et al.

Experimental Hematology. 2019; 70: 31-41.e1.

<https://doi.org/10.1016/j.exphem.2018.12.003>

Dietary omega-3 and omega-6 polyunsaturated fatty acids modulate hepatic pathology.

Kadge S, Sharp JG, Thiele, GM, et al.

J Nutrition Biochem. 2019.

<https://doi.org/10.1016/j.jnutbio.2017.09.017>

Spatial distribution and function of T follicular regulatory cells in human lymph nodes.

Sayin I, Radtke AJ, Vella LA, et al.

J Exp Med. 2018. <https://doi.org/10.1084/jem.20171940>

Insufficient IL-10 production as a mechanism underlying the pathogenesis of systemic juvenile idiopathic arthritis.

Imbrechts M, Avau A, Jessica V, et al.

J Immunol. 2018;201(9):2654-2663.

<https://doi.org/10.4049/jimmunol.1800468>

Blimp-1 functions as a molecular switch to prevent inflammatory activity in Foxp3+ROR γ t+ regulatory T cells.

Ogawa C, Bankoti R, Nguyen T, et al.

Cell Reports. 2018;25(1):19-25.

<https://doi.org/10.1016/j.celrep.2018.09.016>

Differential Regulation of T-cell mediated anti-tumor memory and cross-protection against the same tumor in lungs versus skin.

O'Konek J, Ambrosino E, Bloom A, et al.

Oncoimmunology. 2018.

<https://doi.org/10.1080/2162402X.2018.1439305>

Cell cycle analysis of hematopoietic stem and progenitor cells by multicolor flow cytometry.

Galvin A, Weglarz M, Folz-Donahue K, et al.

Curr Protoc Cytom. 2018. <https://doi.org/10.1002/cpcy.50>

A hypermorphic nfkbid allele contributes to impaired thymic deletion of autoreactive diabetogenic CD8+ T cells in NOD mice.

Presa M, Racine J, Dwyer J, et al.

J Immunol. 2018. <https://doi.org/10.4049/jimmunol.1800465>

The long non-coding RNA flatr anticipates Foxp3 expression in regulatory T cells.

Brajic A, Franckaert D, Burton O, et al.

Front. Immunol. 2018.

<https://doi.org/10.3389/fimmu.2018.01989>

Mutant KLF1 in adult anemic Nan mice leads to profound transcriptome changes and disordered erythropoiesis.

Nebor D, Graber J, Ciciotte S, et al.

Sci Rep. 2018. <https://doi.org/10.1038/s41598-018-30839-2>

Hexokinase 2 is dispensable for T cell-dependent immunity.

Mehta MM, Weinberg SE, Steinert EM, et al.

Cancer Metabolism. 2018;6:10.

<https://doi.org/10.1186/s40170-018-0184-5>

IL-17-producing ST2+ group 2 innate lymphoid cells play a pathogenic role in lung inflammation.

Cai T, Qiu J, Ji Y, Li W, et al.

J Allergy Clin Immunol. 2018;S0091-6749(18)30453-6.

<https://doi.org/10.1016/j.jaci.2018.03.007>

Peptide-specific recognition of human cytomegalovirus strains controls adaptive natural killer cells.

Hammer Q, Rückert T, Borst EM, et al.

Nat Immunol. 2018;19(5):453-463.

<https://doi.org/10.1038/s41590-018-0082-6>

Vaccine-elicited receptor-binding site antibodies neutralize two New World hemorrhagic fever arenaviruses.

Clark LE, Mahmutovic S, Raymond DD, et al.

Nature Communications. 2018;9(1):1884.

<https://doi.org/10.1038/s41467-018-04271-z>

Fc effector function contributes to the activity of human anti-CTLA-4 antibodies.

Arce Vargas F, Furness AJS, Litchfield K, et al.

Cancer Cell. 2018;33(4):649-663.e4.

<https://doi.org/10.1016/j.ccell.2018.02.010>

Adaptive NKG2C+CD57+ natural killer cell and Tim-3 expression during viral infections.

Kared H, Martelli S, Tan SW, et al.

Frontiers in Immunology. 2018;9:686.

<https://doi.org/10.3389/fimmu.2018.00686>

Global phenotypic characterisation of human platelet lysate expanded MSCs by high-throughput flow cytometry.

Reis M, McDonald D, Nicholson L, et al.

Scientific Reports. 2018;8:3907.

<https://doi.org/10.1038/s41598-018-22326-5>

NK cells stimulate recruitment of cDC1 into the tumor micro-environment promoting cancer immune control.

Böttcher JP, Bonavita E, Chakravarty P, et al.

Cell. 2018;172(5):1022-1037.e14.

<https://doi.org/10.1016/j.cell.2018.01.004>

Use of hemagglutinin stem probes demonstrate prevalence of broadly reactive group 1 influenza antibodies in human sera.

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