

简历

伊廷双

研究员（二级），攻关团队负责人，专题组组长（植物系统与进化研究组 Plant phylogenetics and evolution group），博士生导师，中国西南野生生物种质资源库副主任（2019.03.01; Deputy director of Germplasm Bank of Wild Species, Kunming Institute of Botany, Chinese Academy of Sciences），中国科学院昆明植物研究所第十二届学术委员会委员，中国科学院昆明植物研究所第五届学位评定委员会委员。

中国科学院昆明植物研究所中国西南野生生物种质资源库
Germplasm Bank of Wild Species, Kunming Institute of Botany, Chinese Academy of Sciences

地址：云南省昆明市蓝黑路 132 号

Lanhei Road #132, Kunming, Yunnan 650201, China

邮编：650201

工作电话：（86）-871-65223136；手机：13888059718

传真：（86）871-65223169

电子邮箱：tingshuangyi@mail.kib.ac.cn

Website: <http://people.ucas.edu.cn/~tys?language=en>
<https://scholar.google.com/citations?user=BwZWaU0AAAAJ&hl=en>

网页：<http://people.ucas.edu.cn/~tys> ; <http://groups.kib.cas.cn/gbows/yts/>
个人信息维护：<https://teacher.ucas.ac.cn/advisorPaper/page>

Orchid: <https://orcid.org/0000-0001-7093-9564>; tingshuangyi@mail.kib.ac.cn, yi322222

博士招生方向：071001 植物学 08. (全日制)植物多样性与基因组学

硕士招生方向：071001 植物学 01. (全日制)植物多样性演化与分子进化

伊廷双：男，1973年生。博士，中国科学院昆明植物研究所二级研究员、课题组组长、中国科学院特聘研究员。2002.7于中国科学院昆明植物研究所获得博士学位。2002.11-2006.8先后在美国菲尔德自然历史博物馆和匹茨堡大学从事博士后工作。2006.11组建“植物分子系统与进化”研究团队，主要从事植物系统发育基因学和进化生物学研究。与本所同事首次提出新一代“iFlora”(智能植物志)的发展目标，列为研究所“十二五”的重大突破目标。在种子植物生命之树构建和固氮等重要性状的解析等取得了一系列原创性研究成果。以第一或通讯作者在本领域顶级期刊 *Nature Plants*、*Genome Biology*、*Systematic Biology*、*Molecular Plant* 等发表研究论文 89 篇，被引用 5400 余次，其中 ESI 领域热点 (0.1%) 论文 3 篇，高被引 (1%) 论文 (9 篇)，1 篇入选 2021“中国百篇最具影响国际学术论文”，1 项成果被《植物学报》选为“2019 年植物系统进化的重要进展”，3 篇论文入选中国科学院 B 类先导动态季报亮点成果，多项研究成果被 *Nature Plants*、*Genome Biology* 等期刊正面评价，多项成果被美国科技促进会和科技日报等重要新闻媒体报道，在国内外产生了广泛影响。主编《*Plants of China, A companion to the Flora of China*》第 20 章，《中国维管植物科属词典》12 个科，《中国维管植物科属志》13 个科。研发的质体基因组组装和注释的软件 **GetOrganelle** 和 **PGA** 在世界范围被广泛应用，对推动质体系统发育基因组学发展发挥了关键作用。先后主持国家自然科学基金重点国际合作项目、中国科学院战略性先导科技专项 (B 类) 课题等重要科研项目 20 余项，在科研组织和学术引领方

面发挥了重要作用。项目主持人，主要负责项目总体设计，项目实施过程总体进度把握。

Ting-Shuang Yi, professor of Germplasm Bank of Wild Species, Kunming Institute of Botany, Chinese Academy of Sciences, PI of Plant Phylogenetics and Evolution Group, deputy director of Germplasm Bank of Wild Species, China. Ting-Shuang Yi's group is mainly conducting researches on plant molecular phylogenetics and evolution and reconstructing the "iFlora" platform. In collaboration with colleagues, we firstly proposed the development of the next-generation Flora, or iFlora. The group has developed the plastome assembly (GetOrganelle) and annotation (PGA) toolkits, which have been widely used and play a key role on plastid phylogenomics; carried out researches on molecular phylogenetics and evolution of angiosperms, gymnosperms, especially the nitrogen-fixation clade, achieved a series of research results on the reconstruction of tree of life, species diversification, evolution of key traits, and genome diversification in these groups. The group has undertaken 25 grants including the Strategic Priority Research Program of Chinese Academy of Sciences, the Science and Technology Basic Resources Investigation Program of China, the National Natural Science Foundation of China, the key international (regional) cooperative research project, the Large-scale Scientific Facilities of the Chinese Academy of Sciences. The group has published 83 research articles, some of them are published in *Nature Plants*, *Genome Biology*, *Systematic Biology*, *New Phytologist*. Ting-shuang Yi is editor in chief for the chapter 20 of "Plants of China, a companion to the Flora of China", 13 families of "A Dictionary of the Families and Genera of Chinese Vascular Plants", 13 families of "The Families and Genera of Chinese Vascular Plants", pages 305–409 of "Plant Systematics: A Phylogentic Approach".

500 字自荐信：

被推荐人从事植物分子系统和进化生物学研究，在**种质多样性形成和维持机制**及固氮等重要性状的解析等取得了系列原创性研究成果。以第一或通讯作

者在本领域顶级期刊 Nature Plants、Genome Biology、Systematic Biology、Molecular Plant 等发表研究论文 93 篇，其中 **3 篇热点(0.1%)论文**，**8 篇高引(1%)论文**。主编《Plants of China, A companion to the Flora of China》第 20 章，《中国维管植物科属词典》12 个科，《中国维管植物科属志》13 个科。研发的叶绿体基因组组装和注释的软件 **GetOrganelle** 和 **PGA** 在世界范被广泛应用，对推动质体系统发育基因组学发挥了关键作用。研究成果被 Science 等国际顶级期刊引用 6000 余次，1 篇入选 2021 “**中国百篇最具影响国际学术论文**”，1 篇被《植物学报》选为“**2019 年植物系统进化的重要进展**”，3 篇论文入选中国科学院 **B 类先导动态季报亮点成果**，多项研究成果被 Nature Plants、Genome Biology 等期刊正面评价，多项成果被美国科技促进会 and 科技日报等重要新闻媒体报道，在国内外产生了广泛影响。先后主持国家自然科学基金重点国际合作项目、中国科学院战略性先导科技专项（B 类）课题等重要科研项目 20 余项，在科研组织和学术引领方面发挥了重要作用。本人自认为已**具备成为科技创新领军人才的条件**，如获支持，将产出更多有**国际影响**的研究成果，进一步提升团队的研究水平和原始创新能力。

字符数 500:

