

Gytis Dudas

Curriculum Vitae

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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

- 2016 **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*, bioRxiv:071779.
- 2016 **Holmes EC, Dudas G, Rambaut A, Andersen KG**, *The Evolution of Ebola virus: Insights from the 2013–2016 Epidemic*, *Nature Reviews*, in press.
- 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.
- 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, Durauffour 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, et al.**, *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.
- Social media editor** *Virus Evolution*.

Presentations

- 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.org, 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, "Phylodynamics of co-circulating influenza virus lineages"
- Imperial College London, 2014 Invited talk, "Phylodynamics 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, "Phylodynamics 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

- 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