

Associate Professor Justin Chu's Representative Publications (as of Jan 2024):

1. 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:11(2022)] (SJR:Q1)
2. 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:12.7(2022)] (SJR:Q1)
3. 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:7.6(2022)] (SJR:Q2)
4. 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 optimisation confers genetically stable *in vivo* attenuation in both mice and mosquitoes. *PLOS Pathogen* October 26, 2023 <https://doi.org/10.1371/journal.ppat.1011753> [JCR IF:6.7(2022)] (SJR:Q1)
5. 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:17.1(2022)] (SJR: Q1)
6. 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:7.6(2022)] (SJR: Q2)
7. 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:7.6(2022)] (SJR: Q2)

8. Keng CT, Yogarajah T, Lee RCH, Muhammad IBH, Chia BS, Vasandani SR, Lim DS, Guo K, Wong YH, Mok CK, Chu JJH, Chew WL. (2023) AAV-CRISPR-Cas13 eliminates human enterovirus and prevents death of infected mice. *EBioMedicine* 2023 Jun 28;93:104682. [https://doi: 10.1016/j.ebiom.2023.104682](https://doi.org/10.1016/j.ebiom.2023.104682). [JCR IF:11.1(2022)] (SJR: Q1)
9. Yi BW, Chew BXZ, Chen HX, Lee RCH, Fong YHD, Chin WX, Mok CK and Chu JJH. (2023) Antiviral Activity of Catechin against Dengue Virus Infection. *Viruses* 2023 Jun 15;15(6):1377. [https://doi: 10.3390/v15061377](https://doi.org/10.3390/v15061377). [JCR IF:4.7(2022)] (SJR: Q2)
10. Lin DCD, Weng SC, Tsao PN, Chu JJH and Shiao SH. (2023) Co-infection of dengue and Zika viruses mutually enhances viral replication in the mosquito *Aedes aegypti*. *Parasites & Vectors* 2023 May 11;16(1):160, [https://doi: 10.1186/s13071-023-05778-1](https://doi.org/10.1186/s13071-023-05778-1). [JCR IF:3.2(2022)] (SJR: Q1)
11. 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:4.6(2022)] (SJR: Q1)
12. Liu LT, Tsai JJ, Chu JJH, Chen CH, Chen LJ, Lin PC, Tsai CY, Hsu MC, Chuang WL, Hwang SJ, Chong IW. (2023) The identification and phylogenetic analysis of SARS-CoV-2 delta variants in Taiwan. *Kaohsiung Journal of Medical Sciences* Mar 23 2023. <https://doi.org/10.1002/kjm2.12665> [JCR IF:3.3(2022)] (SJR: Q2)
13. 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:8.4(2022)] (SJR: Q1)
14. Wu KX, Yogarajah T, Loe MWC, Kaur P, Lee RCH, Mok CK, Wong YH, Phuektes P, Yeo LS, Chow VTK, Tan YW, Chu JJH (2023) The host-targeting compound peruvoside has a broad-spectrum antiviral activity against positive-sense RNA viruses. *Acta Pharmaceutica Sinica B* March 2023 <https://doi.org/10.1016/j.apsb.2023.03.015>. [JCR IF:14.5(2022)] (SJR: Q1)
15. Ju B, Zhang Q, Wang ZY, Aw ZQ, Chen P, Zhou B, Wang RK, Ge XY, Lv QN, Cheng Lin, Zhang R, Wong YH, Chen HX, Wang HY, Shan SS, Liao XJ, Shi XL, Liu L, Chu JJH, Wang XQ, Zhang Z and Zhang LQ (2023) Infection with wild-type SARS-CoV-2 elicits broadly neutralizing and protective antibodies against omicron subvariants. *Nature Immunology* 2023 <https://doi.org/10.1038/s41590-023-01449-6>. [JCR IF:30.5(2022)] (SJR: Q1)
16. 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:5.4(2022)] (SJR: Q1)

