

JOHN-SEBASTIAN EDEN

PERSONAL

Full name: John-Sebastian Eden

Date of birth: 28th April 1985

Nationality: Australian

Family: Married, two children

CONTACT

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Websites:

- <https://scholar.google.com.au/citations?user=SKjC1h0AAAAJ>
- <https://www.sydney.edu.au/medicine-health/about/our-people/academic-staff/js-eden.html>
- <https://wimr.org.au/researchers/dr-john-sebastian-eden/>

APPOINTMENTS

CURRENT

2023 – present: Senior Research Scientist & Faculty member, Centre for Virus Research, The Westmead Institute for Medical Research

2025 – present: Honorary Senior Lecturer, Faculty of Medicine and Health, The University of Sydney

PREVIOUS

2023 – 2025: Senior Research Fellow, Faculty of Medicine and Health, The University of Sydney (*0.8 FTE employment*)

2018 – 2022: Research Scientist in Bioinformatics and Genomics & Faculty member, Centre for Virus Research, The Westmead Institute for Medical Research

2018 – 2022: Senior Research Fellow, Faculty of Medicine and Health, The University of Sydney (*Research affiliation*)

2014 – 2017: NHMRC Early Career Fellow, School of Life and Environmental Sciences, Faculty of Science, The University of Sydney

2013 – 2017: Affiliate, Centre for Virus Research, The Westmead Institute for Medical Research

2013 – 2014: Post-doctoral Research Fellow, School of Biological Sciences, Faculty of Science, The University of Sydney

ACADEMIC QUALIFICATIONS

2012: Doctor of Philosophy in Virology, School of Biotechnology and Biomolecular Sciences, Faculty of Science, University of New South Wales; Thesis entitled '*The Evolutionary Dynamics of Norovirus*' and supervised by Professor Peter A. White

2011: Graduate Certificate in Research Management and Commercialisation, University of New South Wales

2009: Diploma in Innovation Management, University of New South Wales

2007: Bachelor of Medical Science (Hons I) majoring in Medical Microbiology and Immunology, University of New South Wales

PROFESSIONAL SERVICE**INTERNAL COMMITTEES & MEMBERSHIPS**

Member of Pathogen Emergence and Spread theme leadership group – *Sydney Institute for Infectious Diseases* (2024 – present)

Member of Westmead Institute for Medical Research Clinical Data Committee (2022 – 2023)

Member of Westmead Hub Genomics Advisory Committee (2020 – present)

Member of Westmead Hub Bioinformatics Advisory Committee (2018 – 2024)

Co-leader of One Health node – *Sydney Institute for Infectious Diseases* (2019 – 2020) and member since 2014

EXTERNAL COMMITTEES & MEMBERSHIPS

Member of Public Health Laboratory Network Expert Reference Panel on Zoonotic Flavivirus Diagnostics (2022 – present)

Member of AusTrakka Japanese Encephalitis Virus National Analysis Team (2023 – present)

Member of Australian Technical Advisory Group on Immunisation RSV Subgroup (2023 – 2024)

Member of *Australian Virology Society* (2009 – present)

Member (professional) of *Australian Society for Microbiology* (2008 – present)

PEER REVIEW

External grant reviewer: UKRI Medical Research Council (2020 – 2021), Centre for Interdisciplinary Research in Animal Health, Portugal (2020) & National Research Foundation, South Africa (2014)
Special Issue Editor for *Viruses*: “Bioinformatics & Computational Approaches in Viral Genomics & Evolution” (2019 – 2020)

Associate Editor for *Frontiers in Virology: Viral Diversification and Evolution* (2022 – present)

Editorial Board Member for *iMeta* (2022 – present)

Peer review for *Nature Microbiology*, *Nature Communications*, *Emerging Infectious Diseases*, *Eurosurveillance*, *Molecular Biology & Evolution*, *Journal of Virology*, *Virus Evolution*, *Influenza and Other Respiratory Viruses*, *PLOS Neglected Tropical Diseases*, *BMC Genomics*, *BMC Public Health*, *Current Opinion in Virology*, *Virology* and other journals.

