

SIgN affiliated publications by Shengli XU

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.

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

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.

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.

Zhang M, Loh HP, Goh Fang S, Yang Y, Lam KP, Xu S. Development of BCMA-Targeted Bispecific Natural Killer Cell Engagers for Multiple Myeloma Treatment. *Antibodies (Basel)*. 2024 Nov 29;13(4):97.

2024

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.

2023

Zhang R, Wang D, Ruan GX, Wang R, Li Y, Chen W, Huang H, Wang J, Meng L, Zhu Z, Lei D, Xu S, Ou X. Spliceosome component PHD finger 5A is essential for the early B lymphopoiesis. *Development*. 2023 Dec 14;dev.202247.

Tan CW, Zhu F, Chia WN, Young BE, Yan Yeoh AY, Althaus T, Yung CF, Yap WC, Lee Lim B, I-C Chen M, Zhang J, Mah YY, Voiglio E, Sigal A, Huo J, Xu S, Tan YJ, Lam K-P, Lye D, Wang L-F, Distinctive serotypes of SARS-related coronaviruses defined by convalescent sera from unvaccinated individuals, *hLife*. 2023;XXX;1–9.

Zhang M, Lam KP, Xu S. Natural Killer Cell Engagers (NKCEs): a new frontier in cancer immunotherapy. *Front Immunol*. 2023 Aug 9;14:1207276.

Loh HP, Mahfut FB, Chen SW, Huang Y, Huo J, Zhang W, Lam KP, Xu S, Yang Y. Manufacturability and functionality assessment of different formats of T-cell engaging bispecific antibodies. *MAbs*. 2023 Jan-Dec;15(1):2231129.

Huang H, Li Y, Zhang G, Ruan GX, Zhu Z, Chen W, Zou J, Zhang R, Wang J, Ouyang Y, Xu S, Ou X. The RNA-binding protein hnRNP F is required for the germinal center B cell response. *Nat Commun*. 2023 Mar 30;14(1):1731.

Li Y, Ruan GX, Chen W, Huang H, Zhang R, Wang J, Ouyang Y, Zhu Z, Meng L, Wang R, Huo J, Xu S, Ou X. The histone H2B ubiquitination regulator Wac is essential for plasma cell differentiation. *FEBS Lett*. 2023 May 12.

Tan I, Xu S, Huo J, Huang Y, Lim HH, Lam KP. *J Biol Chem*. 2023 Jun 9:104906.

2022

Chen W, Li Y, Ruan GX, Huang H, Zhang R, Wang J, Ouyang Y, Li Y, Xu S, Ou X. Adenosine deaminase acting on RNA-1 is essential for early B lymphopoiesis. *Cell Rep*. 2022 Nov 22;41(8):111687.

Lau CS, Thundiyil J, Oh MLH, Phua SK, Liang YL, Li Y, Huo J, Huang Y, Zhang B, Xu S, Aw TC. Neutralizing and Total/IgG Spike Antibody Responses Following Homologous CoronaVac vs. BNT162b2 Vaccination Up to 90 Days Post-Booster. *Antibodies (Basel)*. 2022 Nov 8;11(4):70.

Li Y, Ruan GX, Chen W, Huang H, Zhang R, Wang J, Li Y, Xu S, Ou X. RNA-Editing Enzyme ADAR1 p150 Isoform Is Critical for Germinal Center B Cell Response. *J Immunol*. 2022 Aug 17;ji2200149.

Liew MF, Lim HF, Liang MC, Lim I, Tan Z, Tan RYM, Sam QH, Soe WM, Tay SH, Xu S, Chang MW, Foo R, Soong TW, Ravikumar S, Chai LYA. Dominant Negative TRAF3 Variant With Recurrent Mycobacterium abscessus Infection and Bronchiectasis. *Open Forum Infect Dis*. 2022 Aug 3;9(8):ofac379

Huo J, Huang Y, Zheng Z, Tay XN, Mahfut FB, Zhang W, Lam KP, Yang Y, Xu S. Development of a T cell-redirecting bispecific antibody targeting B-cell maturation antigen for the suppression of multiple myeloma cell growth. *Antib Ther*. 2022 Jun 9;5(2):138-149.

Lau CS, Oh MLH, Phua SK, Liang YL, Li Y, Huo J, Huang Y, Zhang B, Xu S, Aw TC. Kinetics of the Neutralizing and Spike SARS-CoV-2 Antibodies following the Sinovac Inactivated Virus Vaccine Compared to the Pfizer mRNA Vaccine in Singapore. *Antibodies (Basel)*. 2022 May 27;11(2):38.

Huang H, Zhang G, Ruan GX, Li Y, Chen W, Zou J, Zhang R, Wang J, Ji SJ, Xu S, Ou X. Mettl14-Mediated m6A Modification Is Essential for Germinal Center B Cell Response. *J Immunol*. 2022 Apr 15;208(8):1924-1936.

Ruan GX, Li Y, Chen W, Huang H, Zhang R, Chen C, Lam KP, Xu S, Ou X. The spliceosome component Usp39 controls B cell development by regulating immunoglobulin gene rearrangement. *Cell Rep*. 2022 Feb 8;38(6):110338.

Zhang B, Huo J, Huang Y, Teo SY, Duan K, Li Y, Toh LK, Lam KP, Xu S. mRNA Booster Vaccination Enhances Antibody Responses against SARS-CoV2 Omicron Variant in Individuals Primed with mRNA or Inactivated Virus Vaccines. [Vaccines](#). 2022; 10(7):1057.

2021

Hang L, Wang Z, Foo ASC, Goh GWY, Choong HC, Thundyil J, Xu S, Lam KP, Lim KL. Conditional disruption of AMP kinase in dopaminergic neurons promotes Parkinson's disease-associated phenotypes in vivo. [Neurobiol Dis](#). 2021 Dec;161:105560.

Sirés A, Turch-Anguera M, Bogdanov P, Sampedro J, Ramos H, Ruíz Lasa A, Huo J, Xu S, Lam KP, López-Soriano J, Pérez-García MJ, Hernández C, Simó R, Solé M, Comella JX. Faim knockout leads to gliosis and late-onset neurodegeneration of photoreceptors in the mouse retina. [J Neurosci Res](#). 2021 Oct 28. [Epub ahead of print]

Kumar V, Ramnarayanan K, Sundar R, Padmanbhan N, Srivastava S, Koiwa M, Yasuda T, Koh V, Huang KK, Tay ST, Ho SWT, Tan ALK, Ishimoto T, Kim G, Shabbir A, Chen Q, Biyan Z, Xu S, Lam KP, Lum HYJ, Teh M, Yong WP, So JB, Tan P. Single-cell atlas of lineage states, tumor microenvironment and subtype-specific expression programs in gastric cancer. [Cancer Discov](#). 2021 Oct 12:candisc.0683.2021.

Guan D, Wang Z, Huo J, Xu S, Lam KP. Bruton's tyrosine kinase regulates gut immune homeostasis through attenuating Th1 response. [Cell Death Dis](#). 2021 Apr 30;12(5):431.

Wang Z, Guan D, Huo J, Biswas SK, Huang Y, Yang Y, Xu S, Lam KP. IL-10 Enhances Human Natural Killer Cell Effector Functions via Metabolic Reprogramming Regulated by mTORC1 Signaling. [Front Immunol](#). 2021 Feb 23;12:619195.