Department of Biology,
1001 E. 3rd St., Bloomington, IN, 47405-7005
(513) 593-4686, wum5@indiana.edu

# CURRICULUM VITAE

Mr. Meng Wu

## EDUCATION

Ph.D. in Ecology, Evolution & Behavior (minor: Bioinformatics), 2014.8~Present, Department of Biology, Indiana University, IN, USA
*Committee: Leonie C. Moyle (advisor), Matthew W. Hahn, Haixu Tang, Volker Brendel*

M.S. in Botany, 2012.8~2014.8, Department of Biology, Miami University, OH, USA
*Committee: Richard C. Moore (advisor), James R. Hickey, Chun Liang*

B.S. in Plant Science & Technology, 2008.9~2012.6, College of Agronomy, Sichuan Agricultural University, Sichuan, China
*Thesis advisor: Dengcai Liu, Zongxiang Tang*

## AWARDS AND HONORS

"Heimsch Award", $900, Department of Biology, Miami University, 2014
"Genetics Section Student Poster Award", Botanical Society of America, 2013
"Academic Challenge Research Grant", $2000, Dept. of Biology, Miami University, 2013
"Graduate Award for Master Thesis", $300, Graduate School, Miami University, 2012
"Outstanding Graduate Honor", Sichuan Agricultural University, 2012
"Academic Scholarship", $300, Sichuan Agricultural University, 2012
"Merit Student Honor", Sichuan Agricultural University, 2011
"Academic Scholarship", $300, Sichuan Agricultural University, 2011
"Merit Student Honor", Sichuan Agricultural University, 2009
"Cong-Neng Scholarship", $150, Sichuan Agricultural University, 2009

## RESEARCH PROJECTS

- Assembly of *Jaltomata sinuosa* genome using PacBio and Illumina NGS data
- Phylogenomic study of *Jaltomata* species using whole-transcriptome data
- Transcriptional activity of TEs in wild tomato species using RNA-seq data
- Origin of the loss-of-function lycopene beta cyclase allele in cultivated red-fleshed papaya
- Population genetic study on sex chromosome degradation evolution in papaya
- Gnome evolution in the synthetic wheat-rye allopolyploids

## PUBLICATIONS

**Wu M**, Lewis J, Moore RC. 2017. A wild origin of the loss-of-function lycopene beta cyclase

(CYC-b) allele in cultivated, red-fleshed papaya (*Carica papaya*) *American Journal of Botany* 104:1-11.

**Wu M** and Moore RC. 2015. The evolutionary tempo of sex chromosome degradation in *Carica papaya*. *Journal of Molecular Evolution* 80:265-277.

Lappin FM, Medert CM, Hawkins K, Mardonovich S, **Wu M**, Moore RC. 2015. A polymorphic pseudoautosomal boundary in the *Carica papaya* sex chromosomes. *Molecular Genetics and Genomics* 290:1511-1522.

Hao M, Luo J, Zhang L, Yuan Z, Yang Y, **Wu M**, Chen W, Zheng Y, Zhang H, Liu D. 2013. Production of hexaploid triticale by a synthetic hexaploid wheat-rye hybrid method. *Euphytica* 193:347-357

Tang Z*, **Wu M***, Zhang H, Yan B, Tan F, Zhang H, Fu S, Ren Z. 2012. Loss of parental coding sequences in early generation of wheat-rye allopolyploid. *International Journal of Plant Sciences* 173:1-6 (***equal contribution**)

## GRADUATE ASSISTANTSHIPS

Teaching assistant in course "Evolution", Indiana University, 08/2016~05/2017
Teaching assistant in course "Biology Laboratory", Indiana University, 01/2015~05/2016
Teaching assistant in course: "Biotechnology", Miami University, 08/2013-12/2013
Teaching assistant in course: "Evolution", Miami University, 01/2013~05/2013
Research assistant, Herbarium of Miami University, 08/2012~12/2012

## CONFERENCES/WORKSHOPS

"2014 Annual meeting of the Society for the Study of Evolution", Raleigh, 06/2014
Moore RC, **Wu M**, Lewis J. Introgression of the allele for red fruit color from cultivated to wild papaya through feral intermediates. [Abstract]

"2014 Midwest Ecology and Evolution Conference", Dayton, 03/2014
**Wu M** and Moore RC. The evolutionary tempo of sex chromosome degradation in *Carica papaya.* [Abstract and Oral Presentation]

"2013 Graduate Research Forum", Miami University, 11/2013
**Wu M** and Moore RC. The evolutionary tempo of Y chromosomal degeneration in *Carica papaya*. [Abstract and Poster Presentation]

"2013 Annual Meeting of the Botanical Society of America", New Orleans, 07/2013
**Wu M** and Moore RC. The investigation on protein evolution of Y chromosome in *Carica papaya*. [Abstract and Poster Presentation]
Lappin FM, Medert CM, Mardonovich S, **Wu M**, Moore RC. Redefining the pseudoautosomal region boundries of *Carica papaya* X chromosome. [Abstract]

## COMPUTATIONAL SKILLS

- Experience in statistical or programming languages (R and Python)
- Proficiency in shell scripting in a Linux environment