RESEARCH STUDENT SUPERVISION**LEAD SUPERVISOR**

- Kelvin Yu – Internship (USYD 2024) – *completed*
- Vanessa Huynh – Honours (USYD 2023) – *completed*
- Kate (K9) Jenns – Honours (USYD 2021) & PhD (USYD 2022 – present)
- Rachel Tulloch – PhD (USYD 2019 – present) – *completed*
- Edward Annand – PhD (USYD 2016 – present) – *completed*
- Yasir Kusan – Internship (UNSW 2021) & Honours (UNSW 2021 – 2022) – *completed*
- Elena Cutmore – Honours (USYD 2020) – *completed*
- Gabrielle Lopez – Internship (ACU 2020) & Honours (USYD 2021) – *completed*

AUXILIARY SUPERVISOR (Last 5 years)

- Avirup Sanyal – PhD (USYD 2025 – present)
- Samantha Cronin – PhD (USYD 2023 – present)
- Mark Robertson – RCPA Microbiology Fellowship (2019 & 2022) – *completed*
- Katie Fisher – PhD (USYD 2019 – 2023) – *completed*
- Wei-Shan Chang – PhD (USYD 2018 – 2022) – *completed*
- Jessica Agius – PhD (USYD 2018 – 2021) – *completed*
- Bethany Horsburgh – PhD (USYD 2017 – 2020) – *completed*
- Bonnie Hiener – PhD (USYD 2017 – 2023) – *completed*

TEACHING**WORKSHOPS & TUTORIALS**

- Bioinformatics in clinical metagenomics, CDGN/AusPathoGen Metagenomics webinar (2024)
- Genomic reporting for One Health, CDGN/AusPathoGen Introduction to Pathogen Genomics for Public Health (2023)
- Bioinformatic analysis of pathogens for clinical and public health, CDGN/AusPathoGen Pathogen Genomics for Public Health Webinar (2023)
- Pathogen discovery from meta-transcriptomic data, Pathogen Genomics Summer School, University of Sydney (2019 – present)
- Pathogen genomics and data visualisation workshop, AMED3002: Interrogating Biomedical and Health Data, University of Sydney (2021 – present)
- Introduction to Pathogen Phylogenetic Analysis Workshop, University of Melbourne (2017)
- Viral sequence analysis using CLC Genomics, University of Sydney (2016 & 2017)
- RNA-Seq using High Performance Computing, University of Sydney (2016)
- Grant writing for NHMRC Early Career Fellowships, University of Sydney (2015)
- Evolutionary Analysis using BEAST, Joint Academic Microbiology Seminars (2014)

LECTURING

- Overview of Pathogen Genomics, USYD INFD3012 (2021 – present)
- Phylogenomics of Pathogens, USYD PGEN5001 (2020 – present)
- Pathogen Genomics in Clinical and Public Health, USYD INFD3012 (2021 – present)
- Virus Phylogenetics, USYD AMED3002 (2021 – present)
- PCR in Viral Disease Diagnosis, USYD BMSC5002 (2021 – present)
- Viral Genome Sequencing, USYD BMSC5002 (2021 – present)
- Viral Genomic Sequencing and Discovery, UTS 91819 Virology (2017)
- Biomedical Research Methods – Bioinformatics, USYD Medical program (2016)
- Virus Evolution, USYD VIRO3001 (2016)
- Human Norovirus Evolution, UNSW (2008 – 2013)

CONFERENCES & RESEARCH SEMINARS (Last 5 years)

- 2024: Bioinformatic Pipeline for Infectious Diseases Genomic and Metagenomic Data, HeIDI Annual Forum, Brisbane, QLD
- 2024: Bioinformatics and Processing of Clinical Metagenomic Data, HeIDI Clinical Metagenomics Workshop, Brisbane, QLD
- 2024: Invited speaker, Integrating Genomics and Molecular Epidemiology in a Diagnostic Workflow, ANZCVS Vet Science Week, Gold Coast, QLD
- 2024: Invited speaker, Wildlife Health and Pathology Symposium, Australian Registry of Wildlife Health, Sydney, NSW
- 2024: Development of a clinical mNGS platform at Westmead Hospital, Sydney, Infectious Diseases Breakfast Meetings, Pathology and Laboratory Medicine, University of WA, Virtual
- 2024: Pathogen discovery at the interface of human and animal health, AGRF educational series, Virtual
- 2023: Invited speaker, CIDM lab services education series, Westmead, NSW
- 2023: Invited speaker, Faculty of Engineering, The Chinese University of Hong Kong, Hong Kong, China
- 2023: Invited speaker, Faculty of Medicine, Sun Yat-sen University, Shenzhen, China
- 2023: Invited speaker, BGI Genomics, Guangzhou, China

