

## **2024 SIgN Publications (with impact factor >4)**

Last updated: 19 Dec 2024

### **Impact factor of immunology journals (JCR 2023)**

Abdelbasset M, Saron WAA, Ma D, Rathore APS, Kozaki T, Zhong C, Mantri CK, Tan Y, Tung CC, Tey HL, Chu JJH, Chen J, Ng LG, Wang H, Ginhoux F, St John AL. Differential contributions of fetal mononuclear phagocytes to Zika virus neuroinvasion versus neuroprotection during congenital infection. *Cell.* 2024 Nov 6:S0092-8674(24)01210-8.

Adriani G, Pavesi A. The OrganiX microfluidic system to recreate the complex tumour microenvironment. *Nat Rev Immunol.* 2024 Feb 27.

Alraies Z, Rivera CA, Delgado MG, Sanséau D, Maurin M, Amadio R, Maria Piperno G, Dunsmore G, Yatim A, Lacerda Mariano L, Kniazeva A, Calmettes V, Sáez PJ, Williart A, Popard H, Gratia M, Lamiable O, Moreau A, Fusilier Z, Crestey L, Albaud B, Legoix P, Dejean AS, Le Dorze AL, Nakano H, Cook DN, Lawrence T, Manel N, Benvenuti F, Ginhoux F, Moreau HD, P F Nader G, Piel M, Lennon-Duménil AM. Cell shape sensing licenses dendritic cells for homeostatic migration to lymph nodes. *Nat Immunol.* 2024 Jun 4.

Amali AA, Paramasivam K, Huang CH, Joshi A, Hirpara JL, Ravikumar S, Sam QH, Tan RYM, Tan Z, Kumar D, Neckers LM, Pervaiz S, Foo R, Chan CYY, Zhu J, Lee C, Chai LYA. Mitochondrial chaperon TNF-receptor- associated protein 1 as a novel apoptotic regulator conferring susceptibility to *Pneumocystis jirovecii* pneumonia. *Front Immunol.* 2024 Aug 19;15:1423086.

Appios A, Davies J, Sirvent S, Henderson S, Trzebanski S, Schroth J, Law ML, Carvalho IB, Pinto MM, Carvalho C, Kan HY, Lovlekar S, Major C, Vallejo A, Hall NJ, Ardern-Jones M, Liu Z, Ginhoux F, Henson SM, Gentek R, Emmerson E, Jung S, Polak ME, Bennett CL. Convergent evolution of monocyte differentiation in adult skin instructs Langerhans cell identity. *Sci Immunol.* 2024 Sep 6;9(99):eadp0344.

Araujo David B, Atif J, Vargas E Silva Castanheira F, Yasmin T, Guillot A, Ait Ahmed Y, Peiseler M, Hommes JW, Salm L, Brundler MA, Surewaard BGJ, Elhenawy W, MacParland S, Ginhoux F, McCoy K, Kubes P. Kupffer cell reverse migration into the liver sinusoids mitigates neonatal sepsis and meningitis. *Sci Immunol.* 2024 Nov;9(101):eadq9704.

Azam AB, Wee F, Väyrynen JP, Yim WW, Xue YZ, Chua BL, Lim JCT, Somasundaram AC, Tan DSW, Takano A, Chow CY, Khor LY, Lim TKH, Yeong J, Lau MC, Cai Y. Training immunophenotyping deep learning models with the same-section ground truth cell label derivation method improves virtual staining accuracy. *Front Immunol.* 2024 Jun 28;15:1404640.

Bannier-Hélaouët M, Korving J, Ma Z, Begthel H, Giladi A, Lamers MM, van de Wetering WJ, Yawata N, Yawata M, LaPointe VLS, Dickman MM, Kalmann R, Imhoff SM, van Es JH, López-Iglesias C, Peters PJ, Haagmans BL, Wu W, Clevers H. Human conjunctiva organoids to study ocular surface homeostasis and disease. *Cell Stem Cell.* 2024 Jan 4:S1934-5909(23)00438-1.

Blériot C, Dunsmore G, Alonso-Curbelo D, Ginhoux F. A temporal perspective for tumor-associated macrophage identities and functions. *Cancer Cell.* 2024 Apr 23:S1535-6108(24)00126-0.

Blériot C, Anagnostopoulos G, Ginhoux F. Deciphering the role of immune system in the obesity-cancer relationship. *Cell Res.* 2024 Jul 30.

Boretto M, Geurts MH, Gandhi S, Ma Z, Staliarova N, Celotti M, Lim S, He GW, Millen R, Driehuis E, Begthel H, Smabers L, Roodhart J, van Es J, Wu W, Clevers H. Epidermal growth factor receptor (EGFR) is a target of the tumor-suppressor E3 ligase FBXW7. *Proc Natl Acad Sci U S A*. 2024 Mar 19;121(12):e2309902121.

