

# Vijaykrishna Dhanasekaran (Vijay)

Program in Emerging Infectious Diseases &  
Centre for Computational Biology,  
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<b>RESEARCH</b>	Integrating the epidemiological, evolutionary and immunological dynamics of infectious diseases	
<b>APPOINTMENTS</b>	<b>Assistant Professor</b> , Laboratory of Virus Evolution, Program in Emerging Infectious Diseases, Duke-NUS Graduate Medical School, Singapore	2010–
	<b>Joint Assistant Professor</b> , Department of Pathology, Singapore General Hospital, SingHealth	2014–
	<b>Visiting Scientist</b> , World Health Organisation Collaborating Centre on Reference and Research on Influenza, VIDRL, Melbourne, Australia	2011–
	<b>Joint Assistant Professor</b> , Department of Microbiology, Yong Loo Lin School of Medicine, National University of Singapore	2013–2015
	<b>Research Assistant Professor</b> , State Key Laboratory of Emerging Infectious Diseases, The University of Hong Kong, Hong Kong	2009–2010
<b>EDUCATION</b>	<b>The University of Hong Kong</b> <i>Postdoctoral fellow</i>	2006–2009
	<b>The University of Hong Kong</b> <i>PhD – Phylogenetics, Mycology</i>	2002–2005
	<b>University of Madras, Chennai, India</b> <i>MPhil - Microbial Ecology</i>	2000–2001
	<b>University of Madras, Chennai, India</b> <i>MSc - Botany</i>	1997–1999
	<b>University of Madras, Chennai, India</b> <i>BSc - Botany</i>	1994–1997
	<b>Imperial College, London</b> <i>Short Course in Mathematical Modeling</i>	2012
<b>GRANTS</b> (in progress)	<b>Courage Fund</b> Infectious Disease Conference: Support for Infectious Disease Focused Workshops	US\$ 34,100
	<b>Singapore MOH-CDPHRG (CDPHRG14Nov014)</b> “KIDs-In View (Keeping Infectious Diseases In View): A sentinel surveillance system for respiratory infections in Singapore childcare centres” (Role: Col)	US\$ 597,117
	<b>US NIAID Centers of Excellence for Influenza Research and Surveillance</b> (Role: subaward PI) (2015–2021)	US\$ 749,568
	<b>US NIH, Influenza Genome Sequencing Program.</b> “Epidemiology and evolutionary dynamics of influenza viruses from Southern India, a pilot study”. (Role: Collaborator) (01/01/2015–31/12/2016)	Funding to sequence 300 influenza full genomes through JCVI sequencing facility
	<b>Singapore MOH-CDPHRG (MOH/CDPHRG/0012/2014).</b> “Epidemiological and evolutionary dynamics of respiratory viruses in Singapore.” (Role: Co-I) (04/08/2014–31/07/2017)	US\$ 709,654
	<b>Singapore NMRC-IRG (CIRG12nov040).</b> “Defining the role of 3’ untranslated region of the dengue virus genome in determining viral fitness and epidemic dengue” (Role: Co-I) (10/01/2014–31/01/2017)	US\$ 833,131
	<b>Singapore NIG (NMRC/BNIG/2014).</b> “The molecular basis for EV71 pathogenesis and epidemic potential” (Role: Co-I) (18/07/2014–31/07/2016)	US\$ 157,028
	<b>US NIH R21.</b> “Diversity and dispersal routes of bat-borne Paramyxoviruses in densely populated tropical Asia” (Role: Subaward - PI) (2013–2015)	US\$ 126,002
	<b>Singapore MOH-CDPHRG.</b> “Genetic diversity of human influenza viruses from a community cohort versus sentinel and hospital-based surveillance in Singapore” (Role: Co-I) (2013–2016)	US\$ 635,756
<b>GRANTS</b> (completed)	<b>Singapore MoE ARF Tier 2.</b> “Evolutionary consequences of reassortment of influenza A viruses” (Role: PI) (2012–2015)	US\$ 493,350

