

Gytis Dudas

Curriculum Vitae

✉ gytisdudas@gmail.com

Postgraduate career

- 2016– **Mahan Postdoctoral Fellowship**, *Fred Hutchinson Cancer Research Center*, Seattle, WA, USA, Mentor: Trevor Bedford.

Education

- 2011–2016 **Doctor of Philosophy, "Inference of Evolutionary and Ecological Processes from Reticulate Evolution in RNA Viruses"**, *University of Edinburgh*, Edinburgh, UK.
Supervisor: Prof. Andrew Rambaut, secondary supervisor: Prof. Andrew Leigh-Brown; Thesis examiners: Prof. Oliver G Pybus, Prof. Paul Sharp.
- 2007–2011 **BSc in Biological Sciences with Honours in Evolutionary Biology**, *University of Edinburgh*, Edinburgh, UK.
First Class, Ashworth Prize and Class Medal

Publications

- 2017 [¹Grubaugh ND, Ladner JT, Moritz KUG, Dudas G*, Tan AL, Gangavarapu K, Wiley MR, White S, Thézé J], ..., Sabeti PC, Gillis LD, Michael SF, Bedford T, Pybus OG, Isern S, Palacios G, Andersen KG, *Multiple introductions of Zika virus into the United States revealed through genomic epidemiology*, *Nature*, accepted.
- 2017 Dudas G*, Carvalho LM, Bedford T, Tatem AJ, Baele G, Faria N, Park D, Ladner J, Arias A, ..., Suchard M, Lemey P, Rambaut A, *Virus genomes reveal the factors that spread and sustained the West African Ebola epidemic*, *Nature* 544(7650): 309-315.
- 2016 Holmes EC, Dudas G*, Rambaut A, Andersen KG, *The Evolution of Ebola virus: Insights from the 2013-2016 Epidemic*, *Nature* 538(7624): 193-200.
- 2016 Whitmer SLM, Albariño C, Shepard SS, Dudas G*, ..., Nichol ST, Ströher U, *Preliminary Evaluation of the Effect of Investigational Ebola Virus Disease Treatments on Viral Genome Sequences*, *Journal of Infectious Diseases*:jiw177.
- 2016 Rambaut A, Dudas G*, Carvalho LM, Park DJ, Yozwiak NL, Holmes EC, Andersen KG, *Comment on "Mutation rate and genotype variation of Ebola virus from Mali case sequences"*, *Science* 353(6300):658-658.
- 2016 Arias A, Watson SJ, Asogun D, ..., Dudas G*, ..., Pybus OG, Rambaut A, Kellam P, Goodfellow I, Cotten M, *Rapid outbreak sequencing of Ebola virus in Sierra Leone identifies transmission chains linked to sporadic cases*, *Virus Evolution* 2 (1):vew016.

¹[] denotes joint first authorship

- 2016 **Lewis NS, Russell CA, Langat P, ..., Dudas G*, ..., Watson SJ, Brown IH, Vincent AL**, *The global antigenic diversity of swine influenza A viruses*, eLife 5: e12217.
- 2016 **Quick J, Loman NJ, Duraffour S, Simpson JT, Severi E, Cowley L ..., Dudas G*, ..., Günther S, Carroll MW**, *Real-time, portable genome sequencing for Ebola surveillance*, Nature 530(7589): 228-232.
- 2016 **Dudas G*, Rambaut A**, *MERS-CoV recombination: implications about the reservoir and potential for adaptation*, Virus Evolution 2(1):vev023.
- 2015 **Ladner JT, Wiley MR, Mate S, Dudas G*, ... Palacios G**, *Evolution and Spread of Ebola Virus in Liberia, 2014-2015*, Cell Host & Microbe 18(6):659-669.
- 2015 **[Park DJ, Dudas G*, Wohl S, Goba A, Whitmer SLM], ..., Sabeti PC**, *Ebola Virus Epidemiology, Transmission, and Evolution during Seven Months in Sierra Leone*, Cell 161(7):1516-1526.
- 2015 **Carroll MW, Matthews DA, Hiscox JA, ... Dudas G*, ... Günther S**, *Temporal and spatial analysis of the 2014-2015 Ebola virus outbreak in West Africa*, Nature 524(7563):97-101.
- 2015 **Dudas G*, Obbard DJ**, *Are arthropods at the heart of virus evolution?*, eLife 4: e06837.
- 2015 **Dudas G*, Bedford T, Lycett S, Rambaut A**, *Reassortment between Influenza B Lineages and the Emergence of a Coadapted PB1–PB2–HA Gene Complex*, Molecular Biology and Evolution 32(1):162-172.
- 2014 **Obbard DJ, Dudas G***, *The genetics of host–virus coevolution in invertebrates*, Current Opinion in Virology 8:73-78.
- 2014 **Gire SK, Goba A, Andersen KG, ... Dudas G*, ... Sabeti PC**, *Genomic surveillance elucidates Ebola virus origin and transmission during the 2014 outbreak*, Science 345(6202):1369-1372.
- 2014 **Dudas G*, Rambaut A**, *Phylogenetic analysis of Guinea 2014 EBOV Ebolavirus outbreak*, PLOS Currents Outbreaks 6.
- 2013 **Bedford T, Suchard MA, Lemey P, Dudas G*, Gregory V, ..., Rambaut A**, *Integrating influenza antigenic dynamics with molecular evolution*, Elife 3: e01914.