Celhar T, Li X, Zhao Y, Tay HC, Lee A, Liew HH, Shepherdson EK, Rajarethinam R, Fan Y, Mak A, Chan JKY, Singhal A, Takahashi T. Fetal liver CD34+ contain human immune and endothelial progenitors and mediate solid tumor rejection in NOG mice. *Stem Cell Res Ther*. 2024 Jun 9;15(1):164. Chen Y, Zhang L, Wu X, Sun X, Sundah NR, Wong CY, Natalia A, Tam JKC, Lim DW, Chowbay B, Ang BT, Tang C, Loh TP, Shao H. Magnetic augmentation through multi-gradient coupling enables direct and programmable profiling of circulating biomarkers. *Nat Commun*. 2024 Sep 27;15(1):8410.

Dudziak D, Heger L, Agace WW, Bakker J, de Gruijl TD, Dress RJ, Dutertre CA, Fenton TM, Fransen MF, Ginhoux F, Heyman O, Horev Y, Hornsteiner F, Kandiah V, Kles P, Lubin R, Mizraji G, Prokopi A, Saar O, Sopper S, Stoitzner P, Strandt H, Sykora MM, Toffoli EC, Tripp CH, van Pul K, van de Ven R, Wilensky A, Yona S, Zelle-Rieser C. Guidelines for preparation and flow cytometry analysis of human nonlymphoid tissue DC. *Eur J Immunol*. 2024 Dec 12:e2250325

Dunsmore G, Guo W, Li Z, Bejarano DA, Pai R, Yang K, Kwok I, Tan L, Ng M, De La Calle Fabregat C, Yatim A, Bougouin A, Mulder K, Thomas J, Villar J, Bied M, Kloeckner B, Dutertre CA, Gessain G, Chakarov S, Liu Z, Scoazec JY, Lennon-Dumenil AM, Marichal T, Sautès-Fridman C, Fridman WH, Sharma A, Su B, Schlitzer A, Ng LG, Blériot C, Ginhoux F. Timing and location dictate monocyte fate and their transition to tumor-associated macrophages. *Sci Immunol*. 2024 Jul 26;9(97):eadk3981.

Elomaa H, Häkkinen J, Väyrynen SA, Ahtiainen M, Ogino S, Nowak JA, Lau MC, Helminen O, Wirta EV, Seppälä TT, Böhm J, Mecklin JP, Kuopio T, Väyrynen JP. Quantitative multiplexed analysis of IDO and ARG1 expression and myeloid cell infiltration in colorectal cancer. *Mod Pathol*. 2024 Feb 16:100450.

Erreni M, Fumagalli MR, D'Anna R, Sollai M, Bozzarelli S, Nappo G, Zanini D, Parente R, Garlanda C, Rimassa L, Terracciano LM, Biswas SK, Zerbi A, Mantovani A, Doni A. Depicting the cellular complexity of pancreatic adenocarcinoma by Imaging Mass Cytometry: focus on cancer-associated fibroblasts. *Front Immunol*. 2024 Nov 7;15:1472433.

Gao Q, Ji Z, Wang L, Owzar K, Li QJ, Chan C, Xie J. SifiNet: a robust and accurate method to identify feature gene sets and annotate cells. *Nucleic Acids Res*. 2024 Apr 22:gkae307.

Gessain G, Anzali AA, Lerousseau M, Mulder K, Bied M, Auperin A, Stockholm D, Signolle N, Sassi F, Marques Da Costa ME, Marchais A, Sayadi A, Weidner D, Uderhardt S, Blampey Q, Nakkireddy SR, Broutin S, Dutertre CA, Busson P, Walter T, Marhic A, Moya-Plana A, Guerlain J, Breuskin I, Casiraghi O, Gorphe P, Classe M, Scoazec JY, Blériot C, Ginhoux F. Trem2-expressing multinucleated giant macrophages are a biomarker of good prognosis in head and neck squamous cell carcinoma. *Cancer Discov*. 2024 Sep 16.

Gilglioni EH, Li A, St-Pierre-Wijckmans W, Shen TK, Pérez-Chávez I, Hovhannisyan G, Lisjak M, Negueruela J, Vandembempt V, Bauzá-Martinez J, Herranz JM, Ezerina D, Demine S, Feng Z, Vignane T, Otero Sanchez L, Lambertucci F, Prašnická A, Devière J, Hay DC, Encinar JA, Singh SP, Messens J, Filipovic MR, Sharpe HJ, Trépo E, Wu W, Gurzov EN. PTPRK regulates glycolysis and de novo lipogenesis to promote hepatocyte metabolic reprogramming in obesity. *Nat Commun*. 2024 Nov 4;15(1):9522.