- 2022: Invited speaker, SAVID Virology Research Seminars, Prince of Wales Hospital, Sydney, NSW
- 2022: Invited speaker, Japanese Encephalitis: One Health in Action – CIDM Public Health, Virtual
- 2022: Invited speaker, Cross-disciplinary JEV Research meeting, Virtual Webinar
- 2021: Invited speaker, Janssen Satellite Symposium, The Eighth ESWI Influenza Conference, Virtual
- 2021: Invited chair, MicroSeq2021, Virtual
- 2021: Invited speaker, 14th Australian Influenza Symposium, Virtual
- 2021: Invited speaker, CREID annual colloquium, Virtual
- 2021: Invited speaker, Zoonoses webinar series, Australasian Society for Infectious Diseases, Virtual
- 2020: Invited speaker, SARS-CoV-2 information session, NSW Health Pathology, ICPMR, Westmead, NSW

RESEARCH FUNDING (Last 5 years)

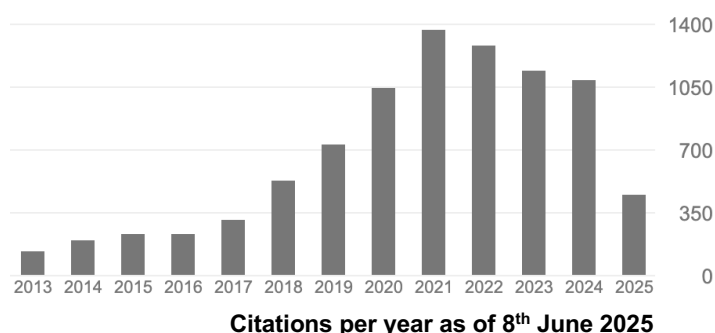
- 2025 – 2025: Sydney Institute for Infectious Diseases, Seed funding, \$12,100, *Unlocking Viral Persistence - Investigating Feral Pigs as Sentinels for Japanese Encephalitis Virus and Other Emerging Pathogens*; Co-CI with K9 Jenns
- 2025 – 2025: Sydney Institute for Infectious Diseases, Seed funding, \$20,000, *Enhanced Viral Surveillance: A Capture Sequencing Panel for Emerging Bat Viruses*; Co-CI with Dr Alison Peel
- 2024 – 2025: USYD-UC Davis Ignition Grants, \$32,000, *Dead reckoning – using carcass decay for One Health surveillance*; Co-CI with A/Prof Tom Newsome, A/Prof Vikki Brookes, Dr Alison Peel
- 2023 – 2024: Australian Centre for HIV and Hepatitis Virology Research (ACH2), \$50,000, *Building active surveillance systems to track hepatitis C virus epidemiology and antiviral resistance*; Co-CI with A/Prof Mark Douglas, Dr Jen Kok, A/Prof Thomas Tu, Prof Tony Cunningham & Prof Jacob George
- 2022 – 2023: Sydney Institute for Infectious Diseases (One Health node), Seed funding, \$10,000, *Developing a genomic toolkit for detecting a novel equine nidovirus*; Co-CI with K9 Jenns
- 2022 – 2024: Janssen Pharmaceuticals, A Study of Acute Respiratory Infections in Global Outpatient Setting (ARGOS), Clinical Trial Contract, \$200,000, *RSV genomic sequencing and analysis*; Co-CI with Dr Jen Kok
- 2021 – 2022: Sydney Institute for Infectious Diseases (Zoonoses node), Seed funding, \$10,000, *Developing a genomic toolkit for understanding Hendra virus disease*; Co-CI with Dr Beth Horsburgh & Dr Ed Annand
- 2021 – 2025: MRFF Genomics Health Futures Mission – Flagship - Pathogen Genomics, \$6,984,360 (\$1.2 million for USYD); Meta-GP: Delivering a Clinical Metagenomics Platform for Australia; Co-investigators with Professors Eddie Holmes, Dominic Dwyer, Phil Britton, Vitali Sintchenko, & Jen Kok
- 2020 – 2022: Snow Medical Research Foundation, \$199,567; *BEAT COVID-19 – Urgent research to minimise the health, social and economic impacts of COVID-19*; CI
- 2020 – 2021: Marie Bashir Institute for Infectious Diseases and Biosecurity; \$100,000; *New genomics approach to improve understanding of COVID-19*; CI
- 2020 – 2021: Australian Government Department of Agriculture – Biosecurity Innovation Project; \$350,000; *Metagenomic Investigation of Horses as Sentinels*; Co-CI with Dr Ed Annand, Dr Ina Smith, A/Prof Navneet Dhand and A/Prof Andrew Breed

