

2025 SigN Publications (with impact factor >4)

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[Impact factor of immunology journals \(JCR 2024\)](#)

Banerjee A, Chatterjee M, Tan KJ, Tay S, Duan K, Andiappan AK, Howland SW, Aso Y, Aw SS. GABAergic neuronal dysfunction underlies tremor in a Drosophila model of Spinocerebellar ataxia 3. *Dis Model Mech*. 2025 Sep 18;dmm.052329.

Behmoaras J, Mulder K, Ginhoux F, Petretto E. The spatial and temporal activation of macrophages during fibrosis. *Nat Rev Immunol*. 2025 Jun 4.

Benhmammouch S, Borowczyk C, Pierrot-Blanchet C, Barouillet T, Murcy F, Dussaud S, Blanc M, Blériot C, Örd T, Habbouche L, Vaillant N, Gerber Y, Cochain C, Gautier EL, Ginhoux F, Thorp EB, Biessen EAL, Sluimer JC, Bodoy S, Palacin M, Bailly-Maitre B, Kaikkonen MU, Yvan-Charvet L. Slc7a7 licenses macrophage glutaminolysis for restorative functions in atherosclerosis. *Nat Metab*. 2025 Sep;7(9):1924-1938.

Bridlance C, Viguié S, Oliivié N, Dupont E, Thobois D, Mathieu B, Jiang JX, López-Bendito G, Greter M, Becher B, Ginhoux F, Silvín A, Klinger E, Garel S, Thion MS. Microglial colonization of the developing mouse brain is controlled by both microglial and neural CSF-1. *EMBO J*. 2025 Nov 17.

Cancila V, Bertolazzi G, Chan AS, Medico G, Bastianello G, Morello G, Paysan D, Lai C, Hong L, Shenoy G, Jaynes PW, Schiavoni G, Mattei F, Piconese S, Revuelta MV, Noto F, Businaro L, De Ninno A, Cammarata I, Pagni F, Venkatachalapathy S, Sangaletti S, Di Napoli A, Cicio G, Vacca D, Lonardi S, Lorenzi L, Ferreri AJ, Belmonte B, Liu M, Lakshmanan M, Ong MS, Zhang B, See T, Lam KP, Varano G, Colombo MP, Biciato S, Inghirami G, Cerchietti L, Ponzoni M, Zappasodi R, Metzger E, Beechem J, Facchetti F, Foiani M, Casola S, Jeyasekharan AD, Tripodo C. Aggressive B-cell lymphomas retain ATR-dependent determinants of T-cell exclusion from the Germinal Center Dark Zone. *J Clin Invest*. 2025 Jul 17:e187371.

Carrera-Bravo C, Zhou T, Chu T, Hang JW, Modh H, Huang C, Zhang S, Hao H, Cabada-García MJ, Malleret B, Wacker MG, Wang JW, Rénia L, Tan KSW. Chloroquine induces eryptosis in *P. falciparum*-infected red blood cells and the release of extracellular vesicles with a unique protein profile. *Front Cell Infect Microbiol*. 2025 May 26;15:1553123.

Cerezo-Wallis D, Rubio-Ponce A, Richter M, Pitino E, Kwok J, Marteletto G, Guano-lema-Coba AC, Shih C, Huang RK, Moraga A, Bravo NB, Doré S, Callejas S, Aragonés DG, Jiménez-Carretero D, Martín D, Ovidia S, Vicanolo T, Crainiciuc G, Sicilia J, Deng T, Martín A, Zhang J, Cuartero MI, Giraldo DM, García-Culebras A, Aroca-Crevillen A, Martín-Salamanca S, Torroja C, Ruiz M, Ruano I, Ng MSF, Hou J, Wang Y, Zhang M, Pu J, Herruzo A, van Oordt DC, Chang S, Downie AE, Chen F, Graham AL, Gause WC, Fiset PO, Spicer JD, Heyn H, Zuriaga MA, Bernal JA, Udalova IA, Moro MA, de Bock K, Dopazo A, Fuster JJ, Sánchez-Cabo F, Nieto JC, Calvo GF, Skokowa J, Soehnlein O, Quail DF, Walsh LA, Ng LG, Hidalgo A, Ballesteros I. Architecture of the neutrophil compartment. *Nature*. 2025 Dec 3.

Chaganty V, Cheng RK, Shen K, Zhang N, Doblado GJ, Ong S, Tan S, Yan Tham VY, Choi JH, Halpern ME, Chew WL, Andiappan AK, Luo SX, Wee CL. Comparative transcriptomics of lateral hypothalamic cell types reveals conserved growth hormone-tachykinin dynamics in feeding. *Mol Metab*. 2025 Sep 12:102251.

Chan FHM, Yeap HW, Liu Z, Rosli SN, Low KE, Bonne I, [Wu Y](#), [Chong SZ](#), Chen KW. Plasticity of cell death pathways ensures GSDMD activation during Yersinia pseudotuberculosis infection. [Cell Rep](#). 2025 Jan 16;44(1):115216.

Chauhan K, Datta D, Kapoor Y, Passricha N, Dutt R, Arora N, Das M, Rao K, Singh L, Gautam A, Sharma RD, Sarkar B, Yadav M, Malakar B, Kalam H, Saini P, Mehra L, Das P, Ahuja V, [Singhal A](#), Nandicoori V, Kumar D. A Mycobacterium tuberculosis secreted virulence factor Rv1435c/hsr1 disrupts host snRNP biogenesis. [Proc Natl Acad Sci U S A](#). 2025 Jul 8;122(27):e2423349122.

