

## **SIgN affiliated publications by Shengli XU**

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### **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, Thundyil 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, Thundiyil 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.