	<b>Singapore NMRC-IRG.</b> “Evolutionary genomics of the 2009 swine-origin H1N1 influenza A pandemic virus” (Role: Co-I) (2010–2013)	US\$ 949,991
	<b>US NIH, Influenza Genome Sequencing Program.</b> “Spatial and Temporal dynamics of human seasonal influenza B in Australia and New Zealand” (Role: PI) (2013)	US\$ 100,000
	<b>Singapore NMRC-NIG.</b> “Adaptation and divergence of influenza virus in a controlled environment” (Role: Collaborator) (2010–2012)	US\$ 107,061
	<b>US Foreign Animal and Zoonotic Disease (FAZD) Center of the Dept of Homeland Security.</b> “Quantifying transmission of influenza in swine using joint analysis of surveillance data.” (Role: Co-PI) (2010–2011)	US\$ 114,084
	<b>HK-RGC.</b> “Long-term surveillance for bat-borne viruses: An insight into viral ecology, evolutionary dynamics, and the source of zoonoses” (Role: Co-PI) (2009–2012)	US\$ 135,6111
	<b>UNAID Centers of Excellence for Influenza Research and Surveillance</b> (Role: Co-I) (2007–2014)	~US\$ 150,000
<b>Awards</b>	The University of Hong Kong Research Output Prize 2010–11, Li Ka Shing Faculty of Medicine, for Vijaykrishna et al. <i>Nature</i> 2011	2011
	The University of Hong Kong Research Output Prize 2009–10, Li Ka Shing Faculty of Medicine, HK\$ 80,000 for Smith et al. <i>Nature</i> 2009	2010
	NIAID/NIH Selected Science Advances 2009 for rapid characterization of the 2009 H1N1 pandemic and special recognition award “In Honor of Extraordinary Work in H1N1 Influenza Research”	2009
	Post-Graduate Research Scholarship 2002–04, The University of Hong Kong HK\$ 468,000	2002
<b>PROFESSIONAL EXPERIENCE AND OTHER AFFILIATIONS</b>	<b>Scientific committee</b> , 7th Orthomyxovirus research conference, Toulouse, France	2014–
	<b>Chair</b> , Virology Working Group, HFMD Consortium	
	<b>Member</b> , Duke-NUS Graduate Medical School Research Mentorship	2013–2014
	<b>Member</b> , Astroviridae study group, International Committee on Taxonomy of Viruses, Virology Division of the International Union of Microbiological Sciences	2012–
	<b>Visiting Scientist</b> , WHO Collaborating Centre for Reference and Research on Influenza, VIDRL, Melbourne, Australia	2011–
	<b>Invited Observer</b> , WHO Consultation on the Composition of Influenza Vaccines	2008, 2009
	<b>Member</b> , NIAID/NIH Center of Excellence for Influenza Research and Surveillance, St Jude Children’s Research Hospital, Memphis, USA	2007–2021
	<b>Member</b> , WHO/OIE/FAO Working Group on Evolution and Nomenclature of Influenza A H5N1 virus	2007–
<b>TEACHING</b>	<b>Duke-NUS Graduate Medical School</b>	
	<i>Lecturer</i> , Principles of Infectious Diseases (GMS6904) “Surveillance and Pathogen Discovery” “Epidemiological and Evolutionary Dynamics of Infectious Diseases”	2013, 2014, 2015, 2016
	<i>Lecturer</i> , Genetic Analysis of Infectious Diseases (GMS6905)	2013, 2014
	<b>The University of Hong Kong</b>	
	<i>Lecturer</i> , Virus Evolution and Phylogenetics	2007–2009
	<i>Lecturer &amp; Instructor</i> , Phylogenetic Analysis for Graduate Students	2004–2005
	<i>Student Demonstrator</i> , Microbiology	2003–2004

### Workshops

<i>Lecturer, Pathogen Genomics Capacity Building Workshop, School of Public Health, NUS, Singapore</i>	Feb 2015
<i>Course Director, Next-Gen sequence analysis and phylogenetic analysis, Institute Pasteur, Ho Chi Minh, Vietnam</i>	Dec 2014
<i>Lead instructor, Advanced phylogenetics, High Security Animal Disease Laboratory (HSADL), Indian Veterinary Research Institute, Indian Council of Agricultural Research, Bhopal, India</i>	Jan 2013
<i>Lecturer, Virus Evolutionary Genomics (Bioinformatics Workshop), Australian Virology Group Meeting 2009, Mantra Erskine Lorne, VIC, Australia.</i>	Dec 2009
<i>Instructor, Host immune responses and emerging infectious diseases, Shantou University, China.</i>	Jul 2009
<i>Instructor, Viral Phylogenetics, 8th Asia Pacific Congress of Medical Virology, Hong Kong</i>	Feb 2009
<i>Instructor, Workshop on Molecular Evolution and Epidemiology of Avian influenza, International Center for Genetic Engineering and Biotechnology, New Delhi, India</i>	Oct 2008
<i>Instructor, ICAV Workshop on Avian Influenza Virus Genomics and Bioinformatics Workshop, ICAV, Abuja, Nigeria</i>	Jul 2008
<i>Instructor, WHO/NCBI Workshop on Avian Influenza Virus Genomics and Bioinformatics Workshop, School of Public Health, Hanoi, Vietnam</i>	Aug 2007
<i>Instructor, 4<sup>th</sup>, 5<sup>th</sup> and 6<sup>th</sup> Pasteur-Asia Virology Courses, HKU-Pasteur Research Centre, Hong Kong.</i>	Jul 2007, 2008 & 2009