Chen D, Jin Z, Chu H, Wu Y, Bian Y, Yuan T, Lv H, Xia Q, Wang L, Chu Q, Liu Q, Zhou D, Fang W, Cheng X, Zha H, Long H, Zhang L, Dai J, Wan YY, [Li QJ](#), Jia Q, Liu X, Zhu B. DNASE1L3-expressing dendritic cells promote CD8+ T cell function and anti-PD-(L)1 therapy efficacy by degrading neutrophil extracellular traps. [Cancer Cell](#). 2025 Jul 30:S1535-6108(25)00320-4.

Cheng JN, Jin Z, Su C, Jiang T, Zheng X, Guo J, Li X, Chu H, Jia J, Zhou Q, Ding X, Zhang Y, Xu S, Dong F, Zhang Q, Yang X, Yang T, Cheng X, Zha H, Chen D, Wan YY, Liu X, Ye L, Tang H, Symonds ALJ, [Li QJ](#), Jia Q, Zhu B. Bone metastases diminish extraosseous response to checkpoint blockade immunotherapy through osteopontin-producing osteoclasts. [Cancer Cell](#). 2025 Apr 17:S1535-6108(25)00137-0.

Chia SY, Li M, Li Z, Tu H, Lee JWL, Qiu L, [Ling J](#), Reynolds R, Albani S, Tan EK, Ng ASL, Chen J, Zeng L. Single-nucleus transcriptomics reveals a distinct microglial state and increased MSR1-mediated phagocytosis as common features across dementia subtypes. [Genome Med](#). 2025 Aug 18;17(1):92.

Cipta NO, Zeng Y, Wong KW, Zheng ZH, Yi Y, Warriar T, Teo JZ, Teo JHJ, Kok YJ, Bi X, Taneja R, Ong DST, Xu J, [Ginhoux F](#), Li H, Liou YC, Loh YH. Rewiring of SINE-MIR enhancer topology and Esrrb modulation in expanded and naive pluripotency. [Genome Biol](#). 2025 Apr 28;26(1):107.

Corral D, Ansaldo E, Delaleu J, Pichler AC, Kabat J, Oguz C, Teijeiro A, Yong D, Abid M, Rivera CA, Link VM, [Yang K](#), Chi L, Nie J, Kamenyeva O, Fan Y, Chan JKY, [Ginhoux F](#), Bosselut R, Belkaid Y. Mammary intraepithelial lymphocytes promote lactogenesis and offspring fitness. [Cell](#). 2025 Feb 11:S0092-8674(25)00097-2.

Fan L, Tang Q, Wang Y, Sun H, Li G, Yang Y, Zhu H, Liu Z, Wang H, Wang H, Jing Q, Antos CL, Xiao H, Guan R, Pei G, [Ginhoux F](#), Zhou Z, Zeng A. Injury-induced Clusterin+ cardiomyocytes suppress inflammation and promote regeneration in neonatal and adult hearts by reprogramming macrophages. [Cell Stem Cell](#). 2025 Nov 7:S1934-5909(25)00376-5.

Fan X, Gong Y, Liu W, [Lam KP](#), [Xu S](#), Xue S, Nian R. Nanobodies in Immunoanalysis: From Molecular Engineering to Advanced Detection Strategies for Foodborne Natural Toxins. [Chemistry](#). 2025 Jul 24:e04431

Feige L, Young K, Cerapio JP, Kozaki T, Kergoat L, Libri V, [Ginhoux F](#), Hasan M, Ben Ameer L, Chin G, Goode Z, Bourhy H, Saunders A. Human brain cell types shape host-rabies virus transcriptional interactions revealing a preexisting pro-viral astrocyte subpopulation. [Cell Rep](#). 2025 Aug 25;44(9):116159.

Gasnier M, Chen TC, Yada S, Sagiraju S, Yoshikawa Y, Perna S, Lim HYG, [Lee B](#), Barker N. NOX1 and NPY1R mark regional colon stem cell populations that serve as cancer origins in vivo. [Nat Cell Biol](#). 2025 Sep 2.

Grinyo-Escuer A, Reddy S, Chenine AL, Whitbeck JC, Jacobsen S, Sheetz A, Doolan K, Norden DM, Frey N, Holtsberg FW, Aman MJ, Fink K, Diamond MS, Schieffelin JS, Crowe JE Jr, Davidson E, Doranz BJ. Identification of the seven critical residues that control ZIKV-DENV cross-reactivity to engineer a non-cross-reactive ZIKV vaccine. *Cell Rep*. 2025 Aug 1;44(8):116098.

Guan L, Feng L, Khoo ALY, Ye KX, Ho R, Ng TP, Arbi A, Kennedy BK, Koh WP, Chong YS, Maier AB. The SG90 cohort of the oldest-old in Singapore. *Eur J Epidemiol*. 2025 Jul 19.