- 2020 – 2021: Defense Advanced Research Projects Agency (sub-contract from Griffith University); \$500,000 USD (\$92,400 AUD for WIMR); *Preempting spillover of novel coronaviruses from bats to humans*; Co-PI with Dr Ed Annand, Dr Ina Smith, Dr Raina Plowright, Dr Alison Peel
- 2020 – 2020: CREID & APPRISE COVID-19 special funding call; \$30,000; *Investigating the dynamics of within-host viral diversity during prolonged, severe SARS-CoV-2 infection*; PI

PUBLICATION METRICS

Citations taken from Google Scholar

- Research articles: 98
- Total citations: 8918
- h-index: 40
- i10-index: 84



PUBLICATIONS

*indicates shared authorship

98. **Eden JS***, Neave MJ*, Smith CS*, Batovska J*, Mileto P, Caly L, Kim K, Breed AC, Bhardwaj V, Holmes EC, Mackenzie JS, Dwyer DE, Tuckett G, Richards K, Kirkland PD, Lynch SE, Kok J, Williams DT & the Public Health Laboratory Network Expert Reference Group on Zoonotic Flavivirus Diagnostics. The unexpected emergence of the Japanese encephalitis virus in Australia suggests rapid dispersal in largely naïve vertebrate hosts. (*preprint*)
97. Tulloch R, Horsburgh B, Cutmore E, Tran T, Jordan P, Donovan L, Ngo C, Carter I, Hammond JM, Shi M, Deveson I, Britton PN, Dwyer DE, Kok J & **Eden JS**. The Genomic Epidemiology of Human Metapneumovirus in Australia and the impact of COVID-19. (*preprint*)
96. Yinda CK*, **Eden JS***, Prates E, Vlot A, Anzick S, Wang J, Halpin K, orremans B, Lunn T, Barbian K, Greene B, Meade-White K, Bushmaker T, Falvo C, Crowley D, Jones-Slobodian D, Shah M, Pavicic M, Carr W, Martens C, Jacobson D, Plowright R, Peel A* & Munster V*. Spatio-temporal dynamics of Hendra virus in Pteropus bats in Australia reveals high evolutionary diversity linked with spillover. *Nature Microbiology*. 2025 (*in revision*)
95. Kuang G, Yang T, Yang W, Wang J, Pan H, Pan YF, Gou QY, Wu WC, Wang J, Yang L, Han X, Chen YQ, **Eden JS**, Holmes EC, Shi M & Feng Y. Infectome analysis of bat kidneys from Yunnan province, China, reveals close relatives of Hendra-Nipah viruses and prevalent bacterial and eukaryotic pathogens. *PLoS Pathog*. 2025 (*accepted manuscript*).
94. Peel A, Ruiz-Aravena M, Kim K, Scherting B, Falvo C, Crowley D, Munster V, Annand E, Plain K, Jones D, Lunn T, Dale A, Hoegh A*, **Eden JS*** & Plowright R*, Synchronized seasonal excretion of multiple coronaviruses in Australian Pteropus spp is associated with co-infections in juvenile and subadult bats. *Nature Communications*. 2025 (*accepted manuscript*)
93. Howard-Jones AR, Mahar JE, Proudmore K, Butel-Simoes GI, **Eden JS**, Neave MJ, Mileto P, Hueston L, Freeman K, Ellem J, Caly L, Sikazwe C, Levy A, Thomas A, Taylor C, Kurucz N, Smyth K, Jennison A, Moore P, Wright R, Mee PT, Brischetto A, Feldman R, Dwyer DE, O'Sullivan MV, Mahony AA, Warner MS, Papanicolas LE, Schlebusch S, Lim CK, Baird R, Speers D, Williams DT, Currie BJ & Kok J, Diagnostic and phylogenetic perspectives of the 2023 Murray Valley encephalitis virus outbreak in Australia, *The Lancet Microbe*. 2025