被推荐人在**种质多样性形成和维持机制**及固氮等重要性状的解析等取得了系列原创性研究成果。以第一或通讯作者在本领域顶级期刊 Nature Plants、Genome Biology 等发表研究论文 93 篇，其中 **3 篇热点(0.1%)论文**，**8 篇高引(1%)论文**。主编《Plants of China, A companion to the Flora of China》第 20 章等专著。研发质体基因组组装和注释的软件 **GetOrganelle** 和 **PGA**。研究成果被 Science 等国际顶级期刊引用 6000 余次，1 篇入选 2021 “**中国百篇最具影响国际学术论文**”，1 篇被《植物学报》选为“**2019 年植物系统进化的重要进展**”，多项研究成果被 Nature Plants 等期刊正面评价，多项成果被美国科技促进会和科技日报等重要新闻媒体报道，在国内外产生了广泛影响。先后主持国家自然科学基金重点国际合作项目、中国科学院战略性先导科技专项（B 类）课题等重要科研项目 20 余项，在科研组织和学术引领方面发挥了重要作用。本人自认为已**具备成为科技创新领军人才的条件**，如获支持，将进一步提升团队的研究水平和原始创新能力。

1988. 7. 1 入团

教育经历:

1999.9–2002.7, 中国科学院昆明植物研究所, 2002.7 获得博士学位

1996.9–1999.7, 中国科学院昆明植物研究所, 1999.7 获得硕士学位

1992.9–1996.7, 山东师范大学生物系, 1996.7 年获得学士学位

博士后/访问学者/访问教授

2012.7.9–2012.8.11, 访问教授, 东京大学, Komaba Graduate School of Arts and Science。Yu

2009.2–2009.4, 访问学者, 美国自然历史博物馆, 史密斯研究所。

2006.8–2006.9, 访问学者, 美国自然历史博物馆, 史密斯研究所。

2004.11–2006.7, 博士后, 美国匹茨堡大学生物系。合作教授: Susan Kalisz 博士。

2002.11–2004.11, 博士后, 美国芝加哥菲尔德自然历史博物馆植物系。合作教授: Jun Wen 博士。

工作经历:

2020.1.1–今, 中国西南野生生物种植资源库副主任

2022.01–今, 研究员二级, 中国科学院昆明植物研究所中国西南野生生物种质资源库。

2018.1.1–2021.12, 研究员三级, 中国科学院昆明植物研究所中国西南野生生物种质资源库。

2010.5.6–2017.12.31, 研究员四级, 中国科学院昆明植物研究所中国西南野生生物种质资源库。

2006.09–2011.5, 副研究员, 中国科学院昆明植物研究所中国西南野生生物种质资源库。

科研兴趣:

1. 植物分子系统发育基因组学

利用核、叶绿体基因组和线粒体系统发育基因组学方法重建种子植物科级水平, 固氮分支 (豆目、蔷薇目、壳斗目和葫芦目) 及其分支内蔷薇科、豆

科、鼠李科、大麻科等类群的生命之树，重建支系间的系统发育关系，确定主要支系和属种的分类范畴。并在构建的系统发育框架下，探讨基因组和叶绿体基因组进化机制，固氮性状及果实等形态性状的起源和多样化。

2. 植物多样化形成和维持机制

依据构建的系统发育树，结合古地质、古气候和化石证据推断类群的起源，现在分布格局形成的历史。探讨新性状获得、开拓新生境能力和基因组加倍等因子对物种多样化的影响。

3. 智能植物志“iFlora”

中国维管植物“iFlora”平台构建。对固氮分支，及该分支内的豆科、蔷薇科、鼠李科、大麻科等类群开展 DNA 条形码和组学数据为主的超级条形码（ultra-barcoding）研究。

一级学科：生物学；二级学科：植物学

关键词：分子系统学/molecular phylogenetics; 系统发育基因学/phylogenomics; 进化生物学/evolution biology; 物种多样化/species diversification

课题组人员组成：

伊廷双：课题组组长，研究员

Pamela S. Soltis：美国佛罗里达大学杰出教授 美国科学院院士，科学与艺术学院院士 (外专千人计划，云南省千人计划)

Douglas E. Soltis：美国佛罗里达大学杰出教授 美国科学院院士，科学与艺术学院院士 (外专千人计划，云南省千人计划)

刘晖：中国科学院昆明植物研究所副研究，海内外急需人才。

陈斯云：工程师

发表文章: 80 篇；SCI 70 篇，通讯作者和共同通讯作者 39 篇，第一作者和共同第一作者 8 篇，通讯作者和第一作者在影响因子大于 9 刊物发表的文章 3 篇。

2020

所网站: http://english.kib.cas.cn/rh/rp/202002/t20200224_230132.html

院网站:

昆明学院生命科学学院, 中国科学院昆明植物研究所, 昆明, 中国。

http://english.cas.cn/newsroom/research_news/life/202002/t20200224_230136.shtml

2022

92 Heather Kates, Brian C O'Meara, Raphael LaFrance, Gregory W Stull, Euan K James, Shuiyin Liu, Qin Tan, **Ting-shuang Yi**, Jean-Michel Ane, Daniel Conde, Matias Kirst, Douglas E Soltis, Robert P Guralnick, Pamela S Soltis, Ryan A Folk, 2022. Two shifts in evolutionary lability underlie independent gains and losses of root-nodule symbiosis in a single clade of plants. *BioRxiv*.

91 Fu Xiao-Gang[†], Liu Shui-Yin[†], Velzen van Robin, Stull W. Gregory, Tian Qin, Li Yun-Xia, Folk A. Ryan, Guralnick P. Robert, Kates R. Heather, Jin Jian-Jun, Li Zhong-Hu, Soltis E. Douglas, Soltis S. Pamela, **Yi Ting-Shuang***. Phylogenomic analysis of the hemp family (Cannabaceae) reveals deep cyto-nuclear discordance and provides new insights into generic relationships. *Journal of Systematics and Evolution*. <https://doi.org/10.1111/jse.12920> (One year IF_{1 year} = 3.544/ IF_{5 years} = 4.280/Botany 领域 Top = 26.47%)

91. Guo Cen, Luo Yang, Gao Lian-Ming, **Yi Ting-Shuang**, Li Hong-Tao, Yang Jun-Bo, Li De-Zhu, 2022. Phylogenomics and the flowering plant tree of life. *Journal of Integrative Plant Biology*. doi: 10.1111/jipb.13415. (One year IF_{1 year} = 9.106/ IF_{5 years} = 8.241/Botany 领域 Top = 4.18%)

90 Liu Jie, Milne I Richard, Zhu Guang-Fu, Spicer A Robert, Wambulwa C Moses, Wu Zeng-Yuan, Boufford E David, Luo Ya-Huang, Provan Jim, **Yi Ting-Shuang**, Cai Jie, Wang Hong, Gao Lian-Ming, Li De-Zhu, 2022. Name and scale matters: Clarifying the geography of Tibetan Plateau and adjacent mountain regions. *Global and Planetary Change*. doi:

10.1016/j.gloplacha.2022.103893. (One year IF_1 year = 4.956/ IF_5 years = 5.869/Botany 领域 Top = 16.67%)

89 Wang Zi-xun[†], Wang Ding-Jie[†], **Yi Ting-Shuang***, 2022. Does IR-loss promote plastome structural variation and sequence evolution. *Frontiers in Plant Science* doi: 10.3389/fpls.2022.888049. (One year IF_1 year = 6.627/ IF_5 years = 7.255/plant sciences 领域 Top = 8.4%)

88 Rahaingoson Robert Fabien, Oyebanji Oyetola, Stull W. Gregory, Zhang Rong, **Yi Ting-Shuang***. A dated phylogeny of the pantropical genus *Dalbergia* L.f. (Leguminosae: Papilionoideae) and its implications for historical biogeography. *Agronomy* 2022, 12, 1612. doi: 10.3390/agronomy12071612 (One year IF_1 year = 3.949/ IF_5 years = 4.117/Botany 领域 Top = 20%)

