

A/Prof Tan Yee Joo's Recent Publications (*sole corresponding author)

Ng KT, Mohd-Ismail NK, **Tan YJ***. Spike S2 Subunit: The Dark Horse in the Race for Prophylactic and Therapeutic Interventions against SARS-CoV-2. *Vaccines (Basel)*. 2021 Feb 20;9(2):178. doi: 10.3390/vaccines9020178. PMID: 33672450; PMCID: PMC7923282.

Le Bert N, Clapham HE, Tan AT, Chia WN, Tham CYL, Lim JM, Kunasegaran K, Tan LWL, Dutertre CA, Shankar N, Lim JME, Sun LJ, Zahari M, Tun ZM, Kumar V, Lim BL, Lim SH, Chia A, **Tan YJ**, Tambyah PA, Kalimuddin S, Lye D, Low JGH, Wang LF, Wan WY, Hsu LY, Bertolotti A, Tam CC. Highly functional virus-specific cellular immune response in asymptomatic SARS-CoV-2 infection. *J Exp Med*. 2021 May 3;218(5):e20202617. doi: 10.1084/jem.20202617. PMID: 33646265; PMCID: PMC7927662.

Stebbing J, Sánchez Nievas G, Falcone M, Youhanna S, Richardson P, Ottaviani S, Shen JX, Sommerauer C, Tiseo G, Ghiadoni L, Viridis A, Monzani F, Rizos LR, Forfori F, Avendaño Céspedes A, De Marco S, Carrozzi L, Lena F, Sánchez-Jurado PM, Lacerenza LG, Cesira N, Caldevilla Bernardo D, Perrella A, Niccoli L, Méndez LS, Matarrese D, Goletti D, **Tan YJ**, Monteil V, Dranitsaris G, Cantini F, Farcomeni A, Dutta S, Burley SK, Zhang H, Pistello M, Li W, Romero MM, Andrés Pretel F, Simón-Talero RS, García-Molina R, Kutter C, Felce JH, Nizami ZF, Miklosi AG, Penninger JM, Menichetti F, Mirazimi A, Abizanda P, Lauschke VM. JAK inhibition reduces SARS-CoV-2 liver infectivity and modulates inflammatory responses to reduce morbidity and mortality. *Sci Adv*. 2021 Jan 1;7(1):eabe4724. doi: 10.1126/sciadv.abe4724. PMID: 33187978; PMCID: PMC7775747.

Zheng Z, Teo SHC, Arularasu SC, Liu Z, Mohd-Ismail NK, Mok CK, Ong CB, Chu JJ, **Tan YJ***. Contribution of Fc-dependent cell-mediated activity of a vestigial esterase-targeting antibody against H5N6 virus infection. *Emerg Microbes Infect*. 2020 Dec;9(1):95-110

Zheng Z, Monteil VM, Maurer-Stroh S, Yew CW, Leong C, Mohd-Ismail NK, Cheyyatraivendran Arularasu S, Chow VTK, Lin RTP, Mirazimi A, Hong W, **Tan YJ***. Monoclonal antibodies for the S2 subunit of spike of SARS-CoV cross-react with the newly-emerged SARS-CoV-2. *Euro Surveill*. 2020 Jul;25(28).

Le Bert N, Tan AT, Kunasegaran K, Tham CYL, Hafezi M, Chia A, Chng MHY, Lin M, Tan N, Linster M, Chia WN, Chen MI, Wang LF, Ooi EE, Kalimuddin S, Tambyah PA, Low JG, **Tan YJ**, Bertolotti A. SARS-CoV-2-specific T cell immunity in cases of COVID-19 and SARS, and uninfected controls. *Nature*. 2020 Aug;584(7821):457-462. doi: 10.1038/s41586-020-2550-z. Epub 2020 Jul 15. PMID: 32668444.

Tan CW, Chia WN, Qin X, Liu P, Chen MI, Tiu C, Hu Z, Chen VC, Young BE, Sia WR, **Tan YJ**, Foo R, Yi Y, Lye DC, Anderson DE, Wang LF. A SARS-CoV-2 surrogate virus neutralization test based on antibody-mediated blockage of ACE2-spike protein-protein interaction. *Nat Biotechnol*. 2020 Sep;38(9):1073-1078. doi: 10.1038/s41587-020-0631-z. Epub 2020 Jul 23. PMID: 32704169.

Anderson DE, Tan CW, Chia WN, Young BE, Linster M, Low JH, **Tan YJ**, Chen MI, Smith GJD, Leo YS, Lye DC, Wang LF. Lack of cross-neutralization by SARS patient sera towards SARS-CoV-2. *Emerg Microbes Infect*. 2020 Dec;9(1):900-902. doi: 10.1080/22221751.2020.1761267. PMID: 32380903; PMCID: PMC7241448.

Chia WN, Tan CW, Foo R, Kang AEZ, Peng Y, Sivalingam V, Tiu C, Ong XM, Zhu F, Young BE, Chen MI, **Tan YJ**, Lye DC, Anderson DE, Wang LF. Serological differentiation between COVID-19 and SARS infections. *Emerg Microbes Infect*. 2020 Dec;9(1):1497-1505.