Guttman-Yassky E, Kabashima K, Worm M, Luna PC, Hong HC, Chovatiya R, Bernstein JA, Kern JS, Ehst BD, Magnolo N, Herranz-Pinto P, Stein Gold L, Sofen H, Pink AE, Esfandiari E, Arai T, Yang Y, Shi R, Barragan C, Kricorian G, Schwartz-Sagi L, Bissonnette R. Efficacy and safety of rocatinlimab for the treatment of moderate-to-severe atopic dermatitis in ROCKET-IGNITE and ROCKET-HORIZON: two global, double-blind, placebo-controlled, randomised phase 3 clinical trials. *Lancet*. 2026 Jan 3;407(10523):53-66. doi: 10.1016/S0140-6736(25)01865-3. Epub 2025 Nov 25. Erratum in: *Lancet*. 2026 Jan 3;407(10523):30.

Hang JW, Leong YW, Narang V, Sunyakumthorn P, Im-Erbsin R, Foo S, Lum J, Lee B, Brown AE, Rénia L, Turner GDH, Wassmer SC, Lombardini ED, Russell B, Malleret B. Methylene blue treatment of fatal cerebral malaria and identification of potential blood biomarkers. *Nat Commun*. 2025 Nov 26;16(1):10534.

Harada K, Ishihara K, Wakayama S, Wakayama T, Yamamoto S, Sago H, Shimohama S, Akiba S, Ginhoux E, Takata K. Preventing Differentiation Towards Primitive Macrophages in Stem Cells With Down Syndrome. *Immunology*. 2025 Nov 27.

Ho WHJ, Lam KP. Possible Roles for Purinergic Receptor P2RX4 in Breast and Prostate Cancers. *Int J Mol Sci*. 2025 Sep 17;26(18):9043.

Hoppe R, Winter S, Lo WY, Michailidou K, Bolla MK, Keeman R, Wang Q, Dennis J, Lush M, Kalari KR, Goetz MP, Wang L, Cairns J, Weinshilboum R, Shepherd L, Chen BE, Häberle L, Ruebner M, Beckmann MW, He W, Larson NL, Armasu SM, Schroth W, Chowbay B, Khor CC, Abubakar M, Antoniou AC, Brüning T, Castelao JE, Chang-Claude J, NbcS Collaborators, Dörk T, Eccles DM, Figueroa JD, Gago-Dominguez M, García-Sáenz JA, Gündert M, Hack CC, Hamann U, Han S, Hoening MJ, Huebner H, Abctb Investigators, John EM, Ko YD, Kristensen VN, Linn S, Margolin S, Mavroudis D, Nevanlinna H, Neven P, Obi N, Park-Simon TW, Pykäs K, Rashid MU, Romero A, Saloustros E, Sawyer EJ, Tapper WJ, Tomlinson I, Wendt C, Winqvist R, Dunning AM, Simard J, Hall P, Pharoah PDP, Schwab M, Couch FJ, Czene K, Fasching PA, Easton DF, Schmidt MK, Ingle JN, Brauch H. Lessons learned from a candidate gene study investigating aromatase inhibitor treatment outcome in breast cancer. *NPJ Breast Cancer*. 2025 Feb 19;11(1):18.

Huang H, Balzer NR, Seep L, Splichalova I, Blank-Stein N, Viola MF, Franco Taveras E, Acil K, Fink D, Petrovic F, Makdissi N, Bayar S, Mauel K, Radwaniak C, Zurkovic J, Kayvanjoo AH, Wunderling K, Jessen M, Yaghmour MH, Kenner L, Ulas T, Grein S, Schultze JL, Scott CL, Williams M, Liu Z, Ginhoux E, Beyer MD, Thiele C, Meissner F, Hasenauer J, Wachten D, Mass E. Kupffer cell programming by maternal obesity triggers fatty liver disease. *Nature*. 2025 Jun 18

Jia G, He P, Dai T, Goh D, Wang J, Sun M, Wee F, Li F, Lim JCT, Hao S, Liu Y, Lim TKH, Ngo NT, Tao Q, Wang W, Umar A, Nashan B, Zhang Y, Ding C, Yeong J, Liu L, Sun C. Spatial immune scoring system predicts hepatocellular carcinoma recurrence. *Nature*. 2025 Mar 12.

Kabir TD, Beck S, Stuart LM, Li J, Hou R, Liu P, Margolius S, Kim C, Choi YS, Bastow ER, Beveridge DJ, Spalding L, Li Z, [Ginhoux F](#), Chow P, Phillips M, Redfern AD; Liver Cancer Collaborative; Yeoh GC, Forrest A, Woo AJ, Sharma A, George J, McCaughan G, Leedman PJ. Inhibition of the Caveolin-1 pathway promotes apoptosis and overcomes pan-tyrosine kinase inhibitor resistance in hepatocellular carcinoma. [Cell Death Dis](#). 2025 Jul 25;16(1):561.

Kalimuddin S, Tham CYL, Chan YFZ, Hang SK, Kunasegaran K, Chia A, Chan CYY, Ng DHL, Sim JXY, Tan HC, Syenina A, Ngoh AQ, Hamis NZ, Chew V, Leong YS, Yee JX, Low JG, Chan KR, Ong EZ, [Bertoletti A](#), Ooi EE. Vaccine-induced T cell responses control Orthoflavivirus challenge infection without neutralizing antibodies in humans. [Nat Microbiol](#). 2025 Jan 10.

Kee JX, Yau JNN, Kumar Muthuramalingam RP, Wang X, Chng WH, Lopez-Sanchez A, Tay KKW, Deng LW, Gibson D, Bertrand HC, [Adriani G](#), Ang WH, Pastorin G. Colorectal Cancer at the Crossroads: The Good, the Bad, and the Future of Platinum-Based Drugs. [Chem Rev](#). 2025 Sep 23.