### PUBLICATIONS

#### Metrics

***h-index: 34; i10-index: 42***

*67 peer-reviewed publications with total citations: >6000, averaging >800 citations per year since 2010*

*(data from Google Scholar, Oct 2015)*

*Including Nature (X2), Science (X1), PNAS (X6), eLife (X1) Journal of Virology (X10)*

(PDF's available on request. \* indicates equal contribution, # indicates corresponding)

#### Articles

1. Australia wild bird paper
2. Hurt et al. Penguin paper
3. Vijaykrishna flu b paper
4. Donato C, Malaysia paper
5. Joseph U, Su YCF, **Vijaykrishna D**, Smith GJD. 2016. The ecology and adaptive evolution of influenza A interspecies transmission.  
**Influenza and Other Respiratory Viruses. Under Review**
6. Sung C, Wei Y, Watanabe S, Lee HS, Khoo YM, Fan L, Rathore APS, Chan K W-K, Choy MM, Kamaraj US, Sessions OM, Aw P, Sessions PF, Lee B, Connolly JE, Hibberd ML, **Vijaykrishna D**, Wijaya L, Ooi EE, Low J G-H, and Vasudevan SG. 2016. Extended evaluation of virological, immunological and pharmacokinetic endpoints of CELADEN: a randomized controlled trial of celgosivir in dengue fever patients.  
**PLoS NTD Under Review**
7. Quiñones-Parra S, Clemens B, Wang Z, Croom HA, Kedzierski L, McVernon J, **Vijaykrishna D**, Kedzierska K. A role of influenza exposure history in determining pandemic susceptibility and CD8+ T cell responses.  
**J Virol Under Review**
8. Donato C, Hoi LT, Hoa NT, Hoa TM, Duyet LV, Ngan TTD, Kinh NV, Trung NV, **Vijaykrishna D**. Genetic characteristics of Enterovirus 71 strains circulating in Vietnam in 2012.  
**Virology Under Review**