17. 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:4.6(2022)] (SJR: Q2)
18. Tan KS, Ang AXY, Tay DJW, Somani J, Ng AJY, Peng LL, Chu JJH, Tambyah PA and Allen DM (2023). Detection of hospital environmental contamination during SARS-CoV-2 Omicron predominance using a highly sensitive air sampling device. *Frontiers in Public Health*, 10 January 2023, <https://doi.org/10.3389/fpubh.2022.1067575>. [JCR IF:5.2(2022)] (SJR: Q1)
19. Li MX, Ren YF, Aw ZQ, Chen B, Yang ZQ, Lei YQ, Cheng L, Liang QT, Hong JX, Yang YL, Chen J, Wong YH, Wei J, Shan SS, Zhang SY, Ge JW, Wang RK, Dong JZJ, Chen YX, Shi XL, Zhang Q, Zhang Z, Chu JJH, Wang XQ & Zhang LQ. (2022) Broadly neutralizing and protective nanobodies against SARS-CoV-2 Omicron subvariants BA.1, BA.2, and BA.4/5 and diverse sarbecoviruses. *Nature Communications* 13, Article number: 7957. <https://doi.org/10.1038/s41467-022-35642-2>. [JCR IF:16.6(2022)] (SJR: Q1)
20. Zhou YH, Zhou CC, Wang K, Qiu Q, Cheng YB, Li Y, Cui P, Liang L, Li Peng, Deng XW, Wang LL, Zheng W, Gong H, Wang F, Xu M, Chu JJH, Turtle L, Yu HJ. (2022) Diagnostic performance of different specimens in detecting enterovirus A71 in children with hand, foot and mouth disease. *Virologica Sinica*, 2022 Nov 10;S1995-820X(22)00188-2. doi: 10.1016/j.virs.2022.11.004. [JCR IF:5.5(2022)] (SJR: Q2)
21. Aw ZQ, Mok CK, Wong YH, Chen H, Mak TM, Lin RTP, Lye DC, Tan KS and Chu JJH. (2022) Early pathogenesis profiles across SARS-CoV-2 variants in K18-hACE2 mice revealed differential triggers of lung damages. *Frontiers in Immunology* 13:950666. <https://doi.org/10.3389/fimmu.2022.950666>. [JCR IF:7.3(2022)] (SJR: Q1)
22. Liew OW, Fanusi F, Ng JYX, Ahidjo BA, Ling SSM, Lilyanna S, Chong JPC, Lim AES, Lim WZ, Ravindran S, Chu JJH, Lim SL and Richards AM. (2022) Immunoassay-Compatible Inactivation of SARS-CoV-2 in Plasma Samples for Enhanced Handling Safety. *ACS Omega* 2022, 7, 29, 25510–25520, <https://pubs.acs.org/doi/10.1021/acsomega.2c02585>. [JCR IF: 4.1(2022)] (SJR: Q2)
23. Cheng D, Huang SW, Chin WX, Hung SJ, Tsai HP, Chu JJH, Chao CH and Wang JR. (2022) Impact of Intrahost NS5 Nucleotide Variations on Dengue Virus Replication. *Frontiers in Microbiology*, July 2022, <https://doi.org/10.3389/fmicb.2022.89420>. [JCR IF: 5.2(2022)] (SJR: Q1)
24. Zhou Y, Zhou J, Yang J, Qiu Q, Wang L, Yang J, Li Y, Liang L, Cui P, Cheng Y, Zheng W, Shi H, Gong H, Wang K, Zhou C, Chu JJH and Yu H. (2022) Comparison of Neutralizing Antibody Response Kinetics in Patients with Hand, Foot, and Mouth Disease Caused by Coxsackievirus A16 or Enterovirus A71: A Longitudinal Cohort Study of Chinese Children, 2017–2019. *Journal of Immunology*, July, 2022, j12200143; DOI: <https://doi.org/10.4049/jimmunol.2200143>. [JCR IF: 4.4(2022)] (SJR: Q1)