Kim JS, Trzebanski S, Shin SH, Schori L, Frumer Friedman GR, Ilani NC, Kadam A, Vicario R, Aust O, Bugaeva P, Piatek S, Ismajli LK, Hoffmann CJ, Scheller M, Boura-Halfon S, Kaushansky N, Golani O, Solomon A, Liu Z, Amann L, Böhm-Sturm P, Koch SP, Wenger N; Netherlands Brain Bank; [Ginhoux F](#), Prinz M, Avraham R, Harms C, Geissmann F, Müller-Tidow C, Uderhardt S, Milenkovic I, Shlush L, Jung S. Clonal hematopoiesis-associated motoric deficits caused by monocyte-derived microglia accumulating in aging mice. [Cell Rep](#). 2025 Apr 24;44(5):115609.

Kitayama N, Nakashima C, Sawada T, Tanaka N, Hagiwara M, Otsuka A, [Kabashima K](#). Targeting PAR-2 in atopic dermatitis: Preclinical evaluation of the novel inhibitor E6795. [Biochem Biophys Res Commun](#). 2025 Sep 30;782:152590.

Kock KH, Tan LM, Han KY, Ando Y, Jevapatarakul D, Chatterjee A, Lin QXX, Buyamin EV, Sonthalia R, Rajagopalan D, Tomofuji Y, Sankaran S, Park MS, Abe M, Chantaraamporn J, Furukawa S, Ghosh S, Inoue G, Kojima M, Kouno T, Lim J, Myouzen K, Nguantad S, Oh JM, Rayan NA, Sarkar S, Suzuki A, Thungsatianpun N, Venkatesh PN, Moody J, Nakano M, Chen Z, Tian C, Zhang Y, Tong Y, [Tan CTY](#), [Tizazu AM](#), Loh M, [Hwang YY](#), Ho RC, [Larbi A](#), Ng TP, Won HH, Wright FA, Villani AC, Park JE, Choi M, Liu B, Maitra A, Pithukpakorn M, Suktitipat B, Ishigaki K, Okada Y, Yamamoto K, Carninci P, Chambers JC, Hon CC, Matangkasombut P, Charoensawan V, Majumder PP, Shin JW, Park WY, Prabhakar S. Asian diversity in human immune cells. [Cell](#). 2025 Mar 18:S0092-8674(25)00202-8.

Koh LF, Firdaus MJ, Natsuaki Y, [Hanakawa S](#), Tham KC, Lunny DP, Yap BLH, [Nakamizo S](#), Nam E, Lee JE, Toh YX, Teo NMH, Lim TC, Lane EB, [Kabashima K](#), Janela B, Common JE. Ruxolitinib Alleviates Inflammation and Fortifies Skin Barrier Function Through Dampening IL-13. [Exp Dermatol](#). 2025 Jul;34(7):e70132.

Layton E, Goldsworthy S, Yang E, Ong WY, Sutherland TE, Bancroft AJ, Thompson S, Au VB, Griffiths-Jones S, Grencis RK, [Fairhurst AM](#), Roberts IS. An optimised faecal microRNA sequencing pipeline reveals fibrosis in *Trichuris muris* infection. [Nat Commun](#). 2025 Feb 12;16(1):1589.

Lee CY, Huang CW, De Falco L Jr, [Minhat RA](#), Traversier A, [Wang B](#), Mohd Salleh SN, [Ngoh EZX](#), Huang Y, Kim J, Tay MZ, Rosa-Calatrava M, Pizzorno A, Huber RG, [Wang CI](#). A combinatorial and computational Tandem approach towards a universal therapeutics against ACE2-mediated coronavirus infections. [iScience](#). 2025 May 16;28(6):112687.

Lee K, Kim S, Zhao J, Neo SY. Targeting archetypes of viral-driven cancers with immunotherapy: a perspective on immunogenicity within the tumor microenvironment. *Front Immunol*. 2025 Aug 29;16:1631258.

Lehtonen H, Jokela H, Hofmann J, Tola L, Mehmood A, Ginhoux F, Becher B, Greter M, Yegutkin GG, Salmi M, Gerke H, Rantakari P. Early precursor-derived pituitary gland tissue-resident macrophages play a pivotal role in modulating hormonal balance. *Cell Rep*. 2025 Jan 21;44(2):115227.

Leong JY, McGovern N, Mishra A, Wasser M, Kumar P, Tay SH, Nur Hazirah S, Yeo JG, Tan XQ, Sutamam N, Azman FN, Chua CJH, Chen PZ, Ally F, Dutertre CA, Ramakrishna L, Poh SL, Xie L, Fan Y, Donner C, Papadopoulou M, Vermijlen D, Arkachaisri T, Chan JKY, Ginhoux F, Albani S. Epigenetic instability and hypofunctionality of fetal Tregs allow a permissive regulatory environment for T effector memory maturation. *Proc Natl Acad Sci U S A*. 2025 Jul 29;122(30):e2506673122.

Li C, Adamson C, Ng AWR, Liang Y, Hong Z, Loh JT, Ng SK, Kwan JMC, Feng S, Ng EWL, Nair S, Ruedl C, Wong SH, Lam KP, Qiao Y. Gut microbiota-derived GlcNAc-MurNAc is a TLR4 agonist that protects the host gut. *Nat Commun*. 2025 Jul 1;16(1):5577.