9. Barr IG, **Vijaykrishna D**, Sullivan S. 2016. Differential age susceptibility to influenza B/Victoria lineage viruses in the 2015 Australian influenza season. **Eurosurveillance** 21(4):pii=30118.
10. Su YCF, Bahl J, Joseph U, Butt KM, Koay ESC, Oon LLE, Barr IG, **Vijaykrishna D**, Smith GJD. 2015. Phylodynamics of H1N1/2009 influenza reveals the transition from host adaptation to immune-driven selection. **Nature Communications** 6, 7952.
11. Mendenhall IH, Smith GJD, **Vijaykrishna D**<sup>#</sup>. 2015. Ecological drivers of virus evolution: Astrovirus as a case study. **Journal of Virology** 89(14):6978-81.
12. WHO/OIE/FAO H5N1 Evolution Working Group. Donis RO, GJD Smith, ML Perdue, IH Brown, H Chen, RAM Fouchier, Y Kawaoka, J Mackenzie, Y Shu, I Capua, NJ Cox, T Davis, R Garten, Y Guan, E Mumford, CA Russell, C Smith, D Smith, **D Vijaykrishna**. 2015. Nomenclature updates resulting from the evolution of avian influenza A(H5) virus clades 2.1.3.2a, 2.2.1, and 2.3.4 during 2013–2014. **Influenza and Other Respiratory Viruses** 9(5):271-6.
13. **Vijaykrishna D**<sup>#</sup>, Mukherji R, Smith GJD. 2015. RNA virus reassortment: An evolutionary mechanism of immune evasion and host jumps. **PLoS Pathogens** 11(7):e1004902.
14. **Vijaykrishna D**<sup>#</sup>, Holmes EC, Joseph U, Fourment M, Su YCF, Halpin R, Chuen RLT, Deng Y-M, Gunalan V, Lin X, Stockwell T, Federova NB, Zhou B, Spirason N, Kühnert D, Veronika B, Stadler T, Costa A-M, Dwyer S, Huang QS, Jennings L, Rawlinson W, Sullivan S, Hurt A, Maurer-Stroh S, Wentworth D, Smith GJD, Barr IG. 2015. The contrasting phylodynamics of influenza B viruses. **eLife** 4:e05055.
15. Joseph U, Linster M, Suzuki Y, Kraus S, Rebecca H, **Vijaykrishna D**, Bestebroer T, Maurer-Stroh S, Webby R, Wentworth D, Fouchier RA, Bahl J, Smith GJD, members of the CEIRS H2N2 Working Group. 2015. Adaptation of pandemic H2N2 influenza A viruses in humans. **Journal of Virology** 89: 2442–2447.
16. Mishra N, Rajukumar K, Pateriya A, Kumar M, Dubey P, Behera SP, Verma A, Bhardwaj P, Kulkarni DD, **Vijaykrishna D**, Reddy ND. 2014. Identification and molecular characterization of novel and divergent Hobi-like pestiviruses from naturally infected cattle in India. **Veterinary Microbiology** 174: 239–246.
17. Perera HKK, **Vijaykrishna D**, Jayamaha J, Wickramasinghe G, Cheung CL, Premarathna AG, Yeung MF, Poon LLM, Perera AKC, Barr IG, Guan Y, Peiris JSM. 2014. Molecular epidemiology of influenza A H1N1 pandemic 2009 virus in humans and swine in Sri Lanka. **EID** 20: 2080–2084.
18. Hurt AC, **Vijaykrishna D**, Butler J, Baas C, de la Fuente MS, Medina-Vogel G, Olsen B, Kelso A, Barr IG, Gonzalez-Acuna D. 2014. Detection of Evolutionarily Distinct Avian Influenza A Viruses in Antarctica. **MBio** 5: e01098–14.
19. Quiñones-Parra S, Grant EJ, Loh L, Nguyen THO, Campbell K-A, Tong S, Miller A, Doherty PC, **Vijaykrishna D**, Rossjohn J, Gras S, Kedzierska. 2014. Preexisting CD8<sup>+</sup> T cell immunity to the novel H7N9 influenza A virus varies across ethnicities. **Proceedings of the National Academy of Science USA** 111: 1049–1054.
20. Bahl J, Besselaar T, Brown IH, Capua I, Cattoli G, Chen H, Cox N, Claes F, Dauphin G, Davis CT, ... Smith D, Smith GJD, Chu Y, Tashiro M, Shepard S, Suarez D, **Vijaykrishna D**, Webby R, Webster RG, Wong F. 2014. Revised and updated nomenclature for highly pathogenic avian influenza A (H5N1) viruses. 8: 384–388. **Influenza and other Respiratory Viruses**
21. **Vijaykrishna D**<sup>#</sup>, Deng Y-M, Su YCF, Fourment M, Iannello P, Arzey GG, Arzey KE, Kirkland PD, Warner S, O'Riley K, Barr IG, Smith GJD, Hurt AC. 2013. The recent establishment of North American H10 lineage influenza viruses in Australian wild birds and the evolutionary dynamics of Australian avian influenza viruses. **Journal of Virology** 87: 10182–10189.
22. Strelhoff C, **Vijaykrishna D**, Riley S, Guan Y, Peiris, JSM, Lloyd-Smith. 2013. Inferring patterns of influenza transmission in swine from multiple streams of surveillance data. **Proceedings of the Royal Society B** 280: 20130872.

