Zhi-Yong Zhang

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Group Members	Dr. Deng-Mei Fan Dr. Bo Li Dr. Yi-Xuan Kou

RESEARCH INTERESTS:

My research focuses on the evolutionary history of plants in subtropical China. Being characterized by a mild monsoon climate and a complex topography, subtropical China is particularly rich in plant taxa that are presumed to be phylogenetically primitive. This region is also characterized by the largest area of evergreen-broadleaved forest in the world. The way I address the question is by studying the phylogeography and phylogenetics of some representative taxa in different vegetation types, such as *Pinus*, *Fagus*, *Cyclocarya*, *Castanopsis*, *Schima*, *Coptis*, and so on. I also concern the conservation of genetic diversity of some critically endangered plants, such as *Sinomanglietia glauca*, *Pinus squmata*.

EDUCATION

Sichuan University, Chengdu, Sichuan
B.A., Botany major, 1994
Jiangxi Agricultural University, Nanchang, Jiangxi
M.A., Botany major, 1999
Kunming Institute of Botany, the Chinese Academy of Sciences, Kunming, Yunnan
Ph.D. Evolutionary Botany, 2003
Institute of Botany, the Chinese Academy of Sciences, Beijing
Post-doctoral Research Associate, phylogeography and conservation genetics, 2003-2006
Visiting scholar, Florida Museum of Natural History, University of Florida, 2014-2015

PROFESSIONAL POSITIONS

Professor, College of Agriculture, Jiangxi Agricultural University, Nanchang, Jiangxi, October 2006—present
Associate Professor, College of Agriculture, Jiangxi Agricultural University, Nanchang, Jiangxi, 2003-2006

Assistant Professor, College of Agriculture, Jiangxi Agricultural University, Nanchang, Jiangxi, 1994-2003

CURRENT SUPPORT

Study on the spatial pattern of genetic diversity in forest plant species of Jiangxi Province. NSFC, 31160043

PI: Zhiyong Zhang. Total costs: RMB￥530,000. 2012 – 2015.

COURSES

Botany: undergraduate student

Conservation Biology: graduate student

Journal article reviewer

Journal of Systematics and Evolution, American Journal of Botany, Molecular Ecology Resources, Biochemical Systematics and Ecology, HortScience, Journal of Biogeography, Journal of Integrative Plant Biology, Biodiversity Science, Australian Journal of Botany

SELECTED PUBLICATIONS

*Author for correspondence

1. Deng-Mei Fan, Lin-Jiang Ye, Yi Luo, Wan Hu, Shuang Tian, **Zhi-Yong Zhang***. Development of 25 microsatellite loci for *Cyclocarya palirulus* (Juglandaceae), a monotypic species in subtropical China. *Applications in Plant Science,* 1(6): 1200524
2. Bo Li, **Zhiyong Zhan**g, Dianxiang Zhang*. Conservation status of the sole population of *Wenchengia alternifolia*, an enigmatic plant endemic to Hainan Island, China. Accepted by *Oryx*. doi:10.1017/S0030605313001373.
3. **Zhi-Yong Zhang***, Rong Wu, Qun Wang, Zhi-Rong Zhang, Deng-Mei Fan, Jordi López-Pujol, De-Zhu Li*. 2013. Comparative phylogeography of two sympatric beeches in subtropical China: Species-specific geographic mosaic of lineages. Ecology and Evolution, 3(13):.4461-4472.
4. Ming Lei, Qun Wang, Zhen-Jian Wu, Jordi López-Pujol, De-Zhu Li*, and **Zhi-Yong Zhang***. 2012. Molecular phylogeography of *Fagus engleriana* (Fagaceae) in subtropical China: limited admixture among multiple refugia. *Tree Genetics and Genomes*, 8: 1203-1212
5. Zhi-Rong Zhang, Deng-Mei Fan, Shi-Quan Guo and **Zhi-Yong Zhang***. 2011. Development of 29 microsatellite markers for *Osmanthus fragrans*, a traditional fragrant flowering tree of China. *American Journal of Botany*, e356–e359
6. Shi-Quan Guo, Min Xiong, Zhi-Rong Zhang, De-Zhu Li & **Zhi-Yong Zhang***. 2011. Molecular phylogenetic reconstruction of *Osmanthus* Lour. (Oleaceae) and related genera based on three chloroplast intergenic spacers. *Plant Systematic and Evolution* 294: 57-64
7. Qing-Jun Yuan[¤], **Zhi-Yong Zhang**[¤], Lu-Qi Huang, Juan Hu, Lan-Ping Guo and Ai-Juan Shao. 2010. Impacts of modern cultivation on genetic diversity pattern of a medicinal plant, *Scutellaria baicalensis* (Lamilaceae). *BMC Genetics*, 11:29. ([¤] **co-first author**)
8. Shuang Tian, Jordi López-Pujol, Hong-Wei Wang, Song Ge, and **Zhi-Yong Zhang***. 2010. Molecular evidence for glacial expansion and interglacial retreat during the Quaternary climatic changes in a montane temperate pine (*Pinus kwangtungensis* Chun ex Tsiang) in

southern China. *Plant Systematics and Evolution*, 284: 219-229

9. Jordi López-Pujol & **Zhi-Yong Zhang**. 2009. An insight into the most threatened flora of China. *Collectanea Botanica (Barcelona),* **28**: 61-76.
10. Zhi-Rong Zhang, Lai-Chun Luo, Ding Wu and **Zhi-Yong Zhang***. 2009. Two genetically distinct units of *Sinomanglietia glauca* (Magnoliaceae) detected by chloroplast PCR-SSCP. *Journal of Systematics and Evolution* **47**: 110-114
11. Shuang Tian, Lai-Chun Luo, Song Ge and **Zhi-Yong Zhang***. 2008. Clear population structure of *Pinus kwangtungensis* (Pinaceae) revealed by a plastid DNA fragment with a novel minisatellite. *Annals of Botany* **102**: 69-78
12. Qing-Jun Yuan, **Zhi-Yong Zhang***, Hua Peng* and Song Ge. 2008. Chloroplast phylogeography of *Dipentodon* (Dipentodontaceae) in southwest China and northern Vietnam. *Molecular Ecology*, 17:1054-1065
13. **Zhi-Yong Zhang**, Xiao-Ming Zheng and Song Ge*. 2007. Population genetic structure of *Vitex negundo* (Verbenaceae) in Three-Gorge Area of the Yangtze River: the river barriers to seed dispersal in plants. *Biochemical Systematics and Ecology*, **35**: 506-516
14. **Zhi-Yong Zhang**, Yong-Yan Chen and De-Zhu Li*. 2005. Detection of low genetic variation in a critically endangered Chinese pine, *Pinus squamata* using RAPD and ISSR markers. *Biochemical Genetics*, 43(5):239-249
15. **Zhi-Yong Zhang**, Jun-Bo Yang and De-Zhu Li*.2003. Phylogenetic relationship of the extremely endangered species, *Pinus squamata* (Pinaceae) inferred from four sequences of the chloroplast genome and ITS of the nuclear genome. *Acta Botanica Sinica.* 45 (5) :530-535