87 Zhao Lei, Yang Ying-ying, Qu Xiao-Jian, Ma Hong, Hu Yi, Li Hong-Tao, **Yi Ting-Shuang***, Li De-Zhu*, 2022. Phylotranscriptomic analyses reveal multiple whole-genome duplication events, the history of diversification and adaptations in the Araceae. *Annals of Botany* doi: 10.1093/aob/mcac062. (One year IF_1 year = 4.357/ IF_5 years = 5.490/Botany 领域 Top = 13.62%)

86 Ji Yunheng*, Yang Jin, Landis B. Jacob, Wang Shuying, Jin Lei, Xie Pingxuan, Liu Haiyang, Yang Jun-Bo*, **Yi Ting-Shuang***, 2022. Genome skimming contributes to clarifying species limits in *Paris* section *Axiparis* (Melanthiaceae). *Frontiers in Plant Science* doi: 10.3389/fpls.2022.832034. (One year IF_1 year = 6.627/ IF_5 years = 7.255/plant sciences 领域 Top = 8.4%)

2021

85 Li Hong-Tao[†], Luo Yang[†], Gan Lu[†], Ma Peng-Fei[†], Gao Lian-Ming[†], Yang Jun-Bo[†], Cai Jie[†], Gitzendanner A. Matthew, Fritsch W. Peter, Zhang Ting, Jin Jian-Jun, Zeng Chun-Xia, Wang Hong, Yu Wen-Bin, Zhang Rong, van der Bank Michelle, Olmstead G. Richard, Hollingsworth M. Peter, Chase W. Mark, Soltis

- E. Douglas, Soltis S. Pamela, **Yi Ting-Shuang***, Li De-Zhu*, 2021. Plastid phylogenomic insights into relationships of all flowering plant families. *BMC Biology* 19:232. (One year IF_{1 year} = 7.364/ IF_{5 years} = 8.641/Biology 领域 Top =10.64%)
- 84** Wang Xia[†], Liu Shengjun[†], Zuo Hao[†], Zheng Weikang[†], Zhang Shanshan[†], Huang Yue, Pingcuo Gesang, Ying Hong, Zhao Fan, Li Yuanrong, Liu Junwei, **Yi Ting-Shuang**, Zan Yanjun, Larkin M. Robert, Deng Xiuxin, Zeng Xiuli*, Xu Qiang*, 2021. Genomic basis of high-altitude adaptation in Tibetan Prunus fruit trees. *Current Biology* 31: 3848–3860. (IF_{1 year} = 10.900/IF_{5 years} = 12.621/ Biology 领域 Top = 3.19%)
- 83** Stull W. Gregory[†], Qu Xiao-Jian[†], Parins-Fukuchi Caroline, Yang Ying-Ying, Yang Jun-Bo, Yang Zhi-Yun, Hu Yi, Ma Hong, Soltis S. Pamela, Soltis E. Douglas, Li De-Zhu*, Smith A. Stephen*, **Yi Ting-Shuang***, 2021. Gene duplications and phylogenomic conflict underlie major pulses of phenotypic evolution in gymnosperms. *Nature Plants* 7, 1015–1025. doi: 10.1038/s41477-021-00964-4 (IF_{1 year} = 17.352/ IF_{5 years} = 19.328/Plant Sciences 领域 Top = 1.68%;高引论文).
- 82.** Yang Ying-Ying, Qu Xiao-Jian, Zhang Rong, Stull W. Gregory*, **Yi Ting-Shuang***, 2021. Plastid phylogenomic analyses of Fagales reveal signatures of conflict and ancient chloroplast capture. *Molecular Phylogenetics and Evolution* 163:107232. (IF_{1 year} = 5.019/ IF_{5 years} = 4.780/Evolution Biology 领域 Top = 21.57%).
- 81.** Zhao Yiyong, Zhang Rong, Jiang Kai-Wen, Qi Ji, Hu Yi, Guo Jing, Zhu Renbin, Zhang Taikui, Egan N. Ashley, **Yi Ting-Shuang***, Huang Chien-Hsun*, Ma Hong*, 2021. Nuclear phylotranscriptomics and phylogenomics support numerous polyploidization events and hypotheses for the evolution of rhizobial

nitrogen-fixing symbiosis in Fabaceae. *Molecular Plant* 14: 748–773. (IF_{1 year} = 21.949/ IF_{5 years} = 19.617/Plant Sciences领域Top = 0.84%；高引论文).

2020

- 80.** Jin Jian-Jun[†], Yu Wei-Bin[†], Yang Jun-Bo, Song Yu, dePamphilis W. Claude, **Yi Ting-Shuang***, Li De-Zhu*, 2020. GetOrganelle: a fast and versatile toolkit for accurate de novo assembly of organelle genomes. *Genome Biology* 21:241. (IF_{1 year} = 13.583/ IF_{5 years} = 17.433/ Genetics & Heredity领域Top = 1.60%；高引和热点论文).
- 79.** Han-Rui Bai, Oyetola Oyeboji, Rong Zhang*, **Yi Ting-Shuang***, 2020. New insights into plastome structural diversification in subfamily Dialioideae (Leguminosae). *Plant Diversity* 43: 27–34. (IF_{1 year} = 2.528/ IF_{5 years} = NA/领域Top = 38.72%).
- 78.** Jin Dong-Min, Wicke Susann, Gan Lu, Yang Jun-Bo*, Jin Jian-Jun*, **Yi Ting-Shuang***, 2020. The loss of the inverted repeat in the putranjivoid clade of Malpighiales. *Frontiers in Plant Science*: 11:942. (IF_{1 year} = 5.753/ IF_{5 years} = 6.612/领域Top = 7.26%).
- 77.** Jin Dong-Min, Jin Jian-Jun, **Yi Ting-Shuang***, 2020. Plastome structural conservation and evolution in the clusioid clade of Malpighiales. *Scientific Reports* 10: 9091. (IF_{1 year} = 4.379/ IF_{5 years} = 5.133/领域Top = 15.08%).
- 76.** Zhang Rong[†], Wang Yin-Huan[†], Jin Jian-Jun[†], Stull W. Gregory, Bruneau Anne, Cardoso Domingos, de Queiroz Luciano Paganucci, Moore J. Michael, Zhang Shu-Dong, Chen Si-Yun, Wang Jian, Li De-Zhu*, **Yi Ting-Shuang***, 2020. Exploration of plastid phylogenomic conflict yields new insights into the deep relationships of Leguminosae. *Systematic Biology* 69:613–622. (IF_{1 year} = 15.683/ IF_{5 years} = 12.338/Evolution Biology/领域Top = 3.85%；高引论文).
- 75.** Oyeboji Oyetola, Zhang Rong, Chen Si -Yun, **Yi Ting-Shuang***, 2020. New insights into the plastome evolution of the Millettoid/Phaseoloid Clade (Papilionoideae, Leguminosae). *Frontiers in Plant Science* 9: 138. (IF_{1 year} = 5.753/ IF_{5 years} = 6.612/领域Top = 7.26%).