23. Khan MA, Ellis EM, Tissera HA, Alvi MY, Rahman F, Masud F, Chow A, Howe S, **Vijaykrishna D**, Ellis BR, Gubler DJ. 2013. Emergence and diversification of Dengue genotype IV in Pakistan.  
**PLoS ONE** 8: e56391.
24. Abao LNB, Jamsransuren D, Bui VN, Ngo LH, Trinh DQ, Yamaguchi E, **Vijaykrishna D**, Runstadler J, Ogawa H, Imai K. 2013. Surveillance and characterization of avian influenza viruses from migratory water birds in eastern Hokkaido, the northern part of Japan, 2009–2010.  
**Virus Genes** 46: 323–329.
25. Boni MF, Smith GJD, Holmes EC & **Vijaykrishna D**<sup>#</sup>. 2012. No evidence for intra-segment recombination of 2009 H1N1 influenza virus in swine.  
**Gene** 494: 242–245.
26. WHO/OIE/FAO H5N1 Evolution Working Group. 2012. Continued evolution of highly pathogenic avian influenza A (H5N1): updated nomenclature.  
**Influenza and other Respiratory Viruses** 6: 1–5.
27. Bahl J, Nelson M, Chan K, Chen R, **Vijaykrishna D**, Halpin R, Stockwell T, Lin X, Wentworth D, Ghedin E, Guan Y, Peiris JSM, Riley S, Rambaut A, Holmes EC & Smith GJD. 2011. Temporally structured metapopulation dynamics and persistence of influenza A H3N2 virus in humans.  
**Proceedings of the National Academy of Science USA** 108: 16359–19364.
28. **Vijaykrishna D**, Smith GJD, Pybus OG, Zhuhua C, Bhat S, Poon LLM, Riley S, Bahl J, Ma SK, Cheung CL, Perera RAPM, Chen H, Shortridge KF, Webby RJ, Webster RG, Guan Y & Peiris JSM. 2011. Long-term evolution and transmission dynamics of swine influenza A viruses.  
**Nature** 473: 519–522.
29. Smith GJD & **Vijaykrishna D**. 2011. An update of H5N1 viruses: Are they still a threat to Australia?  
**Microbiology Australia** 32: 42–43.
30. Bahl J\*, Lau M\*, Smith GJD\*, **Vijaykrishna D**\*, Cary S, Lacap D, Lee C, Papke R, Warren-Rhodes K, Wong F, McKay C & Pointing SB. 2011. Ancient origins determine global biogeography of hot and cold desert cyanobacteria.  
**Nature Communications** 2: 163.
31. Ducatez M, Bahl J, Griffin Y, Stugger-Rosser E, Frank J, Barman S, **Vijaykrishna D**, Webb A, Guan Y, Webster R, Smith GJD & Webby R. 2011. Feasibility of reconstructed ancestral H5N1 influenza viruses for cross-clade protective vaccine development.  
**Proceedings of the National Academy of Science USA** 108: 349–354.
32. Hansbro PM, Warner S, Tracey JP, Arzey KE, Selleck P, O’Riley K, Beckett E, Bunn C, Kirkland PD, **Vijaykrishna D**, Olsen B & Hurt AC. 2010. Surveillance and analysis of avian influenza viruses, Australia.  
**Emerging Infectious Diseases** 16: 1896–1904.
33. Poon LLM, Mak PWY, Li OTW, Chan KH, Cheung CL, Ma ES, Yen HL, **Vijaykrishna D**, Guan Y & Peiris JSM. 2010. Rapid detection of reassortment of pandemic influenza H1N1.  
**Clinical Chemistry** 56: 1340–1344.
34. **Vijaykrishna D**, Poon LLM, Zhu HC, Ma SK, Li OTW, Cheung CL, Smith GJD, Peiris JSM, Guan Y & 2010. Reassortment of pandemic H1N1/2009 viruses in swine.  
**Science** 328: 1529.
35. Huang K, Bahl J, Fan XH, **Vijaykrishna D**, Cheung CL, Webby RJ, Webster RG, Chen H, Smith GJD, Peiris JSM & Guan Y. 2010. Establishment of an H6N2 influenza virus lineage in domestic ducks in southern China.  
**Journal of Virology** 84: 6978–6986.
36. Guan Y, **Vijaykrishna D**, Bahl J, Huachen Z, Wang J & Smith GJD. 2010. The emergence of pandemic influenza viruses.  
**Protein & Cell** 1: 9–13.
37. Smith GJD\*, Bahl J\*, **Vijaykrishna D**\*, Zhang JX, Poon LLM, Chen H, Webster RG, Peiris JSM, Guan Y. 2009. Dating the emergence of pandemic influenza viruses.  
**Proceedings of the National Academy of Science USA** 106: 11709–11712.
38. Smith GJD\*, **Vijaykrishna D**\*, Bahl J\*, Lycett SJ\*, Worobey M\*, Pybus OGP\*, Ma SK, Cheung CL, Raghvani J, Bhatt, S, Peiris JSM, Guan Y, Rambaut A\*. 2009. Origins and evolutionary

genomics of the 2009 swine-origin H1N1 influenza A epidemic.  
**Nature** 459: 1122–1126.

