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PUBLICATIONS

Journal Articles

- Jr., C. W. Carter et al. (2022). "Multidimensional phylogenetic metrics identify Class I aminoacyl-tRNA synthetase evolutionary mosaicism and inter-modular coupling". In: *International Journal of Molecular Sciences* 23 (1520). URL: <https://doi.org/10.3390/ijms23031520>.
- Drummond, A. J. and A. Poppinga (2021). "Bayesian inference of the climbing grade scale". In: *arXiv*. URL: <https://doi.org/10.48550/arXiv.2111.08140>.
- Bouckaert, R. et al. (2019). "BEAST 2.5: An Advanced Software Platform for Bayesian Evolutionary Analysis". In: *PLoS Computational Biology* 15 (4). URL: <https://www.doi.org/10.1371/journal.pcbi.1006650>.
- Poppinga, A., J. W. Demastes, et al. (2019). "Host-parasite associations of the *Cratogeomys fumosus* species group and their chewing lice, *Geomydoecus*". In: *Therya* 10 (2). URL: <https://www.doi.org/10.12933/therya-19-739%20ISSN%202007-3364>.
- Wasef, S. et al. (2019). "Mitogenomic diversity in sacred ibis mummies sheds light on early Egyptian practices". In: *PLoS One* 14 (11). URL: <https://www.doi.org/10.1371/journal.pone.0223964>.
- Poppinga, A., T. Vaughan, T. Stadler, et al. (2015). "Inferring epidemiological dynamics with Bayesian coalescent inference: The merits of deterministic and stochastic models". In: *Genetics* 199 (2), pp. 595–607. URL: <https://www.doi.org/10.1534/genetics.114.172791>.
- Vaughan, T. et al. (2014). "Efficient Bayesian phylogenetic inference under the structured coalescent". In: *Bioinformatics* 30 (16), pp. 2272–2279. URL: <https://www.doi.org/10.1093/bioinformatics/btu201>.

Conference Proceedings

- Poppinga, A., Ant Poole, et al. (2019). "Resolving protein families using structural phylogenetics". In: *AMMA Molecular Modelling Conference*. Bintan, Indonesia.
- Poppinga, A., R. Bouckaert, and P. Wills (2018a). "A new model of amino acid substitution using iteratively added exchangeability rates to improve phylogenetic inference of aminoacyl-tRNA synthetases". In: *Te Ao Marama (Centre for Fundamental Inquiry) Meeting*. The Royal New Zealand Yacht Squadron, Auckland.
- – (2018b). "Aminoacyl-tRNA synthetases: Protein structures and the dawn of the genetic code". In: *Quantitative and Computational Chemistry Student Conference*. Kioloa, Australia.
- Poppinga, A. and P. Wills (2016). "The search for simple systems: Minimal genetic information and autocatalytic sets". In: *New Zealand Astrobiology Workshop*. Kaikoura, New Zealand.
- Poppinga, A., C. W. Carter Jr., et al. (2015). "Complex phylogeny of aminoacyl-tRNA synthetases". In: *European Society for Evolutionary Biology Congress*. Lausanne, Switzerland.
- Poppinga, A., T. Vaughan, D. Welch, et al. (2015). "Stochastic population dynamics in Bayesian epidemic parameter inference with the coalescent Susceptible-Infected-Removed (SIR) model". In: *Annual Meeting of the Society for Molecular Biology and Evolution*. Vienna, Austria.