Curriculum Vitae

Ching-Ho Chang

Mailing Address:
337 Hutchison Hall
Rochester, NY 14627
Lab Phone: 585-273-2475
E-mail: cchang45@ur.rochester.edu

Education

Doctor's Program, Ecology and Evolutionary Biology Program,
University of Rochester
Advisor: Dr. Amanda Larracuente
September 2014 - present

Master's Program, Institute of Ecology and Evolutionary Biology,
National Taiwan University
Thesis: Early-stage Evolution of the neo-Y chromosome in *Drosophila albomicans*
Advisor: Dr. Chau-Ti Ting
September 2009 - July 2011

B.S., Department of Life Science,
National Taiwan University
September 2005 - August 2009

Work Experiences

Research assistant, Department of Life Science, National Taiwan University
Laboratory of Dr. Chau-Ti Ting,
August 2012 – July 2014

Compulsory Military Service
Second Lieutenant
Chemical, Biological, Radiological, and Nuclear Defense Specialist
August 2011 – July 2012

Publication

* Corresponding author # Equal contribution

Paper:

2018:

Chang, C.-H.* and A.M. Larracuente*. Heterochromatin-enriched assemblies reveal the sequence and organization of the Drosophila melanogaster Y chromosome. Biorxiv. doi: https://doi.org/10.1101/363101 (revise in GENETICS)

Chang, C.-H.#, A. Chavan#, J. Palladino# et al., et al. Islands of non-LTR retroelements are major components of *Drosophila melanogaster* centromeres. (submitted).

Lo C.-W., Y. Kryvalap, T.J. Sheu, C.-H. Chang and Czyzyk J. Cathepsin L mediates anti-serpin B13 induced replicative activity in pancreatic beta cells. (submitted)

Fallon T.R.#, S.E. Lower#, C.-H. Chang, et al. Firefly genomes illuminate the origin and evolution of bioluminescence (accepted in eLife). Biorxiv. doi: https://doi.org/10.1101/237586

2017:

Chang, C.-H.* and A.M. Larracuente. 2017. Genomic changes following the reversal of a Y chromosome to an autosome in *Drosophila pseudoobscura*. Evolution 71(5): 1285-1296.
Martinson E.O.#, Mrinalini#, Y.D. Kelkar, C.-H. Chang and J.H. Werren. 2017. The origin of novel venoms by co-option of single copy genes. Current Biology 27(13) 2007-2013.

Before 2017:
Chang C.-c.#, C.-T. Ting#, C.-H. Chang, S. Fang and H. Chang 2014. The Persistence of Facultative Parthenogenesis in *Drosophila albomicans*. PLoS ONE 9(11): e113275.
Cheng, C.-H.#, C.-H. Chang# and H. Chang. 2011. The early stage evolution of the neo-Y chromosome in *Drosophila albomicans*.
Zoological Studies 50(3): 338-349.

In preparation:
Chang, C.-H.*, C.D. Meiklejohn and A.M. Larracuente*. Rapid gene turnover and extensive genome rearrangements on Y chromosomes in the *Drosophila simulans* clade.
Chakraborty M#, C.-H. Chang#, et al. Evolution of genome structure in the *Drosophila simulans* clade.
Chang, C.-H.*,.., A.M. Larracuente*. Dominant epistasis of a *Segregation distortion* suppressor in *Drosophila melanogaster*

Conference Presentations:
Comparative genomics reveals rampant gene duplication and reorganization of the Drosophila melanogaster and the simulans clade Y chromosomes, SMBE, July 2018 (Oral presentation)
Chang, C.-H. and A.M. Larracuente. Subfunctionalization of *SRPK*—a new Y-linked gene family in the *Drosophila simulans* clade. SMBE, July 2017 and 56th annual Drosophila conference, March 2018 (Poster presentation).
Chang, C.-H. and A.M. Larracuente. Genomic changes following the reversal of a Y chromosome to an autosome in *Drosophila pseudoobscura*. TAGC, July 2016 (Poster presentation) and Meeting of Evolutionary Genomics of Sex, Nov 2016 (Oral Presentation)
Chang, C.-H., S. Fang, C.-T. Ting and H. Chang. Degeneration of the neo-Y chromosome in *Drosophila albomicans*. SMBE, July 2013 (Poster presentation)
Chang, C.-H., S. Fang, C.-T. Ting and H. Chang. Evolutionary significance of gene expression divergence of the neo-sex chromosomes in *Drosophila albomicans*.
52nd Drosophila Research Conference at San Diego CA, April 2011 (Poster presentation)

Awards and Fellowships

SMBE registration award, 2018
Government Scholarship to Study Abroad, Ministry of Education, Taiwan (USD $16000 * 2 years), 2018
Best Poster Award, Department of Biology, U of Rochester, 2017
GSA Travel Grant, AS&E Graduate Student Association, U of Rochester, 2017
Department Travel Funds, U of Rochester, 2017 and 2018
Travel Award, Meeting of Evolutionary Genomics of Sex, 2016
TAGC Travel Award, GSA, 2016
Ernst Caspari Fellowship, University of Rochester (USD $2000 * 3 years), 2014-2017
Dean's Award, College of Life Science, National Taiwan University, Taiwan, 2011
Outstanding Students Conference Travel Grant, Foundation for the Advancement of Outstanding Scholarship, Taiwan, 2011

Travel Grant for International Conference, National Science Council, Taiwan, 2011
Reward of Excellence, NTU & NTNU Joint Symposium on Ecology and Evolutionary Biology, National Taiwan University, Taiwan, 2011

Professional Activities

2017-present Paper reviewer: G3 (2), Genetics (2)
2017-present *GENETICS* Peer Review Training Program

Teaching Experience & Selected Extracurricular Activities

President, U of Rochester Taiwanese Student Association
January 2017 – June 2018
Teaching Assistant, General Biology Laboratory, U of Rochester
Spring 2015 and 2016
Teaching Assistant, General Botany Laboratory, National Taiwan University
Fall 2009