(accepted manuscript)

92. Jenns K9, **Eden JS**, Olsson A & Phalen D. Two Avastrovirus Species Discovered in Psittaciformes Expand the Host Range of the Family Astroviridae, *Viruses*. 2025; 17(3):450
91. Ma AZ, Yeo YY, Lee JF, Kim CM, Ezzatpour S, Menchaca C, Upadhye V, Annand EJ, **Eden JS**, Plowright RK, Peel AJ, Buchholz DW & Aguilar HC. Functional assessment of the glycoproteins of a novel Hendra virus variant reveals contrasting fusogenic capacities of the receptor-binding and fusion glycoproteins. *mBio*. 2025; 16(2). e03482-23
90. Hou X, He Y, Fang P, Mei SQ, Xu Z, Wu WC, Tian JH, Zhang S, Zeng ZY, Gou QY, Xin GY, Le SJ, Xia YY, Zhou YL, Hui FM, Pan YF, **Eden JS**, Yang ZH, Han C, Shu YL, Guo D, Li J, Holmes EC, Li ZR & Shi M. Using artificial intelligence to document the hidden RNA virosphere, *Cell*. 2024 Oct 3:S0092-8674(24)01085-7
89. Pan YF, hao H, Gou QY, Shi PB, Tian JH, Feng Y, Li K, Yang WH, Wu D, Tang G, Zhang B, Ren Z, eng S, Luo GY, Le SJ, Xin GY, Wang J, Hou X, Peng MW, Kong JB, Chen XX, Yang CH, Mei SQ, Liao YQ, Cheng JX, Wang J, Chaolemen, Wu YH, Wang JB, An T, Huang X, **Eden JS**, Li J, Guo D, Liang G, Jin X, Holmes EC, Li B, Wang D, Li J, Wu WC & Shi M, Metagenomic analysis of individual mosquito viromes reveals the geographical patterns and drivers of viral diversity, *Nature Ecol & Evol*. 2024 May;8(5):947-959
88. Hurley S*, **Eden JS***, Bingham J, Rodriguez M, Neave M, Johnson A, Howard-Jones A, Kok J, Anazodo A, McMullan B, Williams D, Watson J, Solinas A, Kim KW & Rawlinson W. Fatal human neurological infection due to pigeon Avian Paramyxovirus-1. *Emerging Infect Dis*. 2023; 29(12):2482
87. Tulloch RL, Kim K, Sikazwe C, Michie A, Burrell R, Holmes EC, Dwyer DE, Britton PN, Kok J, & **Eden JS**. RAPIDprep: A Simple, Fast Protocol for RNA Metagenomic Sequencing of Clinical Samples. *Viruses*. 2023; 15(4):1006
86. Maamary J, Maddocks S, Barnett Y, Wong S, Rodriguez M, Hueston L, Jeffreys N, B, Dwyer DE, Floyd T, Plit M, Kok J & Brew B. New Detection of Locally Acquired Japanese Encephalitis Virus Using Clinical Metagenomics, New South Wales, Australia. *Emerging Infect Dis*. 2023; 29(3):627
85. Howard-Jones AR, Pham D, Jeffreys N, **Eden J-S**, Hueston L, Kesson AL, Nagendra V, Samarasekara H, Newton P, Chen SCA, O'Sullivan MV, Maddocks S, Dwyer DE & Kok J. Emerging Genotype IV Japanese Encephalitis Virus Outbreak in New South Wales, Australia. *Viruses*. 2022; 14(9):1853
84. Pham D, Howard-Jones AR, Hueston L, Jeffreys N, Doggett S, Rockett R, **Eden JS**, Sintchenko Laurens Lambrechts V, Chen SCA, O'Sullivan MV, Maddocks S, Dwyer DE & Kok J. Emergence of Japanese Encephalitis in Australia: A Diagnostic Perspective. *Pathology*. 2022; 54(6):669-677
83. Taylor J, Thompson K, Annand EJ, Massey P, Bennett J, **Eden JS**, Horsburgh BA, Hodgson E, Wood K, Kerr J, Kirkland P, Finlaison D, Peel AJ, Eby P & Durrheim DN. Novel variant Hendra virus genotype 2 infection in a horse in the greater Newcastle region, New South Wales, Australia. *One Health*, 2022; 100423
82. Wang Z, Dang HV, Amaya M, Xu Y, Yin R, Yan L, Hickey AC, Annand EJ, Horsburgh BA, Reid PA, Smith IL, **Eden JS**, Xu K, Broder CC & Velesler D. Potent monoclonal antibody-mediated neutralization of a divergent Hendra virus variant. *Proc Nat Acad Sci*. 2022; 119(22): e2122769119
81. **Eden JS***, Sikazwe C*, Xie R*, Deng YM, Sullivan SG, Michie A, Levy A, Cutmore E, Blyth CB, Britton PN, Crawford N, Dong X, Dwyer DE, Edwards KM, Horsburgh BA, Foley D, Kennedy K, Minney-Smith C, Speers D, Tulloch RL, Holmes EC, Dhanasekaran V, Smith DW, Kok J & Barr IG. Off-season RSV epidemics in Australia after easing of COVID-19