Goh YS, Fong SW, Hor PX, Loh CY, Tay MZ, Wang B, Salleh SNM, Ngoh EZX, Lee RTC, Poh XY, Lee IR, Rao S, Chia PY; PRIBIVAC Cohort Study Group; Maurer-Stroh S, Wang CJ, Leo YS, Lye DC, Young BE, Ng LFP, Renia L. Imprinting of IgA responses in previously infected individuals receiving bivalent mRNA vaccines (WT and BA.4/BA.5 or WT and BA.1). *Int J Infect Dis.* 2024 Jun 28;146:107147.

Guo W, Li Z, Anagnostopoulos G, Kong WT, Zhang S, Chakarov S, Shin A, Qian J, Zhu Y, Bai W, Cexus O, Nie B, Wang J, Hu X, Blériot C, Liu Z, Shen B, Ventecler N, Su B, Ginhoux F. Notch signaling regulates macrophage-mediated inflammation in metabolic dysfunction-associated steatotic liver disease. *Immunity.* 2024 Oct 8;57(10):2310-2327.e6.

Hayes BW, Choi HW, Rathore APS, Bao C, Shi J, Huh Y, Kim MW, Mencarelli A, Bist P, Ng LG, Shi C, Nho JH, Kim A, Yoon H, Lim D, Hannan JL, Purves JT, Hughes FM Jr, Ji RR, Abraham SN. Recurrent infections drive persistent bladder dysfunction and pain via sensory nerve sprouting and mast cell activity. *Sci Immunol.* 2024 Mar;9(93):eadi5578.

Hendriks D, Pagliaro A, Andreatta F, Ma Z, van Giessen J, Massalini S, López-Iglesias C, van Son GJF, DeMartino J, Damen JMA, Zoutendijk I, Staliarova N, Bredenoord AL, Holstege FCP, Peters PJ, Margaritis T, Chuva de Sousa Lopes S, Wu W, Clevers H, Artegiani B. Human fetal brain self-organizes into long-term expanding organoids. *Cell.* 2024 Jan 4:S0092-8674(23)01344-2.

Ho VWT, Boon LH, Cui J, Juequn Z, Shunmuganathan B, Gupta R, Tan NYJ, Qian X, Purushotorman K; SCOPE Cohort Study Group; Fong SW, Renia L, Ng LFP, Angelis V, Chen J, Kennedy BK, Ong CWM, Macary PA. Relative deficiency in interferon- $\gamma$ -secreting CD4+ T cells is strongly associated with poorer COVID-19 vaccination responses in older adults. *Aging Cell.* 2024 Feb 5:e14099.

Honardoost MA, Adinatha A, Schmidt F, Ranjan B, Ghaeidamini M, Arul Rayan N, Gek Liang Lim M, Joanito I, Xiao Xuan Lin Q, Rajagopalan D, Qi Mok S, Hwang YY, Larbi A, Khor CC, Foo R, Boehm BO, Prabhakar S. Systematic immune cell dysregulation and molecular subtypes revealed by single-cell RNA-seq of subjects with type 1 diabetes. *Genome Med.* 2024 Mar 27;16(1):45.

Hong M, Chong SZ, Goh YY, Tong L. Two-Photon and Multiphoton Microscopy in Anterior Segment Diseases of the Eye. *Int J Mol Sci.* 2024 Jan 30;25(3):1670.

Jiao H, James SJ, Png CW, Cui C, Li H, Li L, Chia WN, Min N, Li W, Claser C, Rénia L, Wang H, Chen MI, Chu JJH, Tan KSW, Deng Y, Zhang Y. DUSP4 modulates RIG-I- and STING-mediated IFN response. *Cell Death Differ.* 2024 Mar;31(3):280-291.

Kaur E, Agrawal R, Arun R, Madhavan V, Srivastava V, Kumar D, Rath PP, Kumar N, Vedagopuram S, Pandey N, Priya S, Legembre P, Gourinath S, Bajaj A, Sengupta S. Small molecules that disrupt RAD54-BLM interaction hamper tumor proliferation in colon cancer chemoresistance models. *J Clin Invest.* 2024 Feb 29:e161941.

Kirschenbaum D, Xie K, Ingelfinger F, Katzenellenbogen Y, Abadie K, Look T, Sheban F, Phan TS, Li B, Zwicky P, Yofe I, David E, Mazuz K, Hou J, Chen Y, Shaim H, Shanley M, Becker S, Qian J, Colonna M, Ginhoux F, Rezvani K, Theis FJ, Yosef N, Weiss T, Weiner A, Amit I. Time-resolved single-cell transcriptomics defines immune trajectories in glioblastoma. *Cell.* 2024 Jan 4;187(1):149-165.e23.

Kostic L, Leung C, Ahmad Murad K, Kancheva S, Perna S, Lee B, Barker N. Lgr5 marks stem/progenitor cells contributing to epithelial and muscle development in the mouse esophagus. *Nat Commun.* 2024 Aug 21;15(1):7145.

