
BEATRIZ VICOSO

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IST Austria – Assistant professor (2015).

UC Berkeley - Postdoctoral researcher under Prof. Doris Bachtrog (2009 – 2014).

EDUCATION

University of Edinburgh, UK – PhD in Evolutionary Genomics, supervised by Prof. Brian Charlesworth (2009).

Federal University of Rio de Janeiro, Brazil – Bachelor’s Degree in Genetics (2003).

ACADEMIC ACTIVITIES

Peer Reviewing – Reviewed articles for PLoS Biology, PLoS Genetics, Evolution, Molecular Biology and Evolution, Genome Biology and Evolution, Heredity, Journal of Molecular Evolution, Proceedings of the Royal Society B. Review editor for Frontiers in Evolutionary and Population Genetics.

Mentoring – Supervised undergraduate honors thesis by Yulia Zektser, entitled “Assessing dosage compensation in pygmy rattlesnake” (June 2011 – October 2012). Co-supervised final internship and report by master’s student Shivani Mahajan on dosage compensation in snakes and transitions in dipteran sex-chromosomes (March – August 2012). Took part in the SMBE 2013 Undergraduate Mentoring Program as a mentor. Currently supervising undergraduate project of Yajing Xiong, comparing the timelines of early embryonic development of Drosophila and Sarcophaga flies.

Teaching – Guest lecturer for the undergraduate courses “Introduction to Molecular evolution” (January 2012), and “Human Genetics and Genomics” (September 2013). Volunteer teaching assistant for Berkeley High School outreach program (March 2013).

FUNDING AND AWARDS

DeLill Nasser travel award from the Genetics Society of America (2011).

PhD scholarship from the Portuguese Foundation for Science and Technology, administered through the GABBA graduate program in areas of basic and applied biology (2003-2007).

Introduction to Scientific Research Scholarship from the Brazilian National Counsel of Technological and Scientific Development (2001-2003).

LIST OF PUBLICATIONS

- #1. **Vicoso, B.***, Emerson, J.J.*, Mahajan, S., Zektser, Y., and Bachtrog, D. (2013) Comparative sex chromosome genomics in snakes: differentiation, evolutionary strata, and lack of dosage compensation. **PLoS Biology** 11 (8), e1001643.. * *Co-first authors*.
- #2. **Vicoso, B.** and Bachtrog, D. (2013) Reversal of an ancient sex chromosome to an autosome in *Drosophila*. (2013) **Nature** 499(7458):332-335.
- #3. **Vicoso, B.**, Kaiser, V. and Bachtrog, D. (2013) Sex-biased gene expression at homomorphic sex chromosomes in emus, and its implication for sex chromosome evolution. (2013) **Proceedings of the National Academy of Sciences** 110(16):6453-6458.
4. Zhou, Q., Zhu, H., Huang, Q., Zhao, L., Zhang, G., Roy, S.W., **B Vicoso, et al.** (2012) Deciphering neo-sex and B chromosome evolution by the draft genome of *Drosophila albomicans*. **BMC Genomics** 13(1):109.
5. **Vicoso, B.** and Bachtrog, D. (2011) Lack of global dosage compensation in *Schistosoma mansoni*, a female-heterogametic parasite. **Genome Biology and Evolution** 3:230-235.
6. Mank, J., **Vicoso, B.**, Berlin, S. and Charlesworth, B. (2010) Effective population size and the Faster-X Effect: Empirical Results and their Interpretation. **Evolution** 64(3):663-674.
7. **Vicoso, B.** and Bachtrog, D. (2009) Progress and prospects toward our understanding of the evolution of dosage compensation. **Chromosome Research** 17(5).
8. **Vicoso, B.** and Charlesworth, B. (2009) Effective population size and the Faster-X Effect: an Extended Model. **Evolution** 63(9):2413-26.
9. **Vicoso, B.** Charlesworth, B. (2009) The deficit of male-biased genes on the *D. melanogaster X* is expression-dependent: a consequence of dosage compensation? **Journal of Molecular Evolution**. 68(5):576-83.
10. **Vicoso, B.**, Charlesworth, B. (2009) Recombination may affect polymorphism levels on the *X* and the autosomes in African populations of *Drosophila*. **Genetics** 181(4):1699-701.
11. **Vicoso, B.**, Haddrill, P.R., Charlesworth, B. (2008) A multi-species approach for comparing sequence evolution of *X*-linked and autosomal sites in *Drosophila*. **Genetics Research**, *Genetics Research* 90:421-431.
12. **Vicoso B**, Charlesworth B (2006) Evolution on the *X* chromosome: unusual patterns and processes. **Nature Reviews Genetics** 7: 645–653.

Recommended by Faculty of 1000.