

Biosketch – Tomas Hrbek

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Tomas Hrbek, Associate Professor of Genetics, Department of Genetics, Institute of Biological Sciences, Federal University of Amazonas, Manaus, AM 69077, Brazil

a. Professional Preparation

Undergraduate Binghamton U. (SUNY)	Biochemistry	BS 1992
Graduate Washington U. in St. Louis	Evolutionary Biology	PhD 1999
Postdoctoral U. of Konstanz, Germany	Evolutionary Biology	1999-2002
Postdoctoral Washington U. School of Medicine	Quantitative Genetics	2002-2004
Sabbatical Brigham Young University	Evolutionary Biology	2014-2015

b. Appointments

2014- Associate Professor, Genetics, Federal University of Amazonas
2010-2014 Associate Professor, Biology, Federal University of Amazonas
2010-2012 Associate Professor, Biology, University of Puerto Rico
2005-2010 Assistant Professor, Biology, University of Puerto Rico
2005- Adjunct Researcher, National Research Institute of the Amazon
2004-2005 Fulbright research/lecture fellow, Federal University of Amazonas and National Research Institute of the Amazon
2002-2004 NIH Research Associate, Washington University School of Medicine
1999-2002 NSF International postdoctoral fellow, University of Konstanz

c. Publications (11 recent of 84) - *mentored students

Oliveira*, DPd, Carvalho*, VTd, Hrbek, T., 2016. Cryptic diversity in the lizard genus *Plica* (Squamata): Phylogenetic diversity and Amazonian biogeography. *Zool Scr.* 45, 630-641. doi:10.1111/zsc.12172

Byrne*, H, Rylands, AB, Carneiro, JC, Lynch-Alfaro, JW, Bertuol*, F, da Silva, MNF, Messias, M, Groves, CP, Mittermeier, RA, Farias, I., Hrbek, T, Schneider, H, Sampaio, I, Boubli, JP. 2016. Phylogenetic relationships of the New World titi monkeys (*Callicebus*): first appraisal of taxonomy based on molecular evidence. *Front Zool.* 13, 10. doi:10.1186/s12983-016-0142-4

Banhos*, A, Hrbek, T, Sanaiotti, TM, Farias, IP. 2016. Reduction of genetic diversity of the Harpy Eagle in Brazilian tropical forests. *PLoS One* 11, e0148902. doi:10.1371/journal.pone.0148902

Collins, RA, Hrbek, T. 2015. An in silico comparison of reduced-representation and sequence-capture protocols for phylogenomics. *Syst Biol.* accepted – bioRxiv. doi:10.1101/032565

Gravena*, W, da Silva, VMF, da Silva, MNF, Farias, IP, Hrbek, T. 2015. Living between rapids: genetic structure and hybridization in botos (Cetacea: Iniidae: *Inia* spp.) of the Madeira River, Brazil. *Biol J Linn Soc.* 114:764–777. doi:10.1111/bij.12463

Escobar* L., MD, Andrade-López, J, Farias, IP, Hrbek, T. 2015. Delimiting evolutionarily significant units of the fish, *Piaractus brachypomus* (Characiformes: Serrasalminae), from the Orinoco and Amazon River Basins with insight on routes of historical connectivity. *J Hered.* 106:428–438. doi:10.1093/jhered/esv047

Farias, IP, Santos*, WG, Gordo, M, Hrbek, T. 2015. Effects of forest fragmentation on genetic diversity of the critically endangered primate, the Pied Tamarin (*Saguinus bicolor*): Implications for conservation. *J Hered.* 106, 512-521. doi:10.1093/jhered/esv048

Hrbek, T, da Silva, VMF, Dutra*, N, Gravena*, W, Martin, AR, Farias, IP. 2014. A new species of river dolphin from Brazil or: how little do we know our biodiversity. *PLoS One.* 9:e0083623. doi:10.1371/journal.pone.0083623

