

SIgN affiliated publications by Lau Mai Chan

Last updated: 30 July 2025

2025

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.

[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.

[Lau MC](#), Borowsky J, Väyrynen JP, Haruki K, Zhao M, Dias Costa A, Gu S, da Silva A, Ugai T, Arima K, Nguyen MN, Takashima Y, Yeong J, Tai D, Hamada T, Lennerz JK, Fuchs CS, Wu CJ, Meyerhardt JA, Ogino S, Nowak JA. Tumor-immune partitioning and clustering algorithm for identifying tumor-immune cell spatial interaction signatures within the tumor microenvironment. [PLoS Comput Biol](#). 2025 Feb 18;21(2):e1012707.

2024

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.

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.

Elomaa H, Härkönen 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.

2023

Hong JH, Yong CH, Heng HL, Chan JY, Lau MC, Chen J, Lee JY, Lim AH, Li Z, Guan P, Chu PL, Boot A, Ng SR, Yao X, Wee FYT, Lim JCT, Liu W, Wang P, Xiao R, Zeng X, Sun Y, Koh J, Kwek XY, Ng CCY, Klanrit P, Zhang Y, Lai J, Tai DWM, Pairojkul C, Dima S, Popescu I, Hsieh SY, Yu MC, Yeong J, Kongpetch S, Jusakul A, Loilome W, Tan P, Tan J, Teh BT. Integrative multiomics enhancer activity profiling identifies therapeutic vulnerabilities in cholangiocarcinoma of different etiologies. [Gut](#). 2023 Nov 24:gutjnl-2023-330483.

Kaya NA, Tai D, Lim X, Lim JQ, Lau MC, Goh D, Phua CZJ, Wee FYT, Joseph CR, Lim JCT, Neo ZW, Ye J, Cheung L, Lee J, Loke KSH, Gogna A, Yao F, Lee MY, Shuen TWH, Toh HC, Hilmer A, Chan YS, Lim TK, Tam WL, Choo SP, Yeong J, Zhai W. Multimodal molecular landscape of response to Y90-resin

microsphere radioembolization followed by nivolumab for advanced hepatocellular carcinoma. *J Immunother Cancer*. 2023 Aug;11(8):e007106.

Lee RY, Wu Y, Goh D, Tan V, Ng CW, Lim JCT, Lau MC, Yeong JPS. Application of Artificial Intelligence to In Vitro Tumor Modeling and Characterization of the Tumor Microenvironment. *Adv Healthc Mater*. 2023 Apr 15:e2202457.

Lee RY, Ng CW, Rajapakse MP, Ang N, Yeong JPS, Lau MC. The promise and challenge of spatial omics in dissecting tumour microenvironment and the role of AI. *Front Oncol*. 2023 May 1;13:1172314.

2021

Rouers A, Appanna R, Chevrier M, Lum J, Lau MC, Tan L, Tay A, Sathiakumar D, Kaur K, Boehme J, Leo YS, Howland SW, Singhal A, Chen J, Fink K. CD27hiCD38hi plasmablasts are activated B cells of mixed origin with distinct function. *iScience*. 2021;24(5):102482.

Penny HL, Sieow JL, Gun SY, Lau MC, Lee B, Tan J, Phua C, Toh F, Nga Y, Yeap WH, Janela B, Kumar D, Chen H, Yeong J, Kenkel JA, Pang A, Lim D, Toh HC, Hon TLK, Johnson CI, Khameneh HJ, Mortellaro A, Engleman EG, Rotzschke O, Ginhoux F, Abastado JP, Chen J, Wong SC. Targeting Glycolysis in Macrophages Confers Protection Against Pancreatic Ductal Adenocarcinoma. *Int J Mol Sci*. 2021;22(12):6350.

2020

Kared H, Tan SW, Lau MC, Chevrier M, Tan C, How W, Wong G, Strickland M, Malleret B, Amoah A, Pilipow K, Zanon V, Govern NM, Lum J, Chen JM, Lee B, Florian MC, Geiger H, Ginhoux F, Ruiz-Mateos E, Fulop T, Rajasuriar R, Kamarulzaman A, Ng TP, Lugli E, Larbi A. Immunological history governs human stem cell memory CD4 heterogeneity via the Wnt signaling pathway. *Nat Commun*. 2020;11(1):821.

2019

Janela B, Patel AA, Lau MC, Goh CC, Msallam R, Kong WT, Fehlings M, Hubert S, Lum J, Simon Y, Malleret B, Zolezzi F, Chen J, Poidinger M, Satpathy AT, Briseno C, Wohn C, Malissen B, Murphy KM, Maini AA, Vanhoutte L, Williams M, Vial E, Hannequin L, Newell E, Ng LG, Musette P, Yona S, Rachinel FH, Ginhoux F. A subset of type I conventional dendritic cells controls cutaneous bacterial infections through VEGFa-mediated recruitment of neutrophils. *Immunity*. 2019;50:1069-1084;e8.

2016

Chen H, Lau MC, Wong MT, Newell EW, Poidinger M, Chen JM. Cytokit: A bioconductor package for an integrated mass cytometry data analysis pipeline. *PLoS Comput Biol*. 2016;12(9):e1005112.