- Fast Breaking Paper in the field of Clinical Medicine, Thomson Reuters Essential Science Indicators
- “2009–2010 Faculty Outstanding Research Award”, The University of Hong Kong

*During  
Postdoc*

39. Bahl J, **Vijaykrishna D**, Holmes EC, Smith GJD, Guan Y. 2009. Gene flow and competitive exclusion of avian influenza A virus.  
**Virology** 390: 289–297.
40. Zhu HC, Chu DKW, Liu W, Dong BQ, Zhang SY, Zhang JX, Li LF, **Vijaykrishna D**, Smith GJD, Chen H, Poon LLM, Peiris JSM, Guan Y. 2009. Detection of diverse astroviruses from bats in China.  
**Journal of General Virology** 90: 883–887.
41. WHO/OIE/FAO H5N1 Evolution Working Group. Donis RO, GJD Smith, ML Perdue, IH Brown, H Chen, RAM Fouchier, Y Kawaoka, J Mackenzie, Y Shu, I Capua, NJ Cox, T Davis, R Garten, Y Guan, E Mumford, CA Russell, C Smith, D Smith, **D Vijaykrishna**. 2009. Continuing progress towards a unified nomenclature for the highly pathogenic H5N1 avian influenza viruses: divergence of clade 2.2 viruses.  
**Influenza and Other Respiratory Viruses** 3: 59–62.
42. Smith GJD\*, **Vijaykrishna D\***, Ellis TM, Dyrting KC, Leung YHC, Bahl J, Wong CW, Kai H, Chow MKW, Duan L, Chan ASL, Zhang LJ, Chen H, Luk GSM, Peiris JSM, Guan Y. 2009. Characterization of Avian Influenza Viruses A (H5N1) from Wild Birds, Hong Kong, 2004–2008.  
**Emerging Infectious Diseases** 15: 402–407.
43. **Vijaykrishna D**, Bahl J, Riley S, Duan L, Zhang J, Chen H, Peiris JSM, Smith GJD, Guan Y. 2008. Evolutionary dynamics and emergence of panzootic H5N1 influenza viruses.  
**PLoS Pathogens** 4: e1000161.
44. Duan L, Bahl J, Smith GJD, Wang J, **Vijaykrishna D**, Zhang LJ, Zhang JX, Li KS, Fan XH, Cheung CL, Huang K, Poon LLM, Shortridge KF, Webster RG, Peiris JSM, Chen H, Guan Y. 2008. The development and genetic diversity of H5N1 influenza virus in China, 1996–2006.  
**Virology** 380: 243–254.
45. WHO/OIE/FAO H5N1 Evolution Working Group. (Donis RO, GJD Smith, ML Perdue, IH Brown, H Chen, RAM Fouchier, Y Kawaoka, J Mackenzie, Y Shu, I Capua, NJ Cox, T Davis, R Garten, Y Guan, E Mumford, CA Russell, C Smith, D Smith, **D Vijaykrishna**.) 2008. Towards a unified nomenclature for highly pathogenic avian influenza H5N1 viruses.  
**Emerging Infectious Diseases** 14: e1.
46. Nguyen TD, Nguyen TV, **Vijaykrishna D**, Guan Y, Peiris JSM, Smith GJD. 2008. Multiple sublineages of influenza A (H5N1) viruses in Vietnam (2006–2007).  
**Emerging Infectious Diseases** 14: 632–636.
47. Wang J, **Vijaykrishna D**, Duan L, Bahl J, Zhang JX, Webster RG, Peiris JSM, Chen H, Smith GJD, Guan Y. 2008. Identification of the progenitors of Indonesia and Vietnam avian influenza A (H5N1) viruses from southern China.  
**Journal of Virology** 82: 3405–3414.
48. Xu KM, Smith GJD, Bahl J, Duan L, Tai H, **Vijaykrishna D**, Wang J, Zhang JX, Li KS, Webster RG, Chen H, Peiris JSM, Guan Y. 2007. The genesis and evolution of H9N2 influenza viruses in poultry from southern China, 2000 to 2005.  
**Journal of Virology** 81: 10389–10401.
49. Cheung CL, **Vijaykrishna D**, Smith GJD, Fan XH, Zhang JX, Bahl J, Duan L, Huang K, Tai H, Wang J, Poon LLM, Peiris JSM, Chen H, Guan Y. 2007. Establishment of influenza A virus (H6N1) in minor poultry in southern China.  
**Journal of Virology** 81: 10402–10412.
50. Duan L, Campitelli L, Fan XH, Leung CYH, **Vijaykrishna D**, Zhang JX, Donatelli I, Delogu M, Li KS, Foni E, Chiapponi C, Wu WL, Kai H, Webster RG, Shortridge KF, Peiris JSM, Smith GJD, Chen H, Guan Y. 2007. Characterization of low pathogenic H5 subtype influenza viruses from Eurasia: Implications for the origin of highly pathogenic H5N1 viruses.  
**Journal of Virology** 81: 7529–7539.
51. Dong BQ\*, Liu W\*, Fan XH\*, **Vijaykrishna D\***, Tang XC, Gao F, Li LF, Li GJ, Zhang JX, Yang LQ, Poon LLM, Zhang SY, Peiris JSM, Smith GJD, Chen H, Guan Y. 2007. Detection of a novel and highly divergent coronavirus from Asian leopard cat and Chinese ferret badger in southern China.  
**Journal of Virology** 81: 6920–6926.

