

Associate Professor Justin Chu's Representative Publications (as of 15 Apr 2025):

1. Ho WS, Yogarajah T, Mohameed JBH, Fong DY, Cheong DHJ, Wong YH, Chu JJH, Chai CLL (2025) Mutagenesis-Guided Target Identification Reveals the Protein-Binding Domain of Nsp14 in Coronaviruses as the Target of a Labdane-Oxindole Compound. **ACS Infectious Diseases** 2025 Apr 10 <https://doi.org/10.1021/acsinfecdis.4c00965>. [JCR IF: 5.578 (2 year 2021-2022)] (SJR 2024:Q1)
2. Tan KS, Liu J, Andiappan AK, Lew ZZR, He TT, Ong HH, Tay DJW, Aw ZQ, Yi B, Fauzi AM, Yogarajah T, Lee CPC, Chu JJH, Chow VT, Prabakaran M, Wang DY (2025) 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. **Emerging Microbes & Infections** Vol. 14 2025 Apr 7 <https://doi.org/10.1080/22221751.2025.2484330> [JCR IF: 19.568 (2 year 2021-2022)] (SJR 2024:Q1)
3. Wang K, Lee SXY, Jaladanki CK, Ho WS, Chu JJH, Fan H, Chai CLL (2025) Identification of Small-Molecule Inhibitors for Enterovirus A71 IRES by Structure-Based Virtual Screening. **Journal of Chemical Information and Modeling** 2025 Mar 1. <https://doi.org/10.1021/acs.jcim.4c01903> [JCR IF: 6.162 (2 year 2021-2022)] (SJR 2024:Q1)
4. Hee JR, Cheng D, Chen YH, Wang SH, Chao CH, Huang SW, Ling P, Wan SW, Chang CP, Chu JJH, Yeh TM, Wang JR (2025) A non-structural protein 1 substitution of dengue virus enhances viral replication by interfering with the antiviral signaling pathway. **Journal of Biomedical Science** 2025 Feb 20;32(1):25. <https://doi.org/10.1186/s12929-024-01116-4>. [JCR IF: 12.771 (2 year 2021-2022)] (SJR 2024:Q1)
5. Tan YW, Bok CF, Lim BJF, Kong LY, Goo KS, Ishida Y, Liu J, Chua CS, Chu JJH (2025) Non-enveloped virus inactivation potency of sodium dodecyl sulfate with citric and glutamic acids. **Frontiers in Microbiology** 19 February 2025; Volume 16 - 2025 <https://doi.org/10.3389/fmicb.2025.1535404> [JCR IF: 6.064 (2 year 2021-2022)] (SJR 2024:Q1)
6. Ying MKL, Masirevic S, Tan YW, Marzinek JK, Fox SJ, Verma CS, Bond PJ, Ishida Y, Liu J, Chua CS, Chu JJH (2025) Exploring non-alcohol-based disinfectant: virucidal efficacy of arginine and Zinc chloride against feline calicivirus. **Frontiers in Microbiology** 13 February 2025; Volume 16 - 2025, <https://doi.org/10.3389/fmicb.2025.1550295> [JCR IF: 6.064 (2 year 2021-2022)] (SJR 2024:Q1)
7. Oo A, Borge A, Lee RCH, Salim CK, Wang W, Ricca M, Fong DY, Alonso S, Brown LE, Porco Jr JA, Chu JJH (2025) In Vitro Discovery of a Therapeutic Lead for HFMD From a Library Screen of Rocaglates/Aglains. **Journal of Medical Virology** 2025 Feb;97(2):e70228. <https://doi.org/10.1002/jmv.70228>. [JCR IF: 20.693(2 year 2021-2022)] (SJR 2024:Q1)
8. Cheong DHJ, Yi B, Wong YH, Chu JJH (2025) The Current Progress in the Quest for Vaccines Against the Semliki Forest Virus Complex. **Medicinal Research Reviews** 2025 Jan 5. doi: 10.1002/med.22097. <https://doi.org/10.1002/med.22097>. [JCR IF: 12.388(2 year 2021-2022)] (SJR 2024:Q1)