- restrictions. *Nature Comms*. 2022; 13(1):1-9
80. Peel AJ, Yinda CK, Annand EJ, Dale AS, Eby P, **Eden JS**, Jones DN, Kessler MK, Lunn TJ, Pearson T, Schulz JE, Smith IL, Munster VJ & Plowright RK for the Bat One Health Group. Novel Hendra Virus Variant Circulating in Black Flying Foxes and Grey-Headed Flying Foxes, Australia. *Emerging Infect Dis*. 2022; 28(5):1043
 79. Annand EJ, Horsburgh BA, Xu K, Reid PA, Poole B, de Kantzow MC, Brown N, Tweedie A, Michie M, Grewar JD, Jackson AE, Singanallur NB, Plain KM, Tachedjian M, van der Heide B, Williams DT, Secombe C, Laing ED, Sterling S, Yan L, Jackson L, Jones C, Plowright RK, Peel AJ, Diallo I, Breed AC, Broder CC, Britton PN, Dhand NK*, Smith* I & **Eden JS***. Novel Hendra virus variant detected by sentinel surveillance of Australian horses. *Emerging Infect Dis*. 2022; 28(3): 693.
 78. Fisher K, Wang XQ, Lee A, Morcilla V, de Vries A, Lee E, **Eden JS**, Deeks SG, Kelleher AD & Palmer S. Plasma-Derived HIV-1 Virions Contain Considerable Levels of Defective Genomes. *J. Virol*. 2022; 96(6): e02011-21
 77. Cole B, Lambrechts L, Boyer Z, Noppe Y, De Scheerder MA, **Eden JS**, Vrancken B, Schlub T, Frenkel LM, McLaughlin S, Palmer S & Vandekerckhove L. Extensive characterization of HIV-1 reservoirs reveals links to plasma viremia before and during analytical treatment interruption. *Cell Reports*. 2022; 39(4): 110739.
 76. Porter AF, Cobbin J, Li CX, **Eden JS** & Holmes EC. Metagenomic identification of viral sequences in laboratory reagents. *Viruses*. 2021; 13(11): 2122
 75. Horsburgh BA, Hiener B, Fisher K, Lee E, Morgan H, **Eden JS**, von Stockenstrom S, Odevall L, Milush JM, Hoh R, Fromentin R, Chomont N, Hecht FM, Schlub TE, Deeks SG & Palmer S. Cellular activation, differentiation and proliferation influence the dynamics of genetically-intact proviruses over time. *J Infect Dis*. 2021; jia291
 74. Robertson M*, **Eden JS***, Levy A, Carter I Tulloch RI, Cutmore EJ, Horsburgh BA, Sikazwe CT, Dwyer DE, Smith DW & Kok J. Spatio-temporal dynamics of respiratory syncytial virus infections across the east-west coasts of Australia during 2016-17. *Virus Evol*. 2021; veab068.
 73. Tulloch R, Kok J, Carter I, Dwyer DE & **Eden JS**. An Amplicon-Based Approach for the Whole Genome Sequencing of Human Metapneumovirus. *Viruses*. 2021; 13(3): 499.
 72. **Eden JS**. Genome sequencing and its use in public health responses to COVID-19. *Microbiology Australia*. 2021; 42(1): 44-46.
 71. Agius JE, Phlaen DN, Rose K & **Eden JS**. Genomic insights into the pathogenicity of a novel biofilm-forming *Enterococcus* sp. bacteria (*Enterococcus lacertideformus*) identified in reptiles. *Frontiers in Microbiology*. 2021; 12: 635208
 70. Lee E, Sandgren K, Duette G, Stylianou VV, Khanna R, **Eden JS**, Blyth E, Gottlieb D, Cunningham AL & Palmer S. Identification of SARS-CoV-2 Nucleocapsid and Spike T-cell Epitopes for Assessing T-cell Immunity. *Journal of Virology*. 2021; 95(6). pii: e02002-20.
 69. Turnbull OMH, Ortiz-Baez AS, **Eden JS**, Shi M, Williamson JE, Gaston TF, Zhang YZ, Holmes EC, & Geoghegan JL. Meta-transcriptomic identification of divergent Amnoonviridae in fish. *Viruses*. 2020. 12 (11), 1254
 68. Nguyen TT, Pham TN, Van TD, Nguyen TT, Nguyen DTN, Le HNM, **Eden JS**, Rockett RJ, Nguyen TTH, Vu BTN, Tran GV, Le TV, Dwyer DE & Van Doorn HR on behalf of the OUCRU COVID-19 Research Group. Genetic diversity of SARS-CoV-2 and clinical, epidemiological characteristics of COVID-19 patients in Hanoi, Vietnam. *Plos one*. 2020; 15 (11), e0242537
 67. Bull RA, Adikari T, Hammond JM, Stevanovski I, Ferguson JM, Beukers AG, Naing Z, Yeang M, Verich A, Gamaarachichi H, Kim KW, Luciani F, Stelzer-Braid S, **Eden JS**, Rawlinson