52. **Vijaykrishna D**, Smith GJD, Zhang JX, Peiris JSM, Guan Y. 2007. Evolutionary insights into the Ecology of Coronaviruses.  
**Journal of Virology** 81: 4012–4020.
53. Smith GJD, Fan XH, Wang J, Li KS, Qin K, Zhang JX, **Vijaykrishna D**, Cheung CL, Huang K, Rayner JM, Peiris JSM, Chen H, Webster RG, Guan Y. 2006. Emergence and predominance of an H5N1 influenza variant in China.  
**Proceedings of the National Academy of Science USA** 103: 16936–16941.
54. Tang XC, Zhang JX, Zhang SY, Wang P, Fan XH, Li LF, Li G, Dong BQ, Liu W, Cheung CL, Xu KM, Song WJ, **Vijaykrishna D**, Poon LLM, Peiris JSM, Smith GJD, Chen H, Guan Y. 2006. Prevalence and genetic diversity of coronaviruses in bats from China.  
**Journal of Virology** 80: 7481–7490.
55. Smith GJD, Naipospos TSP, Nguyen TD, de Jong MD, **Vijaykrishna D**, Usman TB, Hassan SS, Nguyen TV, Dao TV, Bui NA, Leung YHC, Cheung CL, Rayner JM, Zhang JX, Zhang LJ, Poon LLM, Li KS, Nguyen VC, Hien TT, Farrar J, Chen H, Webster RG, Peiris JSM, Guan Y. 2006. Evolution and adaptation of H5N1 influenza virus in avian and human hosts in Indonesia and Vietnam.  
**Virology** 350: 258–268.
56. Chen H, Smith GJD, Li KS, Wang J, Fan XF, Rayner JM, **Vijaykrishna D**, Zhang JX, Zhang LJ, Guo CT, Cheung CL, Xu KM, Duan L, Huang K, Qin K, Leung YHC, Wu WL, Lu HR, Chen Y, Xia NS, Naipospos TSP, Yuen KY, Hassan SS, Bahri S, Nguyen TD, Webster RG, Peiris JSM, Guan Y. 2006. Establishment of multiple sublineages of H5N1 influenza virus in Asia – implications for pandemic control.  
**Proceedings of the National Academy of Science USA** 108: 2845–2850.
57. Thongkantha S, Jeewon R, **Vijaykrishna D**, Lumyong S, McKenzie EHC & Hyde KD. 2009. Molecular phylogeny of *Magnaporthaceae* (*Sordariomycetes*) with a new species *Ophioceras chiandaoensis* from *Dracaena loureiri* in Thailand.  
**Fungal Diversity** 34: 155–171.
58. Promputtha I, Lumyong S, Vijaykrishna D, McKenzie EHC, Hyde KD, Jeewon R. 2007. A phylogenetic evaluation of whether endophytes become saprotrophs at host senescence.  
**Microbial Ecology** 53: 579–590.
59. **Vijaykrishna D<sup>#</sup>**, Jeewon R, Hyde KD. 2006. Molecular taxonomy, origins and evolution of freshwater ascomycetes.  
**Fungal Diversity** 23: 367–406.
60. Kodsueb R, **Vijaykrishna D**, Aptroot A, Lumyong S, McKenzie EHC, Hyde KD, Jeewon R. 2006. The family *Pleosporaceae*: intergeneric relationships and phylogenetic perspectives based on sequence analyses of partial 28S rDNA.  
**Mycologia** 98: 571–583.
61. **Vijaykrishna D<sup>#</sup>**, Jeewon R, Hyde KD. 2006. Inter- and intra stream variation of lignicolous freshwater fungi in tropical Australia.  
**Fungal Diversity** 21: 203–224.
62. Kodsueb R, Jeewon R, **Vijaykrishna D**, Hyde KD, McKenzie EHC, Lumyong S. 2006. Systematic revision of *Tubeufiaceae* based on morphological and molecular data.  
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Arising from  
PhD studies