74. Jin Jian-Jun, Yang Mei-Qing, Fritsch W. Peter, Velzen van Robin, Li De-Zhu*, **Yi Ting-Shuang***, 2020. Born migrators: historical biogeography of the cosmopolitan family Cannabaceae. *Journal of Systematics and Evolution* 58: 461–473. (IF_{1 year} = 4.098/ IF_{5 years} = 4.735/领域Top = 17.45%).

2019

73. Ji Yunheng^{†*}, Yang Lifang, Chase W. Mark, Liu Changkun, Yang Zhenyan, Yang Jin, Yang Jun-Bo*, **Yi Ting-Shuang***, 2019. Plastome phylogenomics, biogeography, and clade diversification of *Paris* (Melanthiaceae). *BMC Plant Biology* 19: 543. (IF_{1 year} = 3.497/ IF_{5 years} = 4.494/领域Top = 16.24%).

72. Qu Xiao-Jian, Fan Shou-Jin, Wicke Susann*, **Yi Ting-Shuang***, 2019. Plastome reduction in the only parasitic gymnosperm *Parasitaxus* is due to losses of photosynthesis but not housekeeping genes and apparently involves the secondary gain of a large inverted repeat. *Genome Biology and Evolution* 11: 2789–2796. (IF_{1 year} = 3.462/ IF_{5 years} = 3.926/领域Top = 34%).

71. Jin Dong-Min, Gan Lu, Jin Jian-Jun, **Yi Ting-Shuang***, 2019. The plastid genome of *Klainedoxa gabonensis* Pierre ex Engl. (Malpighiales). *Mitochondrial DNA Part B* 4: 2541–2542. (IF_{1 year} = 0.885/ IF_{5 years} = 0.845/领域Top = 94%).

70. Zhang Rong, Jin Jian-Jun, Moore Michael J., **Yi Ting-Shuang***, 2019. Assembly and comparative analyses of the mitochondrial genome of *Castanospermum australe* (Papilionoideae, Leguminosae). *Australian Systematic Botany* 32: 484–494. (IF_{1 year} = 0.985/ IF_{5 years} = 1.144/领域Top = 72.22%).

69. Ji Yunheng^{†*}, Liu Changkun, Yang Zhenyan, Yang Lifang, He Zhengshan, Wang Hengchang, Yang Junbo*, **Yi Ting-Shuang***, 2019. Testing and using complete plastomes and ribosomal DNA sequences as the next generation DNA barcodes in *Panax* (Araliaceae). *Molecular Ecology Resources* 19: 1333–1345 (IF_{1 year} = 6.286/ IF_{5 years} = 7.488/领域Top = 7.74%).

68. Li Hong-Tao[†], **Yi Ting-Shuang[†]**, Gao Lian-Ming[†], Ma Peng-Fei[†], Zhang Ting[†], Yang Jun-Bo[†], Gitzendanner Matthew A[†], Fritsch Peter W., Cai Jie, Luo Yang, Wang Hong, Bank Michelle van der, Zhang Shu-Dong, Wang Qing-Feng, Wang

- Jian, Zhang Zhi-Rong, Fu Chao-Nan, Yang Jing, Hollingsworth Peter M., Chase Mark W., Soltis Douglas E., Soltis Pamela S. *, Li De-Zhu *, 2019. Origin of angiosperms and the puzzle of the Jurassic gap. *Nature Plants* 5: 461–470. (IF_{1 year} / IF_{5 years} = 14.576/Plant Science 领域Top = 1.28%；高引和热点论文；入选近五年(2017-2022)中国植物系统和进化生物学代表性成果（葛颂，2022）。
67. Qu Xiao-Jian, Moore Michael J., Li De-Zhu *, **Yi Ting-Shuang** *, 2019. PGA: a software package for rapid, accurate, and flexible batch annotation of plastomes. *Plant Methods* 15: 50. (IF_{1 year} / IF_{5 years} = 4.266/领域 Top = 15.38%). (高引和热点论文)
66. Gang Yao, Jin Jian-Jun, Li Hong-Tao, Yang Jun-Bo, Mandala Venkata Shiva, Croley Matthew, Mostow Rebecca, Douglas Norman A., Chase Mark W., Christenhusz Maarten J. M., Soltis Douglas E., Soltis Pamela S., Smith Stephen A., Brockington Samuel F., Moore Michael J., **Yi Ting-Shuang** *, Li De-Zhu *, 2019. Plastid phylogenomic insights into the evolution of Caryophyllales. *Molecular Phylogenetics and Evolution* 134: 74–86. (IF_{1 year} = 3.496 /IF_{5 years} = 3.883/领域 Top = 24%).
65. Zheng Xu, **Yi Ting-Shuang** *, 2019. The plastid genome of *Pentadiplandra brazzeana* Baill. (Pentadiplandraceae). *Mitochondrial DNA Part B* 2: 4002–4003. (IF_{1 year} = 0.885/ IF_{5 years} = 0.845/领域Top = 94%).
64. Wang Zi-Xun, Jin Dong-Min, Wang Guodong, **Yi Ting-Shuang** *, 2019. The complete plastome of *Ctenolophon englerianus* Mildbr. (Ctenolophonaceae). *Mitochondrial DNA Part B* 4: 3379–3380. (IF_{1 year} = 0.885/ IF_{5 years} = 0.845/领域Top = 94%).

2018

63. Wariss Muhammad Hafiz, **Yi Ting-Shuang**, Wang Hong, Zhang Rong *, 2018. The chloroplast genome of a rare and an endangered species *Salweenia bouffordiana* (Leguminosae) in China. *Conservation Genetics Resources* 10: 405–407. (IF_{1 year} = 1.154/ IF_{5 years} = 0.614/领域 Top = 70.69%)
62. Wariss Muhammad Hafiz, **Yi Ting-Shuang**, Wang Hong, Zhang Rong *, 2018. Characterization of the complete chloroplast genome of *Dalbergia odorifera* (Leguminosae), a rare and critically endangered legume endemic to

China. *Conservation Genetics Resources* 10: 527–530. (IF_{1 year} = 1.154/ IF_{5 years} = 0.614/领域 Top = 70.69%)

61. Zhang Rong, **Yi Ting-Shuang**, Pan Bo, 2018. *Pseudartria panii* (Fabaceae: Desmodieae), a new species from Asia, 120 years after its first collection. *Phytotaxa* 367: 265–274. (IF_{1 year} = 1.168/ IF_{5 years} = 1.131/领域 Top = 62.28%).
60. Zhang Huan-Lei, Jin Jian-Jun, Moore J. Michael, **Yi Ting-Shuang**^{*}, Li De-Zhu^{*}, 2018. Plastome characteristics of Cannabaceae. *Plant Diversity* 40: 127–137. (IF_{1 year} = n/a/ IF_{5 years} = n/a /领域 Top = n/a).
59. Wang Yin-Huan, Wicke Susann, Wang Hong, Jin Jian-Jun, Chen Si-Yun, Zhang Shu-Dong, Li De-Zhu^{*}, **Yi Ting-Shuang**^{*}, 2018. Plastid Genome Evolution in the Early-Diverging Legume Subfamily Cercidoideae (Fabaceae). *Frontiers in Plant Science* 9: 138. (IF_{1 year} = 4.106/ IF_{5 years} = 4.855/领域 Top = 8.77%).
58. Gitzendanner A. Matthew, Soltis S. Pamela, **Yi Ting-Shuang**, Li De-Zhu, Soltis E. Douglas, 2018. Plastome Phylogenetics: 30 Years of Inferences Into Plant Evolution. *Advances in Botanical Research* 85: 293–313. doi: 10.1016/bs.abr.2017.11.016. (IF_{1 year} = 2.291/ IF_{5 years} = 2.032/领域 Top = 32.46%).