- WD, van Hal SJ & Deveson IW. Analytical validity of nanopore sequencing for rapid SARS-CoV-2 genome analysis. *Nature Comms*. 2020; 11 (1), 1-8
66. Chang WS, Li CX, Hall J, **Eden JS**, Hyndman TH, Holmes EC & Rose K. Meta-transcriptomic discovery of a divergent circovirus and a chaphamaparvovirus in captive reptiles with proliferative respiratory syndrome. *Viruses*. 2020; 12(10):1073
 65. Porter AF, Pettersson JHO, Chang WS, Harvey E, Rose K, Shi M, **Eden JS**, Buchmann J, Moritz C & Holmes EC. Novel hepaci- and pegi-like viruses in native Australian wildlife and non-human primates. *Virus Evol*. 2020; veaa064
 64. Ortiz-Baez AS, Cousins K, **Eden JS**, Chang WS, Harvey E, Pettersson JHO, Carver S, Polkinghorne A, Šlapeta J, Rose K & Holmes EC. Meta-transcriptomic identification of *Trypanosoma* spp. in native wildlife species from Australia. *Parasites Vectors*. 2020; 13:447
 63. Basile K, Rahman H, Carter I, Donovan L, Kumar S, Tran T, Ko D, Alderson S, Sivaruban T, **Eden JS**, Rockett R, O'Sullivan MV, Sintchenko V, Chen SC, Maddocks S, Dwyer DE & Kok J. Response to correspondence received on our paper: Interpret with caution: an evaluation of the commercial AusDiagnostics versus in-house developed assays for the detection of SARS-CoV-2 virus. *J Clin Virol*. 2020; 130:104484
 62. Rahman H, Carter I, Basile K, Donovan L, Kumar S, Tran T, Ko D, Alderson S, Sivaruban T, **Eden JS**, Rockett R, O'Sullivan MV, Sintchenko V, Chen SC, Maddocks S, Dwyer DE & Kok J. Interpret with caution: An evaluation of the commercial AusDiagnostics versus in-house developed assays for the detection of SARS-CoV-2 virus. *J Clin Virol*. 2020; 127:104374
 61. Rockett RJ, Arnott A, Lam C, Sadsad R, Timms V, Gray KA, **Eden JS**, Chang S, Gall M, Draper J, Sim EM, Bachmann NL, Carter I, Basile K, Byun R, O'Sullivan MV, Chen SC, Maddocks S, Sorrell TC, Dwyer DE, Holmes EC, Kok J, Prokopenko M & Sintchenko V. Revealing COVID-19 transmission in Australia by SARS-CoV-2 genome sequencing and agent-based modeling. *Nat Med*. 2020; 26(9):1398-1404