Li X, Pan L, Li W, Liu B, Xiao C, Chew V, Zhang X, Long W, Ginhoux F, Loscalzo J, Buggert M, Zhang X, Sheng R, Wang Z. Deciphering immune predictors of immunotherapy response: A multiomics approach at the pan-cancer level. *Cell Rep Med*. 2025 Feb 26:101992.

Lim HYG, Yada S, Murakami K, Lee BTK, Sagiraju S, Phuah P, Chen TC, Alvina FB, Tan SH, Kaslikar KK, Ruhazat NSB, Rajapakse MP, Murad KBA, Kancheva S, Tan LT, Mustafah S, So JBY, Barker N. AQP5: A functional gastric cancer stem cell marker in mouse and human tumors. *Science*. 2025 Dec 18;390(6779):eadr2428.

Lopez-Sanchez A, Chédotal H, Muthuramalingam RPK, Thomas M, Yau JNN, Sahoo PR, Policar C, Batteux F, Medjoubi K, Somogyi A, Adriani G, Nicco C, Coriat R, Pastorin G, Bertrand HC. A Targeted Redox-Active Dual-Action Pt(IV)-Mn(II) Prodrug Displays Enhanced In Vivo Anticancer Activity. *Adv Healthc Mater*. 2025 Jul 6:e2501847.

Ma W, Chen H, Gao F, Zhao H, Wu N, Zhang S, Zhu Y, Xu Z, Lan Y, Liu B, Ye Y, Liu Z, Ginhoux F, Su B. Embryonic mast cells arise from the Cpa3-expressing precursors but not granulocyte-monocyte progenitors. *Sci China Life Sci*. 2025 May 22.

Marcos-Kovandzic L, Avagliano M, Ben Khelil M, Srikanthan J, Abdallah R, Petrocelli V, Rengassamy J, Alfaro A, Bied M, Fidelle M, Ferrere G, Daillere R, Arbab A, Amine-Hneineh R, Pages A, Dartigues P, Ly P, Simon S, Durand S, Gottschlich A, Ginhoux F, Bleriot C, Liu P, Zhao L, Creusot L, Rolhion N, Kroemer G, Menger L, Kobold S, Castilla-Llorente C, Sokol H, Casola S, Pasolli E, Zitvogel L, Bigenwald C. Gut microbiota modulation through Akkermansia spp. supplementation increases CAR-T cell potency. *Cancer Discov*. 2025 Jun 11.

Mauvais FX, Hamel Y, Silvin A, Mulder K, Hildner K, Akyol R, Dalod M, Koumantou D, Saveanu L, Garfa M, Cagnard N, Bertocci B, Ginhoux F, van Endert P. Metallophilic marginal zone macrophages cross-prime CD8⁺ T cell-mediated protective immunity against blood-borne tumors. *Immunity*. 2025 Mar 18:S1074-7613(25)00094-9.

Mobach S, Bergkamp ND, Ma Z, Haselager MV, Anbuhl SM, Jurriens D, van den Bor J, Wang Z, Crudden C, Roos JL, Perez Almeria CV, Boergonje RA, Lohse MJ, Bosma R, Eldering E, Siderius M, Wu

W, Spaargaren M, Tonino SH, Kater AP, Smit MJ, Heukers R. Disruption of constitutive CXCR4 oligomers impairs oncogenic properties in lymphoid neoplasms. *Proc Natl Acad Sci U S A*. 2025 Jun 17;122(24):e2424186122.

Morgan D, Zhang B, Fidan K, Pan W, Vaiyapuri TS, Raju A, Hei D, See TY, Sari IN, Chan JW, Majee P, Balachander A, Yu J, Wong AH, Mok MMH, Foo SH, Tang WL, Ang N, Tan I, Peng YF, Jaynes P, Xu S, Ghosh G, Shahabi S, Jeyasekharan AD, Ikawa M, Zhang Y, Howland SW, Lau MC, Wang VY, Lam KP, Tergaonkar V. The transcription complex p52-ETS1 is essential for germinal center formation. *Nat Immunol*. 2025 Jul 25.

Mulder K, Gardet M, Kong WT, Patel AA, Calvez A, Gessain G, de la Calle-Fabregat C, Piot C, Blampey Q, Poupaud E, Anzali AA, Dunsmore G, Bougouin A, Pupier G, He L, Wiggins T, He J, Emanuel G, Goubet AG, Al-Eryani G, Swarbrick A, Michels J, Dress RJ, Deloger M, Bertoletti A, Thomas de Montpreville V, Sautès-Fridman C, Fridman WH, Zitvogel L, Ginhoux F, Dutertre CA. DC subsets and states unraveled across human juxtatumoral and malignant tissues. *Nat Immunol*. 2026 Jan;27(1):135-149. doi: 10.1038/s41590-025-02337-x. Epub 2025 Dec 8. Erratum in: Nat Immunol. 2026 Jan;27(1):167.

Murali TM, Gu Y, Minhat RA, Yap J, Wood KJ, Wang CI, Gascoigne NRJ, Anantharaman V, MacAry PA. Antigen-antibody complex density and antibody-induced HLA protein unfolding influence Fc-mediated antibody effector function. *Front Immunol*. 2024 Dec 18;15:1438285.

Nahrendorf M, Ginhoux F, Swirski FK. Immune system influence on physiology. *Science*. 2025 Aug 7;389(6760):594-599.