Arising from  
MPhil studies

Book Chapter

68. Smith GJD, Bahl J, **Vijaykrishna D** (2012). Genetic analysis of influenza. **Methods in Molecular Biology** 865: 207–227.
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72. **Vijaykrishna D**, Smith GJD, Bahl J, Wang J, Webster RG, Guan Y. 2007. Dating the emergence of influenza A (H5N1) virus. *Proceedings of the Options for the Control of Influenza VI*, June 17–23, 2007 Toronto, Ontario, Canada.
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<b>CONFERENCE</b>	Options IX for the Control of influenza, Chicago (invited)	2016
	11 <sup>th</sup> Australian Influenza Symposium, Geelong (Invited)	2015
	Systems Biology Conference, Melbourne (Keynote)	2015
	7 <sup>th</sup> Orthomyxovirus Conference, Tololouse (Scientific Committee)	2015
	10 <sup>th</sup> Australian Influenza Symposium, Melbourne (Invited)	2014
	High Security Animal Disease Laboratory, Bhopal, India (Invited)	2013
	Duke University, Durham, NC, USA (Invited)	2013
	EID, Duke-NUS Graduate Medical School, Singapore (Invited)	2013
	International Conference on Dengue and EID, Singapore (Invited)	2012
	6 <sup>th</sup> DITAN Conference on Infectious Diseases, Beijing, China (Keynote)	2012
	ICAV 10th International Symposium. ICGB, New Delhi, India (Keynote)	2012
	XIII International Symposium on Respiratory Viral Infections. Rome, Italy (Invited)	2011
	4 <sup>th</sup> DITAN Conference on Infectious Diseases, Beijing, China (Invited)	2010
	Australian animal laboratory, CSIRO, Geelong, Australia (Invited)	2009
	Research Seminars of the Area of Excellence Scheme, HKU, Hong Kong (Invited)	2009
	Center for Asian Studies, HKU, Hong Kong (Plenary)	2009
	Indo-US Regional influenza Surveillance Discussion Group Meeting. Hyd, India (Invited)	2008
	Indian Virological Society, New Delhi, India	2007

**ADVISING**

<i>Visiting scientists</i>	Asst. Prof. Mahesh Moorthy, Christian Medical College Hospital, Vellore	2011–
<i>Postdoctoral Fellows</i>	Celeste Donato (PhD from LaTrobe University),	2014–
	Umesh Ghoshdastider (PhD from Goethe University, Frankfurt)	2015–
	Ian Mendenhall (PhD from Tulane)	2010–
<i>Doctoral</i>	Reshmi Mukherji (PhD), 2013– (main advisor)	2011–2013
	Udayan Joseph (MD and PhD), 2013– (informal advisor)	2011–2016
	Ayesa Syenina (PhD), 2016– (Chair of Thesis advisory committee)	2013
<i>Undergraduate</i>	Yen Yee Wee, Nanyang Technical University, (Final Year Project)	2012–2013
	Yixiu Chin, National University of Singapore, (Honors Theses)	2013–2014



Zi Ying Tay, Nanyang Technical University, (Final Year Project)	2013–2014
Loh Hui Ting Stephanie, NUS 2014 (Undergrad Research Opportunities Programme)	2014
Lan Yingjie, National University of Singapore (Final Year Honours Project)	2014–2015
Lian Weixiang, National University of Singapore (Final Year Honours Project)	2015–
Vithya Shankar, National University of Singapore (Final Year Honours Project)	2016–

**EDITORIAL**

<i>Academic Editor</i>	Infection, Genetics and Evolution (since April 2015) PLoS ONE (2009–2014)
<i>Reviewed papers</i>	Archives of Virology, Antiviral Research, BMC Microbiology, eLIFE, Emerging Infectious Diseases, Infection Genetics and Evolution, International Journal of Infectious Diseases, Journal of General Virology, Journal of Virology, Microbiology Australia, Molecular Biology and Evolution, Nature Reviews Microbiology, Nature Scientific Reports, PLoS Computational Biology, PLoS ONE, RNA journal, Transboundary Emerging Diseases, Virology, Virus Genes.