Lan Y, Zhang X, Liu S, Guo C, Jin Y, Li H, Wang L, Zhao J, Hao Y, Li Z, Liu Z, Ginhoux F, Xie Q, Xu H, Jia JM, He D. Fate mapping of Spp1 expression reveals age-dependent plasticity of disease-associated microglia-like cells after brain injury. *Immunity*. 2024 Feb 13;57(2):349-363.e9.

Lawrence AR, Canzi A, Bridlance C, Olivé N, Lansonneur C, Catale C, Pizzamiglio L, Kloeckner B, Silvin A, Munro DAD, Fortoul A, Boido D, Zehani F, Cartonnet H, Viguer S, Oller G, Squarzoni P, Candat A, Helft J, Allet C, Watrin F, Manent JB, Paoletti P, Thieffry D, Cantini L, Pridans C, Priller J, Gélot A, Giacobini P, Ciobanu L, Ginhoux F, Thion MS, Lokmane L, Garel S. Microglia maintain structural integrity during fetal brain morphogenesis. *Cell*. 2024 Feb 15;187(4):962-980.e19. doi: 10.1016/j.cell.2024.01.012.

Lee WWL, Lim JQ, Tang TPL, Tan D, Koh SM, Puan KJ, Wang LW, Lim J, Tan KP, Chng WJ, Lim ST, Ong CK and Rotzschke O. Counterproductive effects of anti-CD38 and checkpoint inhibitor for the treatment of NK/T cell lymphoma. *Front. Immunol.*, 12 April 2024 Volume 15 - 2024

Li G, Sun Y, Kwok I, Yang L, Wen W, Huang P, Wu M, Li J, Huang Z, Liu Z, He S, Peng W, Bei JX, Ginhoux F, Ng LG, Zhang Y. Cebp1 and Cebp $\beta$  transcriptional axis controls eosinophilopoiesis in zebrafish. *Nat Commun*. 2024 Jan 27;15(1):811.

Li M, Ang KS, Teo B, Rom U, Nguyen MN, Maurer-Stroh S, Chen J. Rediscovering publicly available single-cell data with the DISCO platform. *Nucleic Acids Res*. 2024 Nov 13:gkae1108.

Li W, Pan L, Hong W, Ginhoux F, Zhang X, Xiao C, Li X. A single-cell pan-cancer analysis to show the variability of tumor-infiltrating myeloid cells in immune checkpoint blockade. *Nat Commun*. 2024 Jul 21;15(1):6142.

Li Y, Ong JWX, See YM, Yee JY, Tang C, Zheng S, Ng BT, Lee BTK, Rotzschke O, Andiappan AK, Lee J. Immunophenotyping schizophrenia subtypes stratified by antipsychotic response. *Brain Behav Immun*. 2024 Oct 14;123:656-671.

Lin QXX, Rajagopalan D, Gamage AM, Tan LM, Venkatesh PN, Chan WOY, Kumar D, Agrawal R, Chen Y, Fong SW, Singh A, Sun LJ, Tan SY, Chai LYA, Somanji J, Lee B, Renia L, Ng LFP, Ramanathan K, Wang LF, Young B, Lye D, Singhal A, Prabhakar S. Longitudinal single cell atlas identifies complex temporal relationship between type I interferon response and COVID-19 severity. *Nat Commun*. 2024 Jan 18;15(1):567.

Liu M, Bertolazzi G, Sridhar S, Lee RX, Jaynes P, Mulder K, Syn N, Hoppe MM, Fan S, Peng Y, Thng J, Chua R, Jayalakshmi, Batumalai Y, De Mel S, Poon L, Chan EHL, Lee J, Hue SS, Chang ST, Chuang SS, Chandy KG, Ye X, Pan-Hammarström Q, Ginhoux F, Chee YL, Ng SB, Tripodo C, Jeyasekharan AD. Spatially-resolved transcriptomics reveal macrophage heterogeneity and prognostic significance in diffuse large B-cell lymphoma. *Nat Commun*. 2024 Mar 8;15(1):2113.

Liu M, Zhu B, Li QJ. IL-1 signaling in aging and cancer: An inflamming feedback loop unveiled. *Cancer Cell*. 2024 Oct 8:S1535-6108(24)00363-5.

Liu WN, Harden SL, Tan SLW, Tan RJR, Fong SY, Tan SY, Liu M, Karnik I, Shuen TWH, Toh HC, Fan Y, Lim SG, Chan JKY, Chen Q. Single-cell RNA sequencing reveals anti-tumor potency of CD56+ NK cells and CD8+ T cells in humanized mice via PD-1 and TIGIT co-targeting. *Mol Ther*. 2024 Sep 23:S1525-0016(24)00611-7.