Nakajima S, Yonekura S, Kabashima K. Targeting OX40-OX40L pathway: A new era in atopic dermatitis management by T cell rebalancing. *J Allergy Clin Immunol*. 2025 Feb 18:S0091-6749(25)00174-5.

Nakamizo S, Kabashima K. Cutaneous Granulomas: Mechanisms, Cellular Interactions, and Therapeutic Insights. *Br J Dermatol*. 2025 Mar 13:ljaf096.

Neo SY, Shuen TWH, Khare S, Chong J, Lau M, Shirgaonkar N, Chua L, Zhao J, Lee K, Tan C, Ba R, Lim J, Chua J, Cheong HS, Chai HM, Chan CY, Chung AYF, Cheow PC, Jeyaraj PR, Teo JY, Koh YX, Chok AY, Chow PKH, Goh B, Wan WK, Leow WQ, Loh TJZ, Tang PY, Karunanithi J, Ngo NT, Lim TKH, Xu S, Dasgupta R, Toh HC, Lam KP. Atypical memory B cells acquire Breg phenotypes in hepatocellular carcinoma. *JCI Insight*. 2025 Feb 25:e187025.

Ng LG, Kwok I. Transcending life and death: The ultimate cargo of aged neutrophils. *Cell*. 2025 Mar 20;188(6):1460-1462.

Ng LG, Ballesteros I, Cassatella MA, Egeblad M, Fridlender ZG, Gabrilovich D, Gao Q, Granot Z, Grieshaber-Bouyer R, Grimes HL, Hedrick CC, Hidalgo A, Kaplan MJ, Kubes P, Ling GS, Lu L, Luo HR, Mayadas TN, Moutsopoulos NM, Ng M, Nigrovic PA, Ostuni R, Pittet MJ, Quail DF, Silvestre-Roig C, Soehnlein O, Udalova IA, Xue R, Zhang N, Kwok I. From complexity to consensus: A roadmap for neutrophil classification. *Immunity*. 2025 Aug 12;58(8):1890-1903.

Ng M, Cerezo-Wallis D, Ng LG, Hidalgo A. Adaptations of neutrophils in cancer. *Immunity*. 2025 Jan 14;58(1):40-58.

Nguyen RH, Newton M, Kratofil RM, Scott BNV, Castanheira F, Kim JS, [Ginhoux F](#), Jung S, Kubes P. Imaging a concussion and the ensuing immune response at the blood-brain barrier. *Proc Natl Acad Sci U S A*. 2025 May 27;122(21):e2414316122.

Ong CJ, Zhao JJ, Liu Y, Srivastava S, Chia DKA, Quek YE, Fan X, Ma H, Huang KK, Sheng T, Tan QX, Ng G, Tan JWS, Lee JJ, Loo LH, Chong LY, Ong XW, Tay ST, Hagihara T, Tan A, [Joseph CRC](#), Teo MCC, Hendrikson J, Chong CYL, Guo W, Chia CS, Wong JSM, Seo CJ, Cai M, Tay Y, Sim KMS, Tay RYK, Walsh R, Guaglio M, Morano F, Teh M, Lum HYJ, Lim TKH, Vermeulen L, Bijlsma MF, Lenos K, Klempner SJ, [Yeong JPS](#), Yong WP, Pietrantonio F, Tan P, Sundar R. Spatial Heterogeneity, Stromal Phenotypes, and Therapeutic Vulnerabilities in Colorectal Cancer Peritoneal Metastasis. *Clin Cancer Res*. 2025 Jun 13;31(12):2515-2529.

Qin D, Lei Y, Shu P, Zhang Y, Loh YH, Wang Y, [Li Q](#). Supercharging CAR-T cells through transcriptional and epigenetic armoring. *Theranostics*. 2025 Feb 18;15(8):3345-3367.

[Quek YJ](#), Kumar ARK, [Adriani G](#), Tay A. Nanostraw Electroporation for Temporal RNA Sampling from Living 2D and 3D Cell Culture Systems. *ACS Nano*. 2025 Oct 21.

Rojas-Carabali W, Cifuentes-González C, Utami A, Agarwal M, Kempen JH, Tsui E, Finger RP, Sen A, Chan A, Schlaen A, Gupta V, de-la-Torre A, [Lee B](#), Agrawal R; PROTON Study Group. Machine Learning for Predicting Recurrent Course in Uveitis Using Baseline Clinical Characteristics. *Invest Ophthalmol Vis Sci*. 2025 Aug 1;66(11):67.

Sen TK, Jing L, [Anand A](#), Zhang Ryan LZ, Ting HT, Hui OH, Douglas T, Qin AZ, Bowen Y, Mohd FA, Thinesswary Y, Pei Carmen LC, Jang Hann CJ, Vincent T C, Mookhan P, De-Yun W. Unique Immune and Other Responses of Human Nasal Epithelial Cells Infected with H5N1 Avian Influenza Virus Compared to Seasonal Human Influenza A and B Viruses. *Emerg Microbes Infect*. 2025 Mar 24:2484330.

Serhan N, Abdullah NS, Gheziel N, Loste A, Ekren R, Labit E, Gonzalez AA, Oliva G, Tarot P, Petitfils C, Payros G, D'Avino P, Voisin A, Tinsley HFG, Gentek R, Brosseau C, Bodinier M, Reber L, Val P, Akdis CA, Mitamura Y, [Andiappan AK](#), Chan JKY, [Ginhoux F](#), François A, Cénac N, Basso L, Gaudenzio N. Maternal stress triggers early-life eczema through fetal mast cell programming. *Nature*. 2025 Aug 27.

