

## **2025 SigN Publications (with impact factor >4)**

*Last updated: 31 March 2025*

### [Impact factor of immunology journals \(JCR 2023\)](#)

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.

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.

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, Hooning 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, Pylkäs 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.

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.

Kalimuddin S, Tham CYL, Chan YFZ, Hang SK, Kunasegaran K, Chia A, Chan CYY, Ng DHL, Sim JXY, Tan HC, Syenina A, Ngho 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.

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.

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.

Lehtonen H, Jokela H, Hofmann J, Tola L, Mehmood A, [Ginhoux E](#), 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.

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.

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 E](#), van Endert P. Metallophilic marginal zone macrophages cross-prime CD8<sup>+</sup> T cell-mediated protective immunity against blood-borne tumors. *Immunity*. 2025 Mar 18:S1074-7613(25)00094-9.

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

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.

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.

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.

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.

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.

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.

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.

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.

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 E, Zhang T. Microglia depletion reduces neurodegeneration and remodels extracellular matrix in a mouse Parkinson's disease model triggered by  $\alpha$ -synuclein overexpression. *NPJ Parkinsons Dis*. 2025 Jan 9;11(1):15.