Long Y, Ang KS, Sethi R, Liao S, Heng Y, van Olst L, Ye S, Zhong C, Xu H, Zhang D, Kwok I, Husna N, Jian M, Ng LG, Chen A, Gascoigne NRJ, Gate D, Fan R, Xu X, Chen J. Deciphering spatial domains from spatial multi-omics with SpatialGlue. *Nat Methods*. 2024 Jun 21.

Lubin R, Patel AA, Mackerodt J, Zhang Y, Gvili R, Mulder K, Dutertre CA, Jalali P, Glanville JRW, Hazan I, Sridharan N, Rivkin G, Akarca A, Marafioti T, Gilroy DW, Kandel L, Mildner A, Wilensky A, Asquith B, Ginhoux F, Macallan D, Yona S. The lifespan and kinetics of human dendritic cell subsets and their precursors in health and inflammation. *J Exp Med*. 2024 Nov 4;221(11):e20220867.

Lum FM, Chan YH, Teo TH, Becht E, Amrun SN, Teng KW, Hartimath SV, Yeo NK, Yee WX, Ang N, Torres-Ruesta AM, Fong SW, Goggi JL, Newell EW, Renia L, Carissimo G, Ng LF. Crosstalk between CD64+MHCII<sup>+</sup> macrophages and CD4+ T cells drives joint pathology during chikungunya. *EMBO Mol Med*. 2024 Feb 8.

Lv R, Guo Y, Liu W, Dong G, Liu X, Li C, Ren Y, Zhang Z, Neo SY, Mao W, Wu J. Revolutionizing cancer treatment: the emerging potential and potential challenges of in vivo self-processed CAR cell therapy. *Theranostics*. 2024 Oct 28;14(19):7424-7447.

Mencarelli A, Bist P, Choi HW, Khameneh HJ, Mortellaro A, Abraham SN. Anaphylactic degranulation by mast cells requires the mobilization of inflammasome components. *Nat Immunol*. 2024 Mar 14.

Miwa T, Rengasamy G, Liu Z, Ginhoux F, Okano T. Contribution of circulating monocytes in maintaining homeostasis of resident macrophages in postnatal and young adult mouse cochlea. *Sci Rep*. 2024 Jan 2;14(1):62.

Morikawa S, Ko HL, Ren EC, Hara K, Kaneko N, Hishimura N, Nakamura A, Manabe A. Functional Analysis of a Novel HNF4A Variant Identified in a Patient With MODY1. *J Endocr Soc*. 2024 May 7;8(6):bvae090.

Neo SY, Tong L, Chong J, Liu Y, Jing X, Oliveira MMS, Chen Y, Chen Z, Lee K, Burduli N, Chen X, Gao J, Ma R, Lim JP, Huo J, Xu S, Alici E, Wickström SL, Haglund F, Hartman J, Wagner AK, Cao Y, Kiessling R, Lam KP, Westerberg LS, Lundqvist A. Tumor-associated NK cells drive MDSC-mediated tumor immune tolerance through the IL-6/STAT3 axis. *Sci Transl Med*. 2024 May 15;16(747):eadi2952.

Ng MSF, Kwok I, Tan L, Shi C, Cerezo-Wallis D, Tan Y, Leong K, Calvo GF, Yang K, Zhang Y, Jin J, Liang KH, Wu D, He R, Liu D, Teh YC, Bleriot C, Caronni N, Liu Z, Duan K, Narang V, Ballesteros I, Moalli F, Li M, Chen J, Liu Y, Liu L, Qi J, Liu Y, Jiang L, Shen B, Cheng H, Cheng T, Angeli V, Sharma A, Loh YH, Tey HL, Chong SZ, Iannacone M, Ostuni R, Hidalgo A, Ginhoux F, Ng LG. Deterministic reprogramming of neutrophils within tumors. *Science*. 2024 Jan 12;383(6679):eadf6493.

Pal R, Talwar S, Pandey M, Nain VK, Sharma T, Tyagi S, Barik V, Chaudhary S, Gupta SK, Kumar Y, Nanda R, Singhal A, Pandey AK. Rv0495c regulates redox homeostasis in Mycobacterium tuberculosis. *Tuberculosis* (Edinb). 2024 Jan 6;145:102477.

Palmieri C, Santamaria G, Cristiani CM, Garofalo C, Tham CYL, Abatino A, Cutruzzolà A, Parise M, Aversa I, Malanga D, Gallo R, Cuda G, Viglietto G, Costanzo F, Bertoletti A, Gnasso A, Irace C. T-cell immunity against Severe Acute Respiratory Syndrome Coronavirus 2 proteins in patients with type 1 diabetes. *Diabetes Metab Res Rev*. 2024 May;40(4):e3811

Patir A, Barrington J, Szymkowiak S, Brezzo G, Straus D, Alfieri A, Lefevre L, Liu Z, Ginhoux F, Henderson NC, Horsburgh K, Ramachandran P, McColl BW. Phenotypic and spatial heterogeneity of brain myeloid cells after stroke is associated with cell ontogeny, tissue damage, and brain connectivity. *Cell Rep.* 2024 May 28;43(5):114250.