2017

- *57. Zhang Shu-Dong[†], Jin Jian-Jun[†], Chen Si-Yun, Chase W. Mark, Soltis E. Douglas, Li Hong-Tao, Yang Jun-Bo, Li De-Zhu^{*}, **Yi, Ting-Shuang**^{*}, 2017. Diversification of Rosaceae since the Late Cretaceous based on plastid phylogenomics. *New Phytologist* 214: 1355–1367. (IF_{1 year} = 7.433/ IF_{5 years} = 7.833/Plant Sciences领域 Top = 3.00%; 高引论文).
56. Qu Xiao-Jian, Wu Chung-Shien, Chaw Shu-Miaw, **Yi Ting-Shuang**^{*}, 2017. Insights into the existence of isomeric plastomes in Cupressoideae (Cupressaceae). *Genome Biology and Evolution* 9: 1110–1119. (IF_{1 year} = 3.940/ IF_{5 years} = 4.171/领域 Top = 28.57%).
55. Qu Xiao-Jian, Jin Jian-Jun, Chaw Shu-Miaw, Li De-Zhu^{*}, **Yi Ting-Shuang**^{*}, 2017. Multiple measures could alleviate long-branch attraction in phylogenomic reconstruction of Cupressoideae (Cupressaceae). *Scientific Reports* 7: 41005. (IF_{1 year} = 4.122/ IF_{5 years} = 4.609/领域 Top = 18.75%).

54. Yang Mei-Qing, Li De-Zhu, Wen Jun*, **Yi Ting-Shuang***, 2017. Phylogeny and biogeography of the amphi-Pacific genus *Aphananthe*. *PLoS ONE* 12: e0171405. (IF_{1 year} = 2.766/ IF_{5 years} = 2.174/领域Top = 23.44%).
53. Wang Yin-Huan, Qu Xiao-Jian, Chen Si-Yun, Li De-Zhu*, **Yi Ting-Shuang***, 2017. Plastomes of Mimosoideae: structural and size variation, sequence divergence, and phylogenetic implication. *Tree Genetics & Genomes* 14: 41. (IF_{1 year} = 1.829/ IF_{5 years} = 2.014/领域Top = 31.81%).
52. Wang Yin-Huan, Wang Hong, **Yi Ting-Shuang***, Wang Yue-Hua*, 2017. The complete chloroplast genomes of *Adenolobus garipensis* and *Cercis glabra* (Cercidoideae, Fabaceae). *Conservation Genetics Resources* 9: 635–638. doi: 10.1007/s12686-017-0744-y. (IF_{1 year} = 0.470/ IF_{5 years} = 1.007/领域Top = 83%).
51. Liu Ping, Wen Jun*, **Yi Ting-Shuang***, 2017. Evolution of biogeographic disjunction between eastern Asia and North America in *Chamaecyparis*: Insights from ecological niche models. *Plant diversity* 39: 111–116. (IF_{1 year} = n/a/ IF_{5 years} = n/a/领域Top = n/a).
50. Wariss Hafiz Muhammad, **Yi Ting-Shuang**, Wang Hong, Zhang Rong*, 2017. The chloroplast genome of a rare and an endangered species *Salweenia bouffordiana* (Leguminosae) in China. *Conservation Genetics Resources* 10: 405–407. (IF_{1 year} = 0.470/ IF_{5 years} = 1.007/领域Top = 83%).
49. The Legume Phylogeny Working Group (LPWG), 2017. A new subfamily classification of the Leguminosae based on a taxonomically comprehensive phylogeny. *Taxon* 66: 44–77. (IF_{1 year} = 2.680/ IF_{5 years} = 2.964/领域Top = 23.77%; 高引论文).
48. Xiang Yezi[†], Huang Chien-Hsun[†], Hu Yi, Wen Jun, Li Shisheng, **Yi Ting-Shuang**, Chen Hongyi, Xiang Jun*, Ma Hong*, 2017. Evolution of Rosaceae fruit types based on nuclear phylogeny in the context of geological times and genome duplication. *Molecular Biology and Evolution* 34: 262–281. (IF_{1 year} = 10.217/ IF_{5 years} = 14.479/领域Top = 4.79%).

2016

47. Zhao Lei, Li Xia, Zhang Ning, Zhang Shu-Dong, **Yi Ting-Shuang**, Ma Hong, Guo Zhen-Hua*, Li De-Zhu*, 2016. Phylogenomic analyses of large-scale nuclear genes provide new insights into the evolutionary relationships within the rosids. *Molecular Phylogenetics and Evolution* 105: 166–176. (IF_{1 year} = 4.419/ IF_{5 years} = 4.462/领域 Top = 19.8%).
46. Meng Jing, He Shui-Lian, Li De-Zhu, **Yi Ting-Shuang***, 2016. Nuclear genetic variation of *Rosa odorata* var. *gigantea* (Rosaceae): population structure and conservation implications. *Tree Genetics & Genomes* 12: 65. (IF_{1 year} = 1.624/ IF_{5 years} = 2.014/领域 Top = 22.22%).
45. He Shui-Lian, Wang Yun-Sheng, Li De-Zhu*, **Yi Ting-Shuang***, 2016. Environmental and historical determinants of patterns of genetic differentiation in wild soybean (*Glycine soja* Sieb. et Zucc). *Scientific Reports* 6: 22795. (IF_{1 year} = 4.259/ IF_{5 years} = 4.874/领域 Top = 15.63%).
44. Yao Gang, Drew T. Bryan, **Yi Ting-Shuang**, Yan Hai-Fei, Yuan Yong-Ming, Ge Xue-Jun*, 2016. Phylogenetic relationships, character evolution and biogeographic diversification of *Pogostemon* s.l. (Lamiaceae). *Molecular Phylogenetics and Evolution* 98: 184–200. (IF_{1 year} = 4.419/ IF_{5 years} = 4.462/领域 Top = 19.8%).

2015

43. He Shui-Lian, Yang Yang, Morrell L. Peter, **Yi Ting-Shuang***. 2015. Nucleotide sequence diversity and linkage disequilibrium of four nuclear loci in foxtail millet (*Setaria italica*). *PloS One* 10: e0137088. (IF_{1 year} = 3.057/ IF_{5 years} = 3.535/领域 Top = 17.46%).
42. **Yi Ting-Shuang**, Jin Gui-Hua, Wen Jun*, 2015. Chloroplast capture and intra- and inter- continental biogeographic diversification in the Asian – New World disjunct plant genus *Osmorhiza* (Apiaceae). *Molecular Phylogenetics and Evolution* 85: 10–21. (IF_{1 year} = 3.792/ IF_{5 years} = 3.954/领域 Top = 27.71%).
41. Zhang Shu-Dong, Ling Li-Zhen, **Yi Ting-Shuang**, 2015. Evolution and divergence of SBP-box genes in land plants. *BMC Genomics* 16: 787. (O IF_{1 year} = 3.867/ IF_{5 years} = 4.276/领域 Top = 19.88%).