25. Warriar T, El Farran C, Zeng Y, Ho BSQ, Bao Q, Zheng ZH, Bi X, Ng HH, Ong DST, Chu JJH, Sanyal A, Fullwood MJ, Collins JJ, Li H, Xu J and Loh YH. (2022) SETDB1 acts as a topological accessory to Cohesin via an H3K9me3-independent, genomic shunt for regulating cell fates. *Nucleic Acids Research*, July, 2022, <https://doi.org/10.1093/nar/gkac531>. [JCR IF: 14.9(2022)] (SJR: Q1)
26. Wang R, Zhang Q, Zhang R, Aw ZQ, Chen P, Wong YH, Hong J, Ju B, Shi X, Ding Q, Zhang Z, Chu JJH and Zhang L. (2022) SARS-CoV-2 Omicron Variants Reduce Antibody Neutralization and Acquire Usage of Mouse ACE2. *Frontiers in Immunology*, June, 2022 <https://doi.org/10.3389/fimmu.2022.854952>. [JCR IF:7.3(2022)] (SJR: Q1)
27. Fong YD, Chu JJH. (2022) Natural products as Zika antivirals. *Medicinal Research Reviews* 2022 May 20, <https://doi.org/10.1002/med.21891>. [JCR IF: 13.3(2022)] (SJR: Q1)
28. Yeo H, Chong CWH, Chen EWH, Lim ZQ, Ng QY, Yan B, Chu JJH, Chow VTK, Alonso S. (2022) A Single Amino Acid Substitution in Structural Protein VP2 Abrogates the Neurotropism of Enterovirus A-71 in Mice. *Frontiers in Microbiology*. 13:821976, <https://doi.org/10.3389/fmicb.2022.821976>. [JCR IF: 5.2(2022)] (SJR: Q1)
29. Wu Z, Chan B, Low J, Chu JJH, Hey HWD, Tay A. (2022) Microbial resistance to nanotechnologies: An important but understudied consideration using antimicrobial nanotechnologies in orthopaedic implants. *Bioactive Materials*. 16:249 – 270, <https://doi.org/10.1016/j.bioactmat.2022.02.014>. [JCR IF: 18.9(2022)] (SJR: Q1)
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31. Banerjee S, Chin WX, Chu JJH. (2022). miR-573 rescues endothelial dysfunction during dengue infection under PPAR γ regulation. *Journal of Virology*. 96(6):e0199621, <https://doi.org/10.1128/jvi.01996-21>. [JCR IF:5.4(2022)] (SJR: Q1)
32. Zakir TS, Meng T, Carmen LCP, Chu JJH, Lin RTP, Prabakaran M. (2022) Characterization of a Broadly Neutralizing Monoclonal Antibody against SARS-CoV-2 Variants. *Viruses*. 14(2):230, <https://doi.org/10.3390/v14020230>. [JCR IF: 4.7(2022)] (SJR: Q2)
33. Tran QTN, Lee RCH, Liu HJ, Ran D, Low VZL, To DQ, Chu JJH, Chai CLL. (2022) Discovery and development of labdane-oxindole hybrids as smallmolecule inhibitors against chikungunya virus infection. *European Journal of Medicinal Chemistry*. 230:114110, <https://doi.org/10.1016/j.ejmech.2022.114110>. [JCR IF: 6.7(2022)] (SJR: Q1)
34. Tan JK, Chen R, Lee RCH, Li F, Dai K, Zhou GC, Chu JJH. (2022) Discovery of Novel Andrographolide Derivatives as Antiviral Inhibitors against Human Enterovirus A71. *Pharmaceuticals*. 15(2):115, <https://doi.org/10.3390/ph15020115>. [JCR IF: 4.6(2022)] (SJR: Q1)
35. Agiesh Kumar Balakrishna Pillai , Chu JJH, Vignesh Mariappan¹ and Aashika Raagavi JeanPierre. (2021) Platelets in the pathogenesis of flavivirus disease. *Current Opinion in Virology*. 52:220-228, <https://doi.org/10.1016/j.coviro.2021.12.007>. [JCR IF: 5.9(2022)] (SJR: Q1)