Shao Y, Gao Q, Wang L, Li D, Nixon AB, Chan C, [Li QJ](#), Xie J. B-Lightning: using bait genes for marker gene hunting in single-cell data with complex heterogeneity. *Brief Bioinform*. 2024 Nov 22;26(1):bbaf033.

Sharma A, Gupta M, George J, [Ginhoux F](#). Oncofetal reprogramming of malignant seeds and their ecosystem: Implications in clinical research. *Cancer Cell*. 2025 Dec 11:S1535-6108(25)00503-3.

Shen TK, Vignane T, Gilgioni EH, Traini L, [Kalaitidou E](#), Conan P, Li A, St-Pierre-Wijckmans W, Herranz JM, Elvira B, Otero Sanchez L, Trépo E, Deelman L, [Wu W](#), Filipovic MR, Messens J, Ezerina D, Gurzov EN. Metabolic dysfunction-associated steatohepatitis reduces hepatic H2S-producing enzymes altering persulfidome composition. *Redox Biol*. 2025 Aug 5;86:103809.

[Shenoy MK](#), Rico DM, Lorant AK, Touré H, Gordon S, Milburn LJ, Schwensen JS, Cabán ME, Koch MA. Breast milk IgG engages the mouse neonatal immune system to instruct responses to gut antigens. *Science*. 2025 Aug 14;389(6761):eado5294.

Strijker JGM, Pascual-Pasto G, Grothusen GP, Kalmeijer YJ, [Kalaitidou E](#), Zhao C, McIntyre B, Matlaga S, Visser LL, Barisa M, Himsworth C, Shah R, Muller H, Schild LG, Hains PG, Zhong Q, Reddel RR, Robinson PJ, Catena X, Soengas MS, Margaritis T, Dekker FJ, Anderson J, Molenaar JJ, Bosse KR, [Wu W](#), Wienke J. Blocking MIF secretion enhances CAR T-cell efficacy against neuroblastoma. [Eur J Cancer](#). 2025 Jan 27;218:115263.

Sun Y, Rodgers Furones A, Gultekin O, Khare S, [Neo SY](#), Shi W, Moyano-Galceran L, [Lam KP](#), Dasgupta R, Fuxe J, Salehi S, Lehti K, Sarhan D. Adaptive NK Cells Exhibit Tumor-Specific Immune Memory and Cytotoxicity in Ovarian Cancer. [Cancer Immunol Res](#). 2025 Apr 28.

Takase K, Komatsu-Fujii T, Nakajima S, Kogame T, [Kabashima K](#). Sorafenib-Induced Montgomery Gland Hyperplasia-Like Eruption With Keratin Plug Formation. [J Dermatol](#). 2025 Aug 23.

Takechi T, Shimizu J, [Kabashima K](#), Ieiri I. Quantitative Evaluation of Nemolizumab Pharmacokinetics and Efficacy in Prurigo Nodularis: A Population Pharmacokinetics and Model-Based Meta-analysis Approach. [Dermatol Ther](#) (Heidelb). 2025 Sep 29.

Talele NP, Kumra H, Gomes-Santos IL, [Ho WW](#), Andersson P, Siwicki M, Huang P, Duda DG, Pittet MJ, Fukumura D, Jain RK. IL-1 β blockade prevents cardiotoxicity and improves the efficacy of immune checkpoint blockers and chemotherapy against pancreatic cancer in mice with obesity. [J Immunother Cancer](#). 2025 May 24;13(5):e011404.

Tay RE, Ho CM, Ang NDZ, Tay HC, Lopez DZ, Na QR, Tan YW, [Koh SM](#), Tan KP, Lee W, Lim J, Lau M, Toh HC, [Rotzschke O](#), Rénia L. Serotonin receptor 5-HT2A as a potential target for HCC immunotherapy. [J Immunother Cancer](#). 2025 Jun 23;13(6):e011088.

Teng O, Quek AML, Ooi DSQ, Wang S, Fragata L, Ng IXQ, Cui J, [Chen J](#), Hartman M, Hutchinson PE, Tambyah PA, Seet RCS. High CD4⁺ T-cell Responses in Seronegative Individuals Following SARS-CoV-2 Exposure during a Dormitory Outbreak. [Int J Infect Dis](#). 2025 Aug 20:108024.

Tiberi G, Scagliotti A, Curcio C, Candiello E, Villegas PAD, Brugiapaglia S, Mucciolo G, Roux C, Castellano G, Curto R, Arigoni M, Calogero RA, Barutello G, Bolli N, Papotti MG, [Adriani G](#), Novelli F, Cappello P. The absence of IL17A favours cytotoxic cell function and improves antigen-specific immunotherapies in pancreatic adenocarcinoma. [Clin Transl Med](#). 2025 Aug;15(8):e70442.

Tong L, Kremer V, [Neo SY](#), Seitz C, Tobin NP, Seliger B, Harmenberg U, Colón E, Scherman Plogell AH, Liu LL, Lundqvist A. Cellular and secretome profiling uncover immunological biomarkers in the prognosis of renal cell carcinoma patients. [Oncoimmunology](#). 2025 Dec;14(1):2481109.