2014

40. Xie Lei, Yang Zhi-Yun, Wen Jun^{*}, Li De-Zhu, **Yi Ting-Shuang^{*}**, 2014. Biogeographic history of *Pistacia* (Anacardiaceae), emphasizing the evolution of the Madrean–Tethyan and the eastern Asian–Tethyan disjunctions. *Molecular Phylogenetics and Evolution* 77: 136–146. (IF_{1 year} = 3.916/ IF_{5 years} = 4.064/领域 Top = 21.73%).
39. Ishikawa Naoko, Ikeda Hajime, **Yi Ting-Shuang**, Takabe-Ito Eriko, Okada Hiroshi, Tsukaya Hirokazu, 2014. Lineage diversification and hybridization in the *Cayratia japonica*–*Cayratia tenuifolia* species complex. *Molecular Phylogenetics and Evolution* 75: 227–238. (IF_{1 year} = 3.916/ IF_{5 years} = 4.064 领域 Top = 21.73%).
38. Yang Zhi-Yun, **Yi Ting-Shuang**, Zeng Liang-Qin, Gong Xun^{*}, 2014. The population genetic structure and diversification of *Aristolochia delavayi* (Aristolochiaceae), an endangered species of the dry hot valleys of the Jinsha River, southwestern China. *Botany-Botanique* 92: 579–587. (IF_{1 year} = 1.224/ IF_{5 years} = 1.368/领域 Top = 57.34%).
37. 金桂花, 陈斯云, **伊廷双**, 张书东, 2014. 苹果叶绿体基因组特征分析。《植物分类与资源学报》36: 468–484。

2013

36. Wu Zeng-Yuan, Monro K. Alex, Milne I. Richard, Wang Hong, **Yi Ting-Shuang**, Liu Jie, Li De-Zhu^{*}, 2013. Molecular phylogeny of the nettle family (Urticaceae) inferred from multiple loci of three genomes and extensive generic sampling. *Molecular Phylogenetics and Evolution* 69: 814–827. (IF_{1 year} = 4.018/ IF_{5 years} = 3.989/领域 Top = 25.45%).
35. Li Xiang, Peng Li-Yan, Zhang Shu-Dong, Zhao Qin-Shi, **Yi Ting-Shuang^{*}**, 2013. The relationships between chemical and genetic differentiation and environmental factors across the distribution of *Erigeron breviscapus* (Asteraceae). *Plos One*: e74490. (IF_{1 year} = 3.534/ IF_{5 years} = 4.015/领域 Top = 14.55%).

34. Li Rong, Ma Peng-Fei, Wen Jun*, **Yi Ting-Shuang***, 2013. Complete sequencing of five Araliaceae chloroplast genomes and the phylogenetic implications. *Plos One*: e78568. (IF_{1 year} = 3.534/ IF_{5 years} = 5.015/领域Top = 14.55%).
33. Yang Mei-Qing, van Velzen Robin, Bakker T. Freek, Sattarian Ali, Li De-Zhu, **Yi Ting-Shuang***, 2013. Molecular phylogenetics and character evolution of Cannabaceae. *Taxon* 62: 473–495. (IF_{1 year} = 3.051/ IF_{5 years} = 2.708/领域Top = 17.59%).
32. Li Xiang, Zhang Shu-Dong, Yang Zhi-Yun, Song Ke-Xian, **Yi Ting-Shuang***, 2013. Conservation genetics and population diversity of *Erigeron breviscapus* (Asteraceae), and important Chinese herb. *Biochemical Systematics and Ecology* 49: 156–166. (IF_{1 year} = 1.170/ IF_{5 years} = 1.269/领域Top = 73.05%).
31. Yahara Tetsukazu, Javadi Firouzeh, Onoda Yusuke, de Queiroz Luciano Paganucci, Faith P. Daniel, Prado E. Darién, Akasaka Munemitsu, Kadoya Taku, Ishihama Fumiko, Davies Stuart, Slik J.W. Ferry, **Yi Ting-Shuang**, Ma Ke-Ping, Chen Bin, Darnaedi Dedy, Pennington R. Toby, Tuda Midori, Shimada Masakazu, Ito Motomi, Egan N. Ashley, Buerki Sven, Raes Niels, Kajita Tadashi, Vatanparast Mohammad, Mimura Makiko, Tachida Hidenori, Iwasa Yoh, Smith F. Gideon, Victor E. Janine, Nkonki Tandiwe, 2013. Global legume diversity assessment: concepts, key indicators, and strategies. *Taxon* 62: 249–266. (IF_{1 year} = 3.051/ IF_{5 years} = 2.708/领域Top = 17.59%).
30. 唐敏, **伊廷双**, 王欣, 谭美华, 周欣, 2013. Metabarcoding技术在植物鉴定和多样性研究中的应用。 *植物分类与资源学报* 35: 769–773. (ISSN 2095-0845) 6
29. 马莉萍, **伊廷双**, 左显维, 张彪, 李云霞, 韩根亮, 2013. 构建基于磁珠微流控芯片的iFlora遗传信息高效获取系统. *植物分类与资源学报* 35: 779–783. (ISSN 2095-0845) 1

2012

28. He Shui-Lian, Wang Yun-Sheng, Volis Sergei, Li De-Zhu*, **Yi Ting-Shuang***, 2012. Genetic diversity and population structure: implications for conservation

- of wild soybean (*Glycine soja* Sieb. et Zucc) based on nuclear and chloroplast microsatellite variation. *International Journal of Molecular Sciences* 13: 12608–12628. (IF_{1 year} = 2.464/ IF_{5 years} = 2.732/领域Top = 31.58%).
27. Li Rong, **Yi Ting-Shuang**, Li Heng, 2012. Is *Remusatia* (Araceae) monophyletic? Evidence from three plastid regions. *International Journal of Molecular Sciences* 13: 71–83. (IF_{1 year} = 2.464/ IF_{5 years} = 2.732/领域Top = 31.58%).
26. Yang Zhi-Yun, **Yi Ting-Shuang**, Pan Yue-Zhi, Gong Xun, 2012. Phylogeography of an alpine plant *Ligularia vellerea* (Asteraceae). *Journal of Systematics and Evolution* 50: 316–324. (IF_{1 year} = 1.851/ IF_{5 years} = 1.838/领域Top = 35.53%).
25. 李德铎, 王雨华, **伊廷双*** (通讯作者), 王红, 高连明, 杨俊波, 2012. 新一代植物志: iFlora. *植物分类与资源学报* 34: 525–531.
24. 李洪涛, 曾春霞, 高连明, **伊廷双**, 杨俊波, 2012. 遗传信息及其获取技术与 iFlora. *植物分类与资源学报* 34: 585–591.
23. 骆洋, 何延彪, 李德铎, 王雨华, **伊廷双**, 王红, 2012. 中国植物志、Flora of China和维管植物新系统中科的比较. *植物分类与资源学报* 34: 231–238.
22. 曾春霞, 杨俊波, 杨静, **伊廷双**, 林春艳, 2012. 关于iFlora创建工作框架的建议. *植物分类与资源学报* 34: 555–561.

