

Associate Professor Justin Chu's Representative Publications (as of 6 Nov 2025):

1. Loh SN, Liao D, Lee RCH, Chu JJH, Kini RM, Mok YK, Koh CY, Sivaraman J (2025) *Aedes aegypti* salivary protein LTRIN activates pro-inflammatory genes in human dermal fibroblasts to counter mosquito-borne viral challenges. ***Virulence*** 2025 Dec;16(1):2580163. [https:// doi: 10.1080/21505594.2025.2580163](https://doi.org/10.1080/21505594.2025.2580163). Epub 2025 Nov 3. [JCR IF: 5.428 (2 year 2021-2022)] (SJR 2024:Q1)
2. Yang SL, DeFalco L, Wang S, Wong YH, Han J, Mok CK, Tan KY, Lim SY, Zhao Z, Zhang Y, Lim JJA, Xiang JS, Sobota R, Wang LF, Chu JJH, Merits A, Huber RG, Wan Y (2025) A conserved long-range RNA interaction in SARS-CoV-2 recruits ADAR1 to enhance virus proliferation. ***Nature Communications*** 2025 Sep 26;16(1):8460. [https:// doi: 10.1038/s41467-025-63297-2](https://doi.org/10.1038/s41467-025-63297-2) [JCR IF: 17.694 (2 year 2021-2022)] (SJR 2024:Q1)
3. Amali AA, Tay DJW, Seow Y, Loh M, Ravikumar S, Yu JJ, Loong SSE, Fong SW, Lee CJM, Lim JJC, Gan LH, Koh WLC, Ding Y, Sam QH, Tan Z, Tan RYM, Lua CB, Chu JJH, Singhal A, Prabhakar S, Chng WJ, Renia L, Lye DCB, Ng LFP, Tan KS, Foo R, Lee CCM, Young B, Chai LYA (2025) Novel NUDCD1 gene variant predisposes to severe COVID-19 disease in Asians through modulation of antiviral DHX15- and MAVS-mediated signalling. ***Frontiers in Immunology*** 2025 Jun 4;16:1581293. [https:// doi: 10.3389/fimmu.2025.1581293](https://doi.org/10.3389/fimmu.2025.1581293). [JCR IF: 8.786 (2 year 2021-2022)] (SJR 2024:Q1)
4. 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: 10.1021/acsinfecdis.4c00965](https://doi.org/10.1021/acsinfecdis.4c00965). [JCR IF: 5.578 (2 year 2021-2022)] (SJR 2024:Q1)
5. 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: 10.1080/22221751.2025.2484330](https://doi.org/10.1080/22221751.2025.2484330) [JCR IF: 19.568 (2 year 2021-2022)] (SJR 2024:Q1)
6. 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: 10.1021/acs.jcim.4c01903](https://doi.org/10.1021/acs.jcim.4c01903) [JCR IF: 6.162 (2 year 2021-2022)] (SJR 2024:Q1)
7. 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: 10.1186/s12929-024-01116-4](https://doi.org/10.1186/s12929-024-01116-4). [JCR IF: 12.771 (2 year 2021-2022)] (SJR 2024:Q1)

8. 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)] (SJ2024:Q1)
9. 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)] (SJ2024:Q1)
10. 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)] (SJ2024:Q1)
11. Xue Y, Xing K, Tham MJR, Li BL, Sikdar N, Leong LP, Lee CH, Chu JJH, Ang WH, Leong DT (2025) Visible light-powered photodynamic antibacterial chlorophyllin-derived metallochlorins. **Chemical Engineering Journal** Volume 504, 15 January 2025. <https://doi.org/10.1016/j.cej.2024.158345>. [JCR IF: 16.744(2 year 2021-2022)] (SJ2024:Q1)
12. 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)] (SJ2024:Q1)
13. 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)
14. 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)
15. 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.org/10.1016/j.cell.2024.10.028>. [JCR IF: 66.85(2 year 2021-2022)] (SJ2023:Q1)
16. 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.org/10.1016/j.ebiom.2024.105277> [JCR IF: 11.205(2 year 2021-2022)] (SJ2023:Q1)

17. 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)] (SJR 2023:Q1)
18. 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)] (SJR 2023:Q1)
19. 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)] (SJR 2023:Q1)
20. 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)] (SJR 2023:Q1)
21. Ho SX, Law JH, Png CW, Alberts R, Zhang Y, Chu JJH & Tan KK (2024) Alterations in colorectal cancer virome and its persistence after surgery. **Scientific Reports** 2024 Feb 3;14(1):2819.doi: 10.1038/s41598-024-53041-z. [JCR IF: 4.996(2 year 2021-2022)] (SJR 2023:Q1)
22. Ravindran S, Kong HY, Joseph T, Chu JJH (2023) Comprehensive emergency management programme of NUS Medicine Biosafety Level 3 Core Facility. **Journal of Environment and Safety** Volume 14(2023) <https://doi.org/10.11162/daikankyo.E22PROCP18>.
23. Chen H, Phuektes P, Yeo LS, Wong YH, Lee RCH, Yi B, Hou X, Liu S, Cai Y, Chu JJH (2023) Attenuation of Neurovirulence of Chikungunya Virus by a Single Amino Acid Mutation in Viral E2 Envelope Protein. **Journal of Biomedical Science** 2024 Jan 17;31(1):8. doi: 10.1186/s12929-024-00995-x. [JCR IF: 12.77(2 year 2021-2022)] (SJR 2023:Q1)
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25. 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)
26. Chin WX, Kong HY, Zhu IXY, Teo ZY, Faruk R, Lee RCH, Ho SX, Aw ZQ, Yi BW, Hou XJ, Tan AKY, Yogarajah T, Huber RG, Cai Y, Wan Y, Chu JJH (2023) Flavivirus genome recoding by codon

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27. Jayasinghe MK, Gao C, Yap G, Yeo BZJ, Vu LT, Tay DJW, Loh WX, Aw ZQ, Chen H, Phung DC, Hoang DV, Prajogo RC, Hooi L, Lim FQ, Pirisinu M, Mok CK, Lim KW, Tang SJ, Tan KS, Chow EKH, Chen L, Phan AT, Chu JJH, Le MT (2023) Red Blood Cell-Derived Extracellular Vesicles Display Endogenous Antiviral Effects and Enhance the Efficacy of Antiviral Oligonucleotide Therapy. **ACS Nano** 2023 Oct 18. <https://doi.org/10.1021/acsnano.3c06803>. [JCR IF: 18.027(2 year 2021-2022)] (SJ2023:Q1)
28. Loe MWC, Lee RCH, Chin WX, Nyo Min, Teo ZY, Ho SX, Yi BW, Chu JJH (2023) Chelerythrine chloride inhibits Zika virus infection by targeting the viral NS4B protein. **Antiviral Research** 2023 Oct <https://doi.org/10.1016/j.antiviral.2023.105732>. [JCR IF: 10.103(2 year 2021-2022)] (SJ2023:Q1)
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39. Loeanurit N, Tuong TL, Nguyen VK, Vibulakhaophan V, Hengphasatporn K, Shigeta Y, Ho SX, Chu JJH, Rungrotmongkol T, Chavasiri W, Boonyasuppayakorn S (2023) Lichen-Derived Diffractaic Acid Inhibited Dengue Virus Replication in a Cell-Based System. **Molecules** 2023 Jan 18;28(3):974. doi: 10.3390/molecules28030974. [JCR IF: 4.927(2 year 2021-2022)] (SJ2023:Q1)
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