Poh XY, Lee IR, Tan CW, Chavatte JM, Fong SW, Goh YS, Rouers A, Wong N, Torres-Ruesta A, Mah SY, Yeoh AYY, Gandhi M, Rahman N, Chin YQ, Lim JJ, Yoong TJK, Rao S, Chia PY, Ong SWX, Lee TH, Sadarangani SP, Lin RJH, Lim DRX, Chia W, Renia L, Ren EC, Lin RTP, Lye DC, Wang LF, Ng LFP, Young BE. First SARS-CoV-2 Omicron infection as an effective immune booster among mRNA vaccinated individuals: final results from the first phase of the PRIBIVAC randomised clinical trial. *EBioMedicine.* 2024 Aug 12;107:105275.

Poh XY, Torres-Ruesta A, Yoong T, Wong N, Tan CW, Rouers A, Chavatte JM, Goh YS, Rao S, Chia PY, Ong SWX, Lee TH, Sadarangani SP, Lin RJH, Neo V, Kam IKJ, Huang Y, Hor PX, Loh CY; PRIBIVAC study group; Yeoh AY, Lim DRX, Chia W, Ren EC, Lin RTP, Fong SW, Renia L, Lye DC, Wang LF, Ng LFP, Young BE. Immunogenicity of mRNA vs. BBV152 vaccine boosters against Omicron subvariants: Final results from Phase B of the PRIBIVAC study, a randomized clinical trial. *Vaccine.* 2024 Nov 14;42(25):126275

Quek YJ, Tay A. Nanoscale Methods for Longitudinal Extraction of Intracellular Contents. *Adv Mater.* 2024 Mar 9:e2314184

Ravikrishnan A, Wijaya I, Png E, Chng KR, Ho EXP, Ng AHQ, Mohamed Naim AN, Gounot JS, Guan SP, Hanqing JL, Guan L, Li C, Koh JY, de Sessions PF, Koh WP, Feng L, Ng TP, Larbi A, Maier AB, Kennedy BK, Nagarajan N. Gut metagenomes of Asian octogenarians reveal metabolic potential expansion and distinct microbial species associated with aging phenotypes. *Nat Commun.* 2024 Sep 5;15(1):7751

Rodrigues PF, Trsan T, Cvijetic G, Khantakova D, Panda SK, Liu Z, Ginhoux F, Cella M, Colonna M. Progenitors of distinct lineages shape the diversity of mature type 2 conventional dendritic cells. *Immunity.* 2024 May 23:S1074-7613(24)00260-7.

Ruscitti C, Abinet J, Maréchal P, Meunier M, de Meeùs C, Vanneste D, Janssen P, Dourcy M, Thiry M, Bureau F, Schneider C, Machiels B, Hidalgo A, Ginhoux F, Dewals BG, Guiot J, Schleich F, Garigliany MM, Bellahcène A, Radermecker C, Marichal T. Recruited atypical Ly6G+ macrophages license alveolar regeneration after lung injury. *Sci Immunol.* 2024 Aug 2;9(98):eado1227.

Salem GM, Galula JU, Wu SR, Liu JH, Chen YH, Wang WH, Wang SF, Song CS, Chen FC, Abarrientos AB, Chen GW, Wang CY, Chao DY. Antibodies from dengue patients with prior exposure to Japanese encephalitis virus are broadly neutralizing against Zika virus. *Commun Biol.* 2024 Jan 24;7(1):15.

Segui-Perez C, Stapels DAC, Ma Z, Su J, Passchier E, Westendorp B, Wubbolts RW, Wu W, van Putten JPM, Strijbis K. MUC13 negatively regulates tight junction proteins and intestinal epithelial barrier integrity via Protein Kinase C. *J Cell Sci.* 2024 Feb 12:jcs.261468.

Sethi R, Ang KS, Li M, Long Y, Ling J, Chen J. ezSingleCell: an integrated one-stop single-cell and spatial omics analysis platform for bench scientists. *Nat Commun.* 2024 Jul 3;15(1):5600.

Shi R, Yu S, Larbi A, Pin Ng T, Lu Y. Specific and cumulative infection burden and mild cognitive impairment and dementia: A population-based study. *Brain Behav Immun.* 2024 Jul 21;121:155-164.