2011

21. China Plant BOL Group, 2011. Comparative analysis of a large dataset indicates that ITS should be incorporated into the core barcode for seed plants. *Proceedings of the National Academy of Sciences, USA* 108: 19641–19646. (IF_{1 year} = 9.681/ IF_{5 years} = 10.472/领域Top = 5.36%; 高引论文).
20. Li Xiang, Song Ke-Xian, Yang Jing, **Yi Ting-Shuang***, 2011. Isolation and characterization of 11 new microsatellite loci in *Erigeron breviscapus* (Asteraceae), an important Chinese traditional Herb. *International Journal of Molecular Sciences* 12: 7265–7270. (IF_{1 year} = 2.598/ IF_{5 years} = 2.617/领域Top = 29.22%).
19. Meng Jing, Fougère-Danezan Marie, Zhang Li-Bing, Li De-Zhu*, **Yi Ting-Shuang***, 2011. Untangling the hybrid origin of the ancient Chinese tea roses:

evidence from DNA sequences of single-copy nuclear and chloroplast genes. *Plant Systematics and Evolution* 297: 157–170. (IF_{1 year} = 1.335/ IF_{5 years} = 1.707/领域Top = 51.05%).

18. Lu Jin-Mei, Li De-Zhu, Lutz Sue, Soejima Akiko, **Yi Ting-Shuang**, Wen Jun*, 2011. Biogeographic disjunction between eastern Asia and North America in the *Adiantum pedatum* complex (Pteridaceae). *American Journal of Botany* 98: 1680–1693. (IF_{1 year} = 2.664/ IF_{5 years} = 3.159/领域Top = 24.75%).
17. Zhang Shu-Dong, Soltis E. Douglas, Yang Yang, Li De-Zhu*, **Yi Ting-Shuang***, 2011. Multi-gene analysis provides a well-supported phylogeny of Rosales. *Molecular Phylogenetics and Evolution* 60: 21–28. (IF_{1 year} = 3.609/ IF_{5 years} = 3.982/领域Top = 27.88%).
16. Zhou Yan-Ying, Luo Shi-Hong, **Yi Ting-Shuang**, Li Chun-Huan, Luo Qian, Hua Juan, Liu Yan, Li Sheng-Hong, 2011. Secondary metabolites from *Glycine soja* and their growth inhibitory effect against *Spodoptera litura*. *Journal of Agricultural and Food Chemistry* 59: 6004–6010. (IF_{1 year} = 2.823/ IF_{5 years} = 3.829/领域Top = 5.26%).

2010

15. Xie Lei, **Yi Ting-Shuang***, Li Rong, Li De-Zhu, Wen Jun*, 2010. Evolution and biogeographic diversification of the witch-hazel genus (*Hamamelis* L., Hamamelidaceae) in the Northern Hemisphere. *Molecular phylogenetics and Evolution* 56: 675–689. (IF_{1 year} = 3.889/ IF_{5 years} = 4.394/领域Top = 26.67%).
14. Song Ke-Xian, Wang Yu-Hua, **Yi Ting-Shuang**, Yang Zhi-Yun, 2010. Karyological studies of *Erigeron breviscapus* and related species. *Caryologia* 63: 176–183. (IF_{1 year} = 0.389/ IF_{5 years} = 0.445/领域Top = 94.23%).

2009

13. Meng Jing, Li De-Zhu, **Yi Ting-Shuang***, Yang Jun-Bo, Zhao Xing-Feng, 2009. Development and characterization of microsatellite loci for *Rosa odorata* var.

gigantea Rehder & E. H. Wilson (Rosaceae). *Conservation Genetics* 10: 1973–1976. (IF_{1 year} = 1.849/ IF_{5 years} = 2.297/领域 Top = 41.38%).

2008

12. **Yi Ting-Shuang**, Wen Jun*, Golan-Goldhirsh Avi, Parfitt E. Dan, 2008.

Phylogenetics and reticulate evolution in *Pistacia* (Anacardiaceae). *American Journal of Botany* 95: 241–251. (IF_{1 year} = 02.642/ IF_{5 years} = 3.151/领域 Top = 17.31%).

11. Wen Jun, Berggren T. Scott, Lee Chung-Hee, Ickert-Bond Stefanie, **Yi Ting-Shuang**, Yoo Ki-Oug, Xie Lei, Shaw Joey, Potter Dan, 2008. Phylogenetic inferences in *Prunus* (Rosaceae) using chloroplast *ndhF* and nuclear ribosomal ITS sequences. *Journal of Systematics and Evolution* 46: 322–332. (IF_{1 year} = NA/ IF_{5 years} = NA/领域 Top = 98.08).

2007

10. **Yi Ting-Shuang**, Miller J. Allison, Wen Jun*, 2007. The phylogeny of *Rhus* (Anacardiaceae) based on sequences of nuclear *NIA-i3* intron and chloroplast *trnC-D* suggests reticulate evolution. *Systematic Botany* 32: 379–391. (IF_{1 year} = 1.632/ IF_{5 years} = 1.905/领域 Top = 32.89%).

9. Dillon O. Dillon, Tu Tie-Yao, Soejima Akiko, **Yi Ting-Shuang**, Nie Ze-Long, Tye Alan, Wen Jun, 2007. Phylogeny of *Nolana* (Nolaneae, Solanoideae, Solanaceae) as inferred from granule-bound starch synthase I (GBSSI) sequences. *Taxon* 56: 1000–1011. (IF_{1 year} = 2.524/ IF_{5 years} = 2.444/领域 Top = 16.45%).

2005

8. **Yi Ting-Shuang**, Li Heng, Li De-Zhu*, 2005. Chromosome studies on the genus *Pinellia* (Araceae). *Botanical Journal of the Linnean Society* 147: 449–455. (IF_{1 year} = 1.462/ IF_{5 years} = NA/领域Top = 37.50%).

2004

7. **Yi Ting-Shuang**, Miller J. Allison, Wen Jun*, 2004. Phylogenetic and biogeographic diversification of *Rhus* (Anacardiaceae) in the Northern Hemisphere. *Molecular and Phylogenetic Evolution* 33: 861–879. (IF_{1 year} = 4.213/ IF_{5 years} = 3.400/领域Top = 20%).
6. **Yi Ting-Shuang**, Lowry II P. Porter, Plunkett M. Gregory, Wen Jun*, 2004. Chromosomal evolution in Araliaceae and close relatives. *Taxon* 53: 987–1005. (IF_{1 year} = 1.752/ IF_{5 years} = NA/领域Top = 44.85%).

2003

5. Yang Zhi-Yun, **Yi Ting-Shuang**, Li Heng, Gong Xun, 2003. A cytological study on three species of *Colocasia* (Araceae) from Yunnan. *Caryologia* 56: 323–327. (IF_{1 year} = 0.337/ IF_{5 years} = NA/领域Top = 91.67%).

2002

4. 伊廷双, 李恒, 李德铎*, 2002. 天南星科分类系统的沿革. *武汉植物学研究* 20: 48–61.