 60. **Eden JS**, Rockett R, Carter I, Rahman H, de Ligt J, Hadfield J, Storey M, Ren X, Tulloch R, Basile K, Wells J, Byun R, Gilroy N, O'Sullivan MV, Sintchenko V, Chen SC, Maddocks S, Sorrell TC, Holmes EC, Dwyer DE & Kok J for the 2019-nCoV Study Group. An emergent clade of SARS-CoV-2 linked to returned travellers from Iran. *Virus Evol*. 2020; 6(1):veaa027
 59. Tuddenham R*, **Eden JS***, Gilbey T, Dwyer DE, Jennings Z, Holmes EC & Branley JM. Human pegivirus in brain tissue of a patient with encephalitis. *Diagn Microbiol Infect Dis*. 2020; 96(2): 114898
 58. Horsburgh BA, Lee E, Hiener B, Eden JS, Schlub TE, von Stockenstrom S, Odevall L, Milush JM, Liegler T, Sinclair E, Hoh R, Boritz EA, Douek DC, Fromentin R, Chomont N, Deeks SG, Hecht FM & Palmer S. High levels of genetically intact HIV in HLA-DR+ memory T cells indicates their value for reservoir studies. *AIDS*. 2020; 34(5):659-68
 57. Chang WS*, **Eden JS***, Hall J, Shi M, Rose K & Holmes EC. Metatranscriptomic Analysis of Virus Diversity in Urban Wild Birds with Paretic Disease. *J Virol*. 2020; 94(18):e00606-20
 56. Vaz FF, Raso TF, Agius JE, Hunt T, Leishman A, **Eden JS** & Phalen DN. Opportunistic sampling of wild native and invasive birds reveals a rich diversity of adenoviruses in Australia. *Virus Evol*. 2020; 6(1):veaa024
 55. Ortiz-Baez AS, **Eden JS**, Moritz C & Holmes EC. A Divergent Articulavirus in an Australian Gecko Identified Using Meta-Transcriptomics and Protein Structure Comparisons. *Viruses*. 2020; 12(6):613
 54. Porter AF, Shi M, **Eden JS**, Zhang ZY & Holmes EC. Diversity and evolution of novel invertebrate DNA viruses revealed by meta-transcriptomics. *Viruses*. 2019; 11:1092
 53. Douglas MW, Tay ES, **Eden JS** & George J. Hepatitis C Virus Genotype 8 Infection—Successful Treatment With Sofosbuvir/Velpatasvir. *J Infect Dis*. 2019; 220(4):720-722

52. Pettersson JHO, Shi M, **Eden JS**, Holmes EC & Hesson JC. Meta-transcriptomic comparison of the RNA viromes of the mosquito vectors *Culex pipiens* and *Culex torrentium* in northern Europe. *Viruses*. 2019; 11:1033
51. Marcelino VR, Wille M, Hurt AC, González-Acuña D, Klaassen M, **Eden JS**, Shi M, Iredell JR, Sorrell TC & Holmes EC. Meta-transcriptomics reveals a diverse antibiotic resistance gene pool in avian microbiomes. *BMC Biol*. 2019; 17:31
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