Stayoussef M, Weili X, Habel A, Barbirou M, Bedoui S, Attia A, Omrani Y, Zouari K, Maghrebi H, Almawi WY, Bouhaouala-Zahar B, Larbi A, Yacoubi-Loueslati B. Altered expression of cytokines,

chemokines, growth factors, and soluble receptors in patients with colorectal cancer, and correlation with treatment outcome. *Cancer Immunol Immunother.* 2024 Jul 2;73(9):169.

Sultana R, Chen S, Lim EH, Dent R, Chowbay B. Efficacy and safety of sacituzumab govitecan Trop-2-targeted antibody-drug conjugate in solid tumors and UGT1A1\*28 polymorphism: a systematic review and meta-analysis. *BJC Rep.* 2024 Nov 11;2(1):85.

Tan L, Yin T, Xiang H, Wang L, Mudgal P, Chen J, Ding Y, Wang G, Lim BJW, Huang Y, Huang D, Liang Y, Alexander PB, Xiang K, Wang E, Yan C, Ma Z, Tan M, Li QJ, Wang XF. Aberrant cytoplasmic expression of UHRF1 restrains the MHC-I-mediated anti-tumor immune response. *Nat Commun.* 2024 Oct 3;15(1):8569.

Tay RE, P L, Pang ST, Low KE, Tay HC, Ho CM, Malleret B, Rötzschke O, Olivo M, Tay ZW. High-efficiency magnetophoretic labelling of adoptively-transferred T cells for longitudinal in vivo Magnetic Particle Imaging. *Theranostics.* 2024 Sep 23;14(16):6138-6160.

Theobald H, Bejarano DA, Katzmarski N, Haub J, Schulte-Schrepping J, Yu J, Bassler K, Ament AL, Osei-Sarpong C, Piattini F, Vornholz L, T'Jonck W, Györfi AH, Hayer H, Yu X, Sheoran S, Al Jawazneh A, Chakarov S, Haendler K, Brown GD, Williams DL, Bosurgi L, Distler JHW, Ginhoux F, Ruland J, Beyer MD, Greter M, Bain CC, Vazquez-Armendariz AI, Kopf M, Schultze JL, Schlitzer A. Apolipoprotein E controls Dectin-1-dependent development of monocyte-derived alveolar macrophages upon pulmonary β-glucan-induced inflammatory adaptation. *Nat Immunol.* 2024 Apr 26.

Tiwari SK, Wong WJ, Moreira M, Pasqualini C, Ginhoux F. Induced pluripotent stem cell-derived macrophages as a platform for modelling human disease. *Nat Rev Immunol.* 2024 Sep 27.

Tsai CY, Oo M, Peh JH, Yeo BCM, Aptekmann A, Lee B, Liu JJJ, Tsao WS, Dick T, Fink K, Gengenbacher M. Splenic marginal zone B cells restrict Mycobacterium tuberculosis infection by shaping the cytokine pattern and cell-mediated immunity. *Cell Rep.* 2024 Jul 2;43(7):114426.

van de Wakker SI, Bauzá-Martinez J, Ríos Arceo C, Manjikian H, Snijders Blok CJB, Roefs MT, Willms E, Maas RGC, Pronker MF, de Jong OG, Wu W, Görgens A, El Andaloussi S, Sluijter JPG, Vader P. Size matters: Functional differences of small extracellular vesicle subpopulations in cardiac repair responses. *J Extracell Vesicles.* 2024 Jan;13(1):e12396.

Wang A, Fairhurst AM, Liu K, Wakeland B, Barnes S, Malladi VS, Viswanathan K, Arana C, Dozmorov I, Singhar A, Du Y, Imam M, Moses A, Chen C, Sunkavalli A, Casco J, Rakheja D, Li QZ, Mohan C, Clayberger C, Wakeland EK, Khan S. KLF13 promotes SLE pathogenesis by modifying chromatin accessibility of key proinflammatory cytokine genes. *Commun Biol.* 2024 Nov 6;7(1):1446.

Wienke J, Visser LL, Kholosy WM, Keller KM, Barisa M, Poon E, Munnings-Tomes S, Himsworth C, Calton E, Rodriguez A, Bernardi R, van den Ham F, van Hooff SR, Matser YAH, Tas ML, Langenberg KPS, Lijnzaad P, Borst AL, Zappa E, Bergsma FJ, Strijker JGM, Verhoeven BM, Mei S, Kramdi A, Restuadi R, Sanchez-Bernabeu A, Cornel AM, Holstege FCP, Gray JC, Tytgat GAM, Scheijde-Vermeulen MA, Wijnen MHWA, Dierselhuis MP, Straathof K, Behjati S, Wu W, Heck AJR, Koster J, Nierkens S, Janoueix-Lerosey I, de Krijger RR, Baryawno N, Chesler L, Anderson J, Caron HN, Margaritis T, van Noesel MM, Molenaar JJ. Integrative analysis of neuroblastoma by single-cell RNA sequencing identifies the NECTIN2-TIGIT axis as a target for immunotherapy. *Cancer Cell.* 2023 Dec 27:S1535-6108(23)00436-1.