2001

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发明专利:

名称: 罂粟 DNA 条形码测序及分子鉴定方法; 授权号: CN108588258 B; 排序: 3; 授权时间: 2021.07.23; 授权国别和组织: 中国, 国家知识产权局; 类别: 方法发明。

名称: 使用 SSR 分子标记对罂粟的鉴定方法; 授权号: CN108754007 B; 排序: 3; 授权时间: 2021.03.19; 授权国别和组织: 中国, 国家知识产权局; 类别: 方法发明。

学术机构任职:

国际学术期刊 *Frontiers in Plant Science*, 副主编 (*Plant Systematics and Evolution*), 2020.01–今

中国植物学会会员 Member of Botanical Society of China

云南省植物学会第十三届理事会理事 member of the 13th council of the botanical society of Yunnan province, 2020.11.1–2024.10.31

国家林业和草原局野生植物保护专家咨询委员会委员 (2023.1.1-1024.12.31)

中国科学院昆明植物研究所第十二届学术委员会委员 (2020.6.19–2025.6.18)

中国科学院昆明植物研究所第五届学位评定委员会委员 (2020.7.2–2024.7.1)

中国西南野生生物种质资源库第二届科技委员会暨国家重要野生植物种质资源库第一届科技委员会委员 2020.11.23–2024.11.22

社会兼职：

中国人民政治协商会议昆明市盘龙区第十届委员会 政协委员 常务委员
2022.01–2026.12

获奖及荣誉：

2012，中国科学院王宽诚西部学者突出贡献奖。

（中国科学院王宽诚人才奖是由中国科学院使用[王宽诚教育基金会](#)设立的人才激励奖项。中国科学院王宽诚人才奖包括“中国科学院王宽诚西部学者突出贡献奖”（“中国科学院王宽诚西部学者突出贡献奖”鼓励青年科技人才扎根西部、服务西部，对为科技事业发展和地方经济建设做出突出贡献的在西部研究所工作的学者给予奖励。每年奖励 45 周岁（含）以下、担任副高级及以上专业技术职务、在西部工作 5 年以上的学者 20 名）、[“中国科学院卢嘉锡青年人才奖”](#)、“中国科学院王宽诚博士后工作奖励基金”。）

2017，云南省中青年学术技术带头人。

会议和学术报告：

主持会议：

Tetsukazu Yahara, **Tingshunag Yi**, Firouzeh Javadi, 2018.8.29–9.2. Legume Diversity in Asia. 7th International Legume Conference, Sendai, Japan

联合组织和主持（Tetsukazu Yahara, **Tingshunag Yi**, Firouzeh Javadi）了于 2018.8.29–9.2 在日本仙台召开的 7th International Legume Conference 专题“Legume Diversity in Asia”。

Tingshuang Yi, Manuel de la Estrella, 2017.7.23–29. T2-59: Phylogenomics and Evolution of Legumes. 19th International Botanical Conference (IBC), Shenzhen, Guangdong, China.

联合组织和主持（**Tingshuang Yi**, Manuel de la Estrella）了于 2017.7.23–7.29 在深圳召开的 19th International Botanical Conference (IBC) 专题“Phylogenomics and Evolution of Legumes”（ T2-59）。

参加会议:

伊廷双, 2022.12.1–12.3, 应邀参加中国 腾冲科学家论坛。

伊廷双, 2022.8.25–8.26, 应邀参加第八届吴征镒生物多样性青年学术论坛, 并作为“植物资源保护与利用组”的研究生学术报告以及墙报展示组的评委嘉宾。

伊廷双, 2022.9.19–7.22, 参加首届植物科学前沿学术大会。

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伊廷双, 2018.4.27–29. Phylogenomic insights into the species and fruits diversification of Rosaceae. 山东师范大学生命科学学院优秀校友母校行暨“植物学与动物学”前沿学术论坛, 济南, 山东, 中国。

Tingshuang Yi, 2017. 11. 6–8. Phylogenomics and Plastome Evolution of Legumes. Sino-Latin America Symposium on plant biodiversity, Guangzhou, China.

Tingshuang Yi, 2017.7.23–29. Plastid phylogenomics reveals deep relationships of Leguminosae. A meeting report at 19th International Botanical Conference (IBC), Shenzhen, Guangdong, China. (分会报告)

Tingshuang Yi, 2016.10.19–21. Plastid phylogenomics resolve difficult phylogenetic relationships of angiosperms. The 2016 CHINA-US Biodiversity Workshop --- Building Sino-US Collaboration Platform in Biodiversity Studies, Hangzhou, Zhejiang, China.

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- Tingshuang Yi, 2014. 6.19. The phylogenomics of *Malus*. An academic report at the Missouri Botanic Garden (invited by Libing Zhang).
- 伊廷双, 2014.5.15. The Biogeography of North Hemisphere. 上海辰山植物园学术报告 (田代科邀请)。
- Tingshuang Yi, 2013.10. 27–31. Chloroplast capture and genetic diversification in *Osmorhiza* (Apiaceae). A meeting report at 2013 Fifth International Barcode of Life Conference, Kunming, China.
- 伊廷双, 2011.11.14–12.1. Phylogeny and historical biogeography of *Pistacia* (Anacardiaceae) as inferred from multiple nuclear and plastid DNA sets. “海峡两岸生物多样性学术研讨会”, 台湾。(分会报告)
- 伊廷双, 2011.10.25–28. Phylogeny and Historical biogeography of *Pistacia*. 全国系统与进化植物学研讨会暨第十届青年学术研讨会, 昆明, 中国。(分会报告)
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- Tingshuang Yi, 2010. New Frontiers in Systematic and Evolutionary Biology, Beijing.
- Tingshuang Yi, Susan Kalisz, 2006. The evolution of *Cycloidea* in *Collinsia* and *Antirrhinum*. A poster presented by Tingshuang Yi at the Evolution 2006 Meetings, Stony Brook, New York
- Tingshuang Yi, Allison J. Miller, Jun Wen. 2004. Phylogenetic and biogeographic diversifications of *Rhus* (Anacardiaceae) in the Northern Hemisphere. A poster presented by Jun Wen at the Botany 2004 Meetings, Snowbird, Utah, USA.

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Conferences:

Chaired Conferences:

Tetsukazu Yahara, Tingshunag Yi, Firouzeh Javadi, 2018.8.29–9.2. Legume
Diversity in Asia. 7th International Legume Conference, Sendai, Japan

Tingshuang Yi, Manuel de la Estrella, 2017.7.23–29. T2-59: Phylogenomics and
Evolution of Legumes. 19th International Botanical Conference (IBC), Shenzhen,
Guangdong, China.

Attending Conferences and report:

伊廷双, 2022.10.14. Phylogenomic insights on the tempo and mode of gymnosperm
evolution.辰山植物园, 上海, 中国。

伊廷双, 2022.8.14. Phylogenomic insights on the tempo and mode of gymnosperm
evolution.昆明植物研究所, 云南, 中国。

Yi Ting-shuang, 2021.10.25-10.31. Phylogenomics of legumes. An invited plenary
speeches at the 16th international conference on Genomics, Qingdao, Shandong,
China.

伊廷双, 2021.7.9-7.14. 豆科分子系统和进化研究进展. 第十一届西部地区植物
科学与资源利用研讨会 (大会特邀报告), 桂林, 广西, 中国。

伊廷双, 2021.6.10. 豆科分子系统和进化研究进展. 2021 亚热带生物多样性与绿
色发展研讨会 (邀请报告), 景德镇, 江西, 中国。

Yi Ting-Shuang, 2020.11.12–11.14. Plastid phylogenomics. A keynote report at the
13th Member Representative Conference of Yunnan Botany Society, Kunming,
Yunnan, China.

Yi Ting-Shuang, 2019.12.6–12.8. Platid phylogenomics of Fabaceae. A plenary talk
at the 4th Biology Systematic Conference, Beijing, China.

- Yi Ting-Shuang, 2019.10.27–10.29. The