Gravena*, W, Farias, IP, da Silva, MNF, da Silva, VMF, Hrbek, T. 2014. Looking to the past and the future: were the Madeira River rapids a geographic barrier to the boto (Cetacea: Iniidae)? *Conserv Genet.* 15:619–629. doi:10.1007/s10592-014-0565-4

Papa, R, Kapan, DD, Counterman, BA, Maldonado*, K, Lindstrom, DP, Reed, RD, Nijhout, HF, Hrbek, T, McMillan, WO. 2013. Multi-allelic major effect genes interact with minor effect QTLs to control adaptive color pattern variation in *Heliconius erato*. *PLoS One* 8, e57033. doi:10.1371/journal.pone.0057033

Farias, IP, Torrico, JP, García-Dávila, C, Santos*, MdCF, Hrbek, T, Renno, J-F. 2010. Are rapids a barrier for floodplain fishes of the Amazon basin? A demographic study of the keystone floodplain species *Colossoma macropomum* (Teleostei: Characiformes). *Mol Phylogenet Evol.* 56, 1129-1135. doi:10.1016/j.ympev.2010.03.028

d. Synergistic Activities

1. Associate Editor: The Journal of Heredity, 2015-; PeerJ, 2015-; Review Editor: Frontiers in Phylogenetics, Phylogenomics, and Systematics (Frontiers.org), 2013- , and Reviewer for over 20 journals including Animal Conservation, Biological Journal of the Linnean Society, Conservation Genetics, Genetics and Molecular Biology, Journal of Zoological Systematics and Evolutionary Research, Journal of Heredity, Marine Mammal Science, Methods

in Ecology and Evolution, Molecular Ecology, Molecular Phylogenetics and Evolution, Neotropical Ichthyology, PeerJ, PLoS ONE, Systematic Biology, Zoologica Scripta, Zootaxa

2. Student mentoring: I served as advisor or co-advisor for 29 MSc and 11 PhD students with additional 3 and 5, respectively, ongoing. Served as an external examiner on 21 MSc and 8 PhD defenses. Mentored 3 postdoctoral researchers. Supervised undergraduate research projects for 8 students. Students were/are from mainland USA, Puerto Rico, Brazil, Colombia, Peru, Venezuela and England.
3. Coordinator of the graduate program in Biological Diversity at UFAM (2011-2014); graduate program committee member in Biology and Biomedical Sciences at UPR (2006-2010), Genetics, Conservation and Evolutionary Biology at INPA/UFAM (2010-2013), Zoology at UFAM (2015-).
4. Director of the CTGA/UFAM tissue collection, official animal tissue collection of the UFAM (2013-)
5. Academic outreach: I have given over 30 public presentations since 2001, including invited seminars and symposium talks, and symposium organization.
6. Grant reviewer: panelist and reviewer for the National Science Foundation (NSF); Brazilian National Council for Scientific and Technological Development (CNPq), Brazilian Coordination for the Improvement of Higher Education Personnel (CAPES), Austrian Science Fund (FWF), Swiss National Science Foundation (SNF), German Research Foundation (DFG).

e. Collaborators & Other Affiliations

(i) Collaborators

Anders Conçalves (Monash University, Australia); Anthony Martin (University of Andrews, UK); Benoit de Thoisy (Institute Pasteur, French Guiana); Camila Ribas (National Research Institute of the Amazon, Brazil); Eduardo Eizirik (Federal University of Rio Grande do Sul, Brazil); Fernanda Werneck (National Research Institute of the Amazon, Brazil); Guarino Colli (University of Brasilia, Brazil); Horacio Schneider (Federal University of Para, Brazil); Iracilda Sampaio (Federal University of Para, Brazil); Izeni P. Farias (Federal University of Amazonas, Brazil); Jack Sites (Brigham Young University, USA); Jean Boubli (University of Salford, UK); Jorge Porto (National Research Institute of the Amazon, Brazil); Joel Cracraft (American Museum of Natural History); Justin Bagley (University of Brasilia, Brazil), Marcelo Gordo (Federal University of Amazonas, Brazil); Marcelo Menin (Federal University of Amazonas, Brazil); Maria N. F. da Silva (National Research Institute of the Amazon, Brazil); Nikolaos Schizas (University of Puerto Rico, Puerto Rico); Riccardo Papa (University of Puerto Rico, Puerto Rico); Robert Guralnick (University of Florida); Stuart C. Willis (Texas A&M University); Susana Caballero (University of the Andes, Colombia); Vera M. F. da Silva (National Research Institute of the Amazon, Brazil); W. Owen McMillan (Smithsonian Tropical Research Institute, Panama)

