

Rongfeng Cui  
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**Education**

**2009~2014** Ph.D. in Biology, Texas A&M University, College Station  
**2004~2008** Bachelor of Science in Biology, Sun Yat-sen University, Canton, China

**Experiences**

**2014~Present**

Postdoctoral associate: Evolution of olfactory receptors in *Nothobranchius furzeri* and genome-wide patterns of selection in African annual killifishes. Dr. Dario Valenzano. Max-Planck Institute for the Biology of Aging.

**2010-2014**

Dissertation research: Mechanisms and genomic patterns of reproductive isolation in *Xiphophorus* fishes. Advisor: Dr. Gil Rosenthal. Texas A&M University.

**2010-2012**

Research assistant: *anyFish* – a user friendly software for creating computer-animated stimuli in animal behavior (supported by NSF). Texas A&M University.

**2011-2014**

Teaching assistant: BIOL-107 Zoology lab. Texas A&M University.

**2009-2010**

Teaching assistant: BIOL-112 introductory biology II lab. Texas A&M University.

**2004~2008**

Bachelor's degree thesis - A survey of the gobies (Perciformes, Gobiidae) of Zhuhai, China.

**Publications**

- R. Cui, M. Schumer, G.G. Rosenthal. Admix'em: A flexible framework for forward-time simulations of hybrid populations with selection and mate choice. Submitted.
- M. Schumer\*, R. Cui\*, G.G. Rosenthal and P. Andolfatto. simMSG: an experimental design tool for high-throughput genotyping of hybrids. Submitted. **\*co-first authorship**
- M. Schumer, R. Cui, G.G. Rosenthal and P. Andolfatto. 2015. Reproductive isolation of hybrid populations driven by genetic incompatibilities. *PLoS Genet.* doi:10.1371/journal.pgen.1005041.
- M. Schumer, R. Cui, D. Powell, R. Dresner, G.G. Rosenthal, P. Andolfatto. 2014. High-resolution mapping reveals hundreds of genetic incompatibilities in hybridizing fish species. *eLife*.
- R. Cui, X. Yang, Y. Pan and Y. Wang, 2013. A new barbeled goby from south China. *Zootaxa* 3670(2):177-192.
- T. Veen, S. Ingley, R. Cui, et al. 2013. anyFish: open-source software to generate animated fish models for behavioral studies. *Evolutionary Ecology Research* 15:361-375.
- R. Cui, M. Schumer, K. Kruesi, R. Walter, P. Andolfatto and G.G. Rosenthal, 2013.

Phylogenomics reveals extensive reticulate evolution in *Xiphophorus* fishes. *Evolution*. DOI: 10.1111/evo.12099.

- M. Schumer, R. Cui, B. Boussau, R. Walter, G.G. Rosenthal and P. Andolfatto, 2012. An evaluation of the hybrid speciation hypothesis for *Xiphophorus clemenciae* based on whole genome sequences. *Evolution*. DOI: 10.1111/evo.12009
- T. Butkowski, W. Yan, A.M. Gray, R. Cui, M.N. Verzijden and G.G. Rosenthal, 2011. Automated interactive video playback for studies of animal communication. *J. Vis. Exp.*, e2374
- Y. Wang, J. Yang and R. Cui. 2010. A New Species of *Goniurosaurus* (Squamata: Eublepharidae) from Yingde, Guangdong Province, China. *Herpetologica* 66:229-240.
- Y. Wang and R. Cui. 2007. The new distribution record of *Ficedula narcissina owstoni* in mainland China. *Acta Zootaxonomica Sinica*. 32(2):492-494.

### **Posters & Presentations**

- M. Schumer, R. Cui, D. Powell, R. Dresner, G.G. Rosenthal and P. Andolfatto, 2014. The genetic architecture of reproductive isolation between naturally hybridizing species. SICB, Austin, Texas.
- R. Cui, M. Schumer, K. Kruesi, R. Walter, P. Andolfatto and G.G. Rosenthal, 2013. Phylogenomics reveals extensive reticulate evolution in *Xiphophorus* fishes. SICB, San Francisco, CA.
- R. Cui, M.N. Verzijden and G.G. Rosenthal, 2012. Social effects act in opposite directions to shape mating preferences in sister species of swordtail fishes. Annual meeting of American Livebearer Association. Ft. Lauderdale, FL.
- R. Cui and G.G. Rosenthal, 2011. Early learning and mechanisms of conspecific mate preference in a swordtail fish *Xiphophorus malinche* (Teleostei, Poeciliidae). *Evolution*, Society for the Study of Evolution, Norman OK.

### **Grants & Awards**

#### ***2013 Jan.***

Award for Best Student Oral Paper (Division of phylogenetics & Comparative Biology). SICB. San Francisco, CA.

#### ***2012 Oct***

Charlotte Mangum Student Support. SICB. San Francisco, CA.

#### ***2012 Oct***

Faculty of Neuroscience Travel Award. Faculty of Neuroscience, Texas A&M University. \$500.00.

#### ***2012 Aug***

Doctoral dissertation improvement grant. Dissertation research: Olfactory reproductive isolating mechanisms in swordtail fishes. NSF. \$15,000.00.

#### ***2012 May***

Roosbeh Arianpour Endowed Memorial Scholarship in Biology. Department of Biology, Texas A&M University. \$1,000.

#### ***2011 May***

Rosemary Grant Award for Graduate Student Research. Society for the Study of Evolution.

\$2490.00.

**2004 May**

Second Award in microbiology. 55<sup>th</sup> Intel International Science and Engineer Fair. Science Service. Portland, Oregon. \$1,500.

**Languages**

*Human:* Cantonese (native), Mandarin (native), English (TOEFL ibt 113/120)

*Computer:* PHP, c++, java, javascript, shell, R, perl, python etc.