Wang Y, Lv Y, Niu X, Dong J, Feng P, Li Q, Xu W, Li J, Li C, Li J, Luo J, Li Z, Liu Y, **Tan YJ**, Pan W, Chen L. L226Q Mutation on Influenza H7N9 Virus Hemagglutinin Increases Receptor-Binding Avidity and Leads to Biased Antigenicity Evaluation. *J Virol*. 2020 Sep 29;94(20):e00667-20. doi: 10.1128/JVI.00667-20. PMID: 32796071; PMCID: PMC7527056.

Stebbing J, Krishnan V, de Bono S, Ottaviani S, Casalini G, Richardson PJ, Monteil V, Lauschke VM, Mirazimi A, Youhanna S, **Tan YJ**, Baldanti F, Sarasini A, Terres JAR, Nickoloff BJ, Higgs RE, Rocha G, Byers NL, Schlichting DE, Nirula A, Cardoso A, Corbellino M; Sacco Baricitinib Study Group. Mechanism of baricitinib supports artificial intelligence-predicted testing in COVID-19 patients. *EMBO Mol Med*. 2020 May 30:e12697.

Niu X, Yan Q, Yao Z, Zhang F, Qu L, Wang C, Wang C, Lei H, Chen C, Liang R, Luo J, Wang Q, Zhao L, Zhang Y, Luo K, Wang L, Wu H, Liu T, Li P, Zheng Z, **Tan YJ**, Feng L, Zhang Z, Han J, Zhang F, Chen L. Longitudinal analysis of the antibody repertoire of a Zika **virus**-infected patient revealed dynamic changes in antibody response. *Emerg Microbes Infect*. 2020 Jan 6;9(1):111-123.

Mohd-Ismail NK, Lim Z, Gunaratne J, **Tan YJ***. Mapping the Interactions of HBV cccDNA with Host Factors. *Int J Mol Sci*. 2019 Sep 1;20(17). pii: E4276.

Xu Y, Victorio CBL, Meng T, Jia Q, **Tan YJ**[#], Chua KB[#]. The Saffold Virus-Penang 2B and 3C Proteins, but not the L Protein, Induce Apoptosis in HEp-2 and Vero Cells. *Virologica Sinica*. 2019 Jun;34(3):262-269. doi: 10.1007/s12250-019-00116-1. [IF: 2.5] ([#]co-corresponding authors).

Zhang F, Wang L, Niu X, Li J, Luo J, Feng Y, Yang Y, He P, Fan W, Liang R, Zheng Z, Pan W, Li C, **Tan YJ**, Yu H, Chen L, Li P. Phenotypic Characterization of Chinese Rhesus Macaque Plasmablasts for Cloning Antigen-Specific Monoclonal Antibodies. *Front Immunol*. 2019 Oct 11;10:2426. doi: 10.3389/fimmu.2019.02426. PMID: 31681312; PMCID: PMC6798180.

Aboagye JO, Yew CW, Ng OW, Monteil VM, Mirazimi A, **Tan YJ***. Overexpression of the nucleocapsid protein of Middle East respiratory syndrome coronavirus up-regulates CXCL10. *Bioscience Reports* 2018 Oct 17;38(5):BSR20181059

Franz KM, Neidermyer WJ, **Tan YJ**, Whelan SPJ, Kagan JC. STING-dependent translation inhibition restricts RNA virus replication. *Proc Natl Acad Sci U S A*. 2018 Feb 27;115(9):E2058-E2067.

Zheng Z, Paul SS, Mo X, Yuan YA, **Tan YJ***. The Vestigial Esterase Domain of Haemagglutinin of H5N1 Avian Influenza A Virus: Antigenicity and Contribution to Viral Pathogenesis. *Vaccines (Basel)*. 2018 Aug 10;6(3). pii: E53.

Paul SS, Mok CK, Mak TM, Ng OW, Aboagye JO, Wohlbold TJ, Krammer F, **Tan YJ***. A cross-clade H5N1 influenza A virus neutralizing monoclonal antibody binds to a novel epitope within the vestigial esterase domain of hemagglutinin. *Antiviral Res*. 2017 Aug;144:299-310.

Zheng Z, Sze CW, Keng CT, Al-Haddawi M, Liu M, Tan SY, Kwek HL, Her Z, Chan XY, Barnwal B, Loh E, Chang KTE, Tan TC, **Tan YJ**[#], Chen Q[#]. Hepatitis C virus mediated chronic inflammation and tumorigenesis in the humanised immune system and liver mouse model. *PLoS One*. 2017 Sep 8;12(9):e0184127. ([#]co-corresponding authors)

Francisco JC, Dai Q, Luo Z, Wang Y, Chong RH, **Tan YJ**, Xie W, Lee GH, Lin C. Transcriptional Elongation Control of Hepatitis B Virus Covalently Closed Circular DNA Transcription by Super Elongation Complex and BRD4. *Mol Cell Biol*. 2017 Sep 12;37(19). pii: e00040-17.