(ii) Graduate and Postdoctoral Advisors

Allan Larson, Washington University
Axel Meyer, University of Konstanz
James Cheverud, Loyola University Chicago

(iii) Thesis Advisor and Postgraduate Sponsor (3 postdocs; 16 PhD; 32 MSc)

postdoc: Rupert Collins (12-15, currently postdoc at University of Bristol), Waleska Gravena (14-16, currently prof at UFAM), José Gregório Martínez (15-17)

PhD: Fabio Röhe (16-20), Rodrigo Costa Araujo (15-19), Rommel Roberto Rojas (15-19), Luciana Frazão Luiz (15-19), Fabio Muniz (14-18), Valeria Nogueira Machado (12-16), José Gregório Martínez (11-15, currently postdoc at UFAM), Waleska Gravena (10-14, currently prof at UFAM), Pascal Mege (08-12, currently postdoc at University of Angers), Daniel Toffoli (08-13, currently prof at UEFS), Manuella Villar Amado (04-08, currently prof at IFES), Andrea Cantanhede (04-08, currently prof at UFMA), Ximena Velez Zuazo (07-12, currently research scientist, Smithsonian Institute), Themis da Silva (05-09, currently prof at UFAL), Maria da Conceicao Freitas (06-10, currently prof at UEA), Deyla Oliveira (11-15, currently postdoc at UTF)

Masters: Gustavo Ladeira (16-18), Ingrid Souza (16-18), Sarah Ventura de Carvalho (15-17), Bruna Soares (14-16), Rejane Medeiros (14-16), Diana Patricia Sanchez Bernal (13-16, currently RA at UniAndes), Sandra Hernandez (13-15, currently RA at UFAM), Joiciane Farias (13-15, currently substitute prof at UEMT), Elciomar Oliveira (13-15, currently Ph.D. at UFPA), Fabricio Bertuol (13-15, currently RA at UFAM), Jessica Motta (13-15, currently RA at INPA), Ana Paula Melo Correa (12-15, currently substitute prof at FARES), Ana Paula Costa (12-14, currently at NGO AMPA), Roberta Canton (12-14, currently RA at INPA), Ana Maria Olivares (11-13, currently Ph.D. at Harvard Medical School), Emanuell Duarte Ribeiro (11-13, currently Ph.D. at UPR-RP), Guilherme Fernandes Diaz (11-13, currently prof at FESG), Olavo Collatreli (10-12, currently prof at UFAM), Dania Rodriguez (09-13, currently scientist at CDC, Puerto Rico), Ana Rita Patricio (08-11, currently Ph.D. at Exeter), Mauro Ortiz (08-10, currently Ph.D. at UFSM), Daniela Le Roy (08-10, currently lecturer at Instituto Suricuto), Karla Maldonado (07-11, currently forensic scientist at Institute of Forensic Sciences of Puerto Rico), Jason Macrander (07-10, currently postdoc at UNC at Charlotte), Felix Araujo (07-10, currently RA at Duke), Kelmer Batalha Passos (07-09), Natasha Meliciano (06-08, currently prof at UFAM), Eduardo Rodrigues (06-08, currently forensic scientist with Amazonas state police), William Vasconcelos (06-08, currently independent environmental consultant), Yane Almeida Santo (04-06, currently prof at UEPA), Adam Leão (06-08, deceased), Sergio Alejandro López Pabón (09, deceased)