36. Shan S, Mok CK, Zhang S, Lan J, Li J, Yang Z, Wang R, Cheng L, Fang M, Aw ZQ, Yu J, Zhang Q, Shi X, Zhang T, Zhang Z, Wang J, Chu JJH and Zhang L. (2021) A Potent and Protective Human Neutralizing Antibody Against SARS-CoV-2 Variants. *Frontiers in Immunology*. 12:766821, <https://doi.org/10.3389/fimmu.2021.766821>. [JCR IF:7.3(2022)] (SJR: Q1)
37. Dai K, Tan JK, Qian W, Lee RCH, Chu JJH, Zhou GC. (2021). Discovery of 14S-(2'-chloro-4'-nitrophenoxy)-8R/S,17-epoxy andrographolide as EV-A71 infection inhibitor. *Biochemical Pharmacology*. 194:114820, <https://doi.org/10.1016/j.bcp.2021.114820>. [JCR IF: 5.8(2022)] (SJR: Q1)
38. Tan YW, Chu JJH. (2021). Protecting the most vulnerable from hand, foot, and mouth disease. *The Lancet Infectious Diseases*. 21(3):308-309, [https://doi.org/10.1016/S1473-3099\(20\)30452-7](https://doi.org/10.1016/S1473-3099(20)30452-7). [JCR IF: 56.3(2022)] (SJR: Q1)
39. Ng YL, Salim CK, Chu JJH. (2021). Drug repurposing for COVID-19: Approaches, challenges and promising candidates. *Pharmacology & Therapeutics*. 228:107930, <https://doi.org/10.1016/j.pharmthera.2021.107930>. [JCR IF: 13.5(2022)] (SJR: Q1)
40. Huang K, Chu JJH. (2021). Editorial: Evolution & Genomic Adaptation of Emerging and Re-emerging RNA Viruses. *Frontiers in Microbiology*. 12:777257, <https://doi.org/10.3389/fmicb.2021.777257>. [JCR IF: 5.2(2022)] (SJR: Q1)
41. Tan YW, Yam WK, Kooi RJW, Westman J, Arbrandt G, Chu JJH. (2021) Novel capsid binder and PI4KIIIbeta inhibitors for EV-A71 replication inhibition. *Scientific Reports*. 11(1):9719, <https://doi.org/10.1038/s41598-021-89271-8>. [JCR IF: 4.6(2022)] (SJR: Q1)
42. Lim ZQ, Ng QY, Oo Y, Chu JJH, Ng SY, Sze SK, Alonso S. (2021) Enterovirus-A71 exploits peripherin and Rac1 to invade the central nervous system. *EMBO Reports*. 22(6):e51777, <https://doi.org/10.15252/embr.202051777>. [JCR IF:7.7(2022)] (SJR: Q1)
43. Tan MTH, Ho SX, Chu JJH, Li D. (2021). Application of virome capture sequencing in shellfish sold at retail level in Singapore. *Letters in Applied Microbiology*. 73(4):486-494, <https://doi.org/10.1111/lam.13540>. [JCR IF: 2.4(2022)] (SJR: Q3)
44. Ang AX, Luhung I, Ahidjo BA, Drautz-Moses DI, Tambyah PA, Mok CK, Lau KJ, Tham SM, Chu JJH, Allen DM, Schuster SC. (2021) Airborne SARS-CoV-2 surveillance in hospital environment using high-flowrate air samplers and its comparison to surface sampling. *Indoor Air*. 32(1):e12930, <https://doi.org/10.1111/ina.12930>. [JCR IF: 5.8(2022)] (SJR: Q1)
45. Coleman KK, Tay DJW, Sen Tan K, Ong SWX, Son TT, Koh MH, Chin YQ, Nasir H, Mak TM, Chu JJH, Milton DK, Chow VTK, Tambyah PA, Chen M, Wai TK. (2021) Viral Load of SARS-CoV-2 in Respiratory Aerosols Emitted by COVID-19 Patients while Breathing, Talking, and Singing. *Clinical Infectious Diseases*. ciab691, <https://doi.org/10.1093/cid/ciab691>. [JCR IF:11.8(2022)] (SJR: Q1)
46. Tan YL, Tan KSW, Chu JJH, Chow VT. (2021). Combination Treatment With Remdesivir and Ivermectin Exerts Highly Synergistic and Potent Antiviral Activity Against Murine Coronavirus

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47. Ho SX, Min N, Wong EPY, Chong CY, Chu JJH. (2021). Characterization of oral virome and microbiome revealed distinctive microbiome disruptions in paediatric patients with hand, foot and mouth disease. *npj Biofilms and Microbiomes*. 7(1):19, <https://doi.org/10.1038/s41522-021-00190-y>. [JCR IF:9.2(2022)] (SJR: Q1)
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49. Tay CJX, Ta LDH, Ow Yeong YX, Yap GC, Chu JJH, Lee BW, Tham EH. (2021). Role of Upper Respiratory Microbiota and Virome in Childhood Rhinitis and Wheeze: Collegium Internationale Allergologicum Update 2021. *International Archives of Allergy and Immunology*. 182(4):265-276, <https://doi.org/10.1159/000513325>. [JCR IF: 2.8(2022)] (SJR: Q2)
50. Min N, Ong YHB, Han AX, Ho SX, Yen EWP, Ban KHK, Maurer-Stroh S, Chong CY, Chu JJH (2021). An epidemiological surveillance of hand foot and mouth disease in paediatric patients and in community: A Singapore retrospective cohort study, 2013-2018. *PLoS Neglected Tropical Diseases*. 15(2):e0008885, <https://doi.org/10.1371/journal.pntd.0008885>. [JCR IF: 3.8(2022)] (SJR: Q1)
51. Chin WX, Lee RCH, Kaur P, Lew TS, Yogarajah T, Kong HY, Teo ZY, Salim CK, Zhang RR, Li XF, Alonso S, Qin CF, Chu JJH. (2021). A single-dose live attenuated chimeric vaccine candidate against Zika virus. *npj Vaccines*. 6(1):20, <https://doi.org/10.1038/s41541-021-00282-y>. [JCR IF: 9.2(2022)] (SJR: Q1)
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