Tong L, Tay AHM, Cui W, Liu Y, Su Y, Lyu J, Hoedemakers L, Yang Y, Ehnman M, Seliger B, Nordlund P, Haglund de Flon F, [Neo SY](#), Lundqvist A. VHL restoration in clear cell renal cell carcinoma improves NK cell infiltration and function. [Cancer Immunol Immunother](#). 2025 Jul 30;74(9):278.

Vasudevan J, Vijayakumar R, Reales-Calderon JA, Lam MSY, Ow JR, Aw J, Tan D, Tan AT, Bertoletti A, [Adriani G](#), Pavesi A. In vitro integration of a functional vasculature to model endothelial regulation of chemotherapy and T-cell immunotherapy in liver cancer. [Biomaterials](#). 2025 Feb 9;320:123175.

Verwaerde S, Hastir JF, Schetters STT, Smole U, Seys L, Baptista AP, English K, Schuijs MJ, Aegerter H, Van Damme KFA, Bugler-Lamb A, Gerebtsov N, Toussaint W, Ban T, Tamura T, [Ginhoux F](#), Liu Z, Saelens W, Hammad H, Williams M, Lambrecht BN. Innate type 2 lymphocytes trigger an inflammatory switch in alveolar macrophages. [Immunity](#). 2025 Dec 11:S1074-7613(25)00517-5.

Vicanolo T, Özcan A, Li JL, Huerta-López C, Ballesteros I, Rubio-Ponce A, Dumitru AC, Nicolás-Ávila JÁ, Molina-Moreno M, Reyes-Gutierrez P, Johnston AD, Martone C, Greto E, Quílez-Alvarez A, Calvo E, Bonzon-Kulichenko E, Álvarez-Velez R, Chooi MY, Kwok I, González-Bermúdez B, Malleret B, Espinosa FM, Zhang M, Wang YL, Sun D, Zhen Chong S, El-Armouche A, Kim KK, Udaloa IA, Greco V, García R, Vázquez J, Dopazo A, Plaza GR, Alegre-Cebollada J, Uderhardt S, Ng LG, Hidalgo A. Matrix-producing neutrophils populate and shield the skin. *Nature*. 2025 Mar 19.

Wang CQ, Leong L, Yang L, Xu S, Lam KP, Choo AB, Tan AH. Nucleofection-based screening of chimeric antigen receptor candidates in human natural killer cells. *Front Immunol*. 2025 Apr 3;16:1557766. doi: 10.3389/fimmu.2025.1557766.

Wang J, Ruan GX, Li Y, Xiao X, Zhu Z, Chen W, Huang H, Zhang R, Wang R, Chen M, Guo L, Li Y, Xu S, Ou X. Minor Splicing Factor RNPC3 Is Essential for the Germinal Center B Cell Response. *Eur J Immunol*. 2025 Apr;55(4):e202451508.

Wee S, de Beer A, Koh HW, Ong J, Low JH, Lim YT, Wang SM, Sobota RM, Goleva E, Leung DYM, Chiang WC, Chua MC, Andiappan AK. Atopic dermatitis in children: Untargeted proteomics highlights the interaction between barrier dysfunction and immune dysregulation as key pathways. *Pediatr Allergy Immunol*. 2025 Jul;36(7):e70142.

Wong WJ, Zhu YW, Wang HT, Qian JW, Li Z, Li S, Liu ZY, Guo W, Zhang SY, Su B, He FP, Wang K, Ginhoux F. Modeling hereditary diffuse leukoencephalopathy with axonal spheroids using microglia-sufficient brain organoids. *Elife*. 2025 May 21;13:RP96693.

Yee TM, Wang LW. Metabolic Reprogramming in Epstein-Barr Virus Associated Diseases. *J Med Virol*. 2025 Feb;97(2):e70197.

Yee JY, Phua SX, See YM, Andiappan AK, Goh WWB, Lee J. Predicting antipsychotic responsiveness using a machine learning classifier trained on plasma levels of inflammatory markers in schizophrenia. *Transl Psychiatry*. 2025 Feb 14;15(1):51.

Yu X, Hu Y, Lim HY, Li Z, Jaitin DA, Yang K, Kong WT, Xu J, Bejarano DA, Bied M, Orliaguet L, Rengasamy G, Chow Z, Lee CZW, Lum J, Tian J, Zhang XM, Liu H, Tan SW, Chen J, See P, Loh YH, Malleret B, Baig S, Yassin MSM, Toh SES, Malissen B, Fu X, Kabashima K, Ng LG, Blériot C, Liu Z, Sheng L, Zheng DN, Qu J, Venter N, Su B, Amit I, Schlitzer A, Angeli V, Ginhoux F, Chakarov S. Septal LYVE1+ macrophages control adipocyte stem cell adipogenic potential. *Science*. 2025 Aug 28;389(6763):eadg1128.

Zhang Z, Niu K, Huang T, Guo J, Xarbat G, Gong X, Gao Y, Liu F, Cheng S, Su W, Yang F, Liu Z, Ginhoux F, Zhang T. Microglia depletion reduces neurodegeneration and remodels extracellular matrix in a mouse Parkinson's disease model triggered by α -synuclein overexpression. *NPJ Parkinsons Dis*. 2025 Jan 9;11(1):15.

Zhu Y, Cai P, Li Z, Zhang S, Kong WT, Wang H, Gao F, Zeng Y, Qian J, Su B, Liu Z, Ginhoux F. Transcription factors TCF4 and KLF4 respectively control the development of the DC2A and DC2B lineages. *Nat Immunol*. 2025 Jul 23.