Wirjanata G, Lin J, Dziekan JM, El Sahili A, Chung Z, Tjia S, Binte Zulkifli NE, Boentoro J, Tham R, Jia LS, Go KD, Yu H, Partridge A, Olsen D, Prabhu N, Sobota RM, Nordlund P, Lescar J, Bozdech Z. Identification of an inhibitory pocket in falcilysin provides a new avenue for malaria drug development. *Cell Chem Biol.* 2024 Apr 5:S2451-9456(24)00091-6.

Wong C, Tham CY, Yang L, Benton MC, Narang V, Denil S, Duan K, Yew YW, Lee B, Florez de Sessions P, Common JEA. Nanopore sequencing enables allelic phasing of FLG loss-of-function variants, intragenic copy number variation and methylation status in atopic dermatitis and ichthyosis vulgaris. *J Invest Dermatol.* 2024 Feb 7:S0022-202X(24)00097-6.

Wong KW, Zeng Y, Tay E, Teo JHJ, Cipta NO, Hamashima K, Yi Y, Liu H, Warrier T, Le MTN, Ng SC, Li QJ, Li H, Loh YH. Nuclear receptor-SINE B1 network modulates expanded pluripotency in blastoids and blastocysts. *Nat Commun.* 2024 Nov 19;15(1):10011.

Wu Y, Teh YC, Chong SZ. Going Full TeRM: The Seminal Role of Tissue-Resident Macrophages in Organ Remodeling during Pregnancy and Lactation. *J Immunol.* 2024 Feb 15;212(4):513-521.

Xu H, Fu H, Long Y, Ang KS, Sethi R, Chong K, Li M, Uddamvathanak R, Lee HK, Ling J, Chen A, Shao L, Liu L, Chen J. Unsupervised spatially embedded deep representation of spatial transcriptomics. *Genome Med.* 2024 Jan 12;16(1):12.

Yau JNN, Yempala T, Muthuramalingam RPK, Giustarini G, Teng G, Ang WH, Gibson D, Adriani G, Pastorin G. Fluorescence-Guided Spatial Drug Screening in 3D Colorectal Cancer Spheroids. *Adv Healthc Mater.* 2024 May 22:e2400203.

Yin T, Wang G, Wang L, Mudgal P, Wang E, Pan CC, Alexander PB, Wu H, Cao C, Liang Y, Tan L, Huang D, Chong M, Chen R, Lim BJW, Xiang K, Xue W, Wan L, Hu H, Loh YH, Wang XF, Li QJ. Breaking NGF-TrkA immunosuppression in melanoma sensitizes immunotherapy for durable memory T cell protection. *Nat Immunol.* 2024 Jan 9.

Zhang B, Chen S, Yin X, McBride CD, Gertie JA, Yurieva M, Bielecka AA, Hoffmann B, Travis Hinson J, Grassmann J, Xu L, Siniscalco ER, Soldatenko A, Hoyt L, Joseph J, Norton EB, Uthaman G, Palm NW, Liu E, Eisenbarth SC, Williams A. Metabolic fitness of IgA+ plasma cells in the gut requires DOCK8. *Mucosal Immunol.* 2023 Dec 28:S1933-0219(23)00097-1.

Zhang L, Rojas-Carabali W, Choo SS, Thng ZX, Lim YH, Lee B, Jun SW, Patnaik G, Biswas J, Agarwal A, Testi I, Mahajan S, Kempen JH, Smith JR, McCluskey P, Kon OM, Nguyen QD, Pavesio C, Gupta V, Agrawal R; Collaborative Ocular Tuberculosis Study (COTS) Group. Validation of the Online Collaborative Ocular Tuberculosis Study Calculator for Tubercular Uveitis. *JAMA Ophthalmol.* 2024 Oct 31:e244567.

Zhang WX, Neupane AS, David BA, Ginhoux F, Vargas E Silva Castanheira F, Kubes P. A Functional Assessment of Fetal Liver and Monocyte-Derived Macrophages in the Lung Alveolar Environment. *J Immunol.* 2024 Jan 22:ji2300626.

Zhang Y, Lee RY, Tan CW, Guo X, Yim WW, Lim JC, Wee FY, Yang WU, Kharbanda M, Lee JJ, Ngo NT, Leow WQ, Loo LH, Lim TK, Sobota RM, Lau MC, Davis MJ, Yeong J. Spatial omics techniques and data analysis for cancer immunotherapy applications. *Curr Opin Biotechnol.* 2024 Mar 22;87:103111.

Zhong C, Ang KS, Chen J. Interpretable spatially aware dimension reduction of spatial transcriptomics with STAMP. *Nat Methods*. 2024 Oct 15.