9. Yip JQ, Oo A, Ng YL, Chin KL, Tan KK, Chu JJH, AbuBakar S, Zainal N (2024) The role of inflammatory gene polymorphisms in severe COVID-19: a review. ***Virology Journal*** 2024 Dec 20;21(1):327. <https://doi.org/10.1186/s12985-024-02597-3>. [JCR IF: 5.913(2 year 2021-2022)] (SJ2023:Q1)
10. Oo A, Chu JJH (2024) Precision disease management: prognostic biomarker for chronic lung damage in long COVID. ***ERJ Open Research*** 2024 Dec 2; 10(6): 00647-2024; <https://doi.org/10.1183/23120541.00647-2024>. [JCR IF: 4.239(2 year 2021-2022)] (SJ2023:Q1)
11. Abdelbasset M, Saron WA.A, Ma DL, Rathore AP.S., Kozaki T, Zhong CW, Mantri CK, Tan YR, Tung CC, Tey, HL, Chu JJH, Chen JM, Ng LG, Wang HY, Ginhoux F, St. John AL (2024) Differential contributions of fetal mononuclear phagocytes to Zika virus neuroinvasion versus neuroprotection during congenital infection. ***Cell*** 2024 Nov 6:S0092-8674(24)01210-8. <http://doi: 10.1016/j.cell.2024.10.028>. [JCR IF: 66.85(2 year 2021-2022)] (SJ2023:Q1)
12. Lim TYM, Jaladanki CK, Wong YH, Yogarajah T, Fan H, Chu JJH (2024) Tanomastat exerts multi-targeted inhibitory effects on viral capsid dissociation and RNA replication in human enteroviruses. ***EBioMedicine*** 2024 Sep 2:107:105277. <http://doi: 10.1016/j.ebiom.2024.105277> [JCR IF: 11.205(2 year 2021-2022)] (SJ2023:Q1)
13. Chooi WH, Winanto, Zeng Y, Chery, Lim YP, Lim ZQ, Gautam P, Chu JJH, Loh YH, Alonso S, Ng SY (2024) Enterovirus-A71 Preferentially Infects and Replicates in Human Motor Neurons, Inducing Neurodegeneration by Ferroptosis. ***Emerging Microbes & Infections*** 2024 Jul 17:2382235. <http://doi: 10.1080/22221751.2024.2382235>. [JCR IF: 19.568(2 year 2021-2022)] (SJ2023:Q1)
14. Ng QY, Mahendran V, Lim ZQ, Tan JHY, Wong JF, Chu JJH, Chow VTK, Sze NSK, Alonso S (2024) Enterovirus-A71 exploits RAB11 to recruit chaperones for virus morphogenesis. ***Journal of Biomedical Science*** 2024 Jun 28;31(1):65. <http://doi: 10.1186/s12929-024-01053-2> [JCR IF: 12.77(2 year 2021-2022)] (SJ2023:Q1)
15. Tsai YY, Cheng D ,Huang SW, Hung SJ, Wang YF, Lin YJ, Tsai HP, Chu JJH, Wang JR (2024) The molecular epidemiology of a dengue virus outbreak in Taiwan: population wide versus infrapopulation mutation analysis. ***PLoS Neglected Tropical Disease*** 2024 Jun 13;18(6):e0012268. <https://doi: 10.1371/journal.pntd.0012268>. [JCR IF: 4.781(2 year 2021-2022)] (SJ2023:Q1)
16. Jiao H, James SJ, Png CW, Cui C, Li H, Li L, Chia WN, Min N, Li W, Claser C, Rénia L, Wang H, Chen MIC, Chu JJH, Tan KSW, Deng Y, Zhang Y (2024) DUSP4 modulates RIG-I- and STING-mediated IRF3-type I IFN response. ***Cell Death & Differentiation*** 2024 Feb 21. <https://doi: 10.1038/s41418-024-01269-7>. [JCR IF: 12.06(2 year 2021-2022)] (SJ2023:Q1)
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20. Tan YW, Teo FMS, Ler SG, Alli-Shaik A, Nyo M, Chong CY, Tan NWH, Wang RYL, Gunaratne J, Chu JJH (2023) Potential relevance of salivary legumain for the clinical diagnostic of hand, foot, and mouth disease. **Journal of Medical Virology** 2023 Nov;95(11):e29243. doi: 10.1002/jmv.29243. [JCR IF: 20.693(2 year 2021-2022)] (SJR 2023:Q1)
21. Putri GN , Gudla CS, Singh M, Ng CH, Idris FFH, Oo Y, Tan JHY, Wong JFJ, Chu JJH, Selvam V, Selvaraj SS, Shandil RK, Narayanan S, Alonso S (2023) Expanding the anti-flaviviral arsenal: Discovery of a baicalein-derived Compound with potent activity against DENV and ZIKV. **Antiviral Research** 2023 Nov 7:220:105739. doi: 10.1016/j.antiviral.2023.105739. [JCR IF: 10.103(2 year 2021-2022)] (SJR 2023:Q1)
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25. Cheong DHJ, Yogarajah T, Wong YH, Arbrandt G, Westman J, Chu JJH. (2023) CUR-N399, a PI4KB inhibitor, for the treatment of Enterovirus A71 infection. **Antiviral Research** 2023 Aug 30;105713. <https://doi.org/10.1016/j.antiviral.2023.105713>. [JCR IF: 10.103(2 year 2021-2022)] (SJR 2023:Q1)

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29. Boonyasuppayakorn S, Saelee T, Huynh TNT, Hairani R, Hengphasatporn K, Loeanurit N, Cao V, Vibulakhaophon V, Siripitakpong P, Kaur P, Chu JJH, Tunghirun C, Choksupmanee O, Chimnaronk S, Shigeta Y, Rungrotmongkol T, Chavasiri W (2023) The 8-bromobaicalein inhibited the replication of dengue, and Zika viruses and targeted the dengue polymerase **Scientific Reports** Mar 25 2023;13(1):4891. <https://doi.org/10.1038/s41598-023-32049-x> [JCR IF: 4.996(2 year 2021-2022)] (SJR 2023:Q1)
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31. Tan KS, Ong SWX, Koh MH, Tay DJW, Aw DZH, Nah YW, Abdullah MRB, Coleman KK, Milton DK, Chu JJH, Chow VTK, Tambyah PA, Tham KW. (2023) SARS-CoV-2 Omicron variant shedding during respiratory activities. **International Journal of Infectious Diseases** March 2023 <https://doi.org/10.1016/j.ijid.2023.03.029>. [JCR IF: 12.074(2 year 2021-2022)] (SJR 2023:Q1)
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34. Mok CK, Ng YL, Ahidjo BA, Aw ZQ, Chen HX, Wong YH, Lee RCH, Loe MWC, Liu J, Tan KS, Kaur P, Wang DY, Hao EW, Hou XT, Tan YW, Deng JG and Chu JJH (2023) Evaluation of In Vitro and In Vivo Antiviral Activities of Vitamin D for SARS-CoV-2 and Variants. **Pharmaceutics** 2023, 15(3),925; <https://doi.org/10.3390/pharmaceutics15030925>. [JCR IF: 6.525(2 year 2021-2022)] (SJR 2023:Q1)

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