Professional service

Ad hoc referee PLoS Currents Outbreaks, Molecular Biology and Evolution, eLife, PeerJ, Proceedings of the Royal Society B, PLoS Pathogens, Virology Journal.

Social media editor Virus Evolution.

Presentations

- Combi Seminar, Seattle, 2016 Oral presentation, "Virus genomes reveal the factors that spread and sustained the West African Ebola epidemic"
- Virus Genomics and Evolution, Cambridge, 2016 Oral presentation, "Pattern and determinants of the geographic dissemination of Ebola virus in West Africa 2013-2016"

- University of Zurich, 2015 Invited talk, "Lessons about virus biology from molecular clocks"
- SMBE 2015, Vienna Oral presentation, "Population genetics of Ebola virus in West Africa"
- Forecasting Evolution?, Lisbon, 2015 Oral presentation, "Population genetics of Ebola virus in West Africa"
- Phyloseminar, 2015 Invited talk, "Ebola virus epidemiology, transmission, and viral evolution from four months of sequencing in Sierra Leone"
- FHCRC, 2015 Invited talk, "Reticulate evolution: unlikely lessons about RNA viruses and their hosts"
- University of Oxford, 2014 Invited talk, "Phylogenetics of co-circulating influenza virus lineages"
- Imperial College London, 2014 Invited talk, "Phylogenetics of co-circulating influenza virus lineages"
- Epidemics 4, Amsterdam, 2013 Oral presentation, "Inter-subtype reassortment patterns in influenza B reveal selective maintenance of co-reassorting segment complexes"
- Popgroup 46, Glasgow, 2012 Oral presentation, "Antagonistic interactions between co-circulating subtypes of human influenza viruses"
- SMBE 2012, Dublin Poster, "Phylogenetics of influenza viruses before, during and after the 2009 swine flu pandemic"

Awards

- 2015 SMBE Young Investigator Travel Award to attend the SMBE 2015 meeting in Vienna.
- 2015 Wellcome Trust Travel Grant to attend the "Forecasting Evolution?" meeting in Lisbon.

Workshops

- University of Birmingham, 2015 **"PoreCamp: A bootcamp to learn about operating the Oxford Nanopore MinION"**, attendee.
- University of Zurich, 2015 **"Temporal tree calibration in BEAST"**, organiser.

Outreach

- The Washington Post **The March for Science could save lives**, *daily newspaper*, editorial covering research.
2017 April 19
- GenomeWeb **Ebola Genomes Help Reconstruct Virus' Spread During West African Outbreak**, *online science newsletter*, interview.
2017 April 12

- Hutch News **A big-picture look at the world's worst Ebola epidemic**, *Fred Hutchinson Cancer Research Center newsletter*, interview.
2017 April 12
- BioPOD **April 2015 episode**, *podcast*, interview.
2015 April
- Eu:Sci podcast **Episode 101**, *podcast*, interview.
2014 November 12
- The Scotsman **Edinburgh plays a part in solving Ebola crisis**, *Local newspaper*, interview.
2014 October 31
- NERC news **NERC-funded student helps analyse Ebola genome sequence**, *Natural Environment Research Council newsletter*, interview.
2014 September 05
- SciDev.net **Ongoing Ebola outbreak highlights research shortcomings**, *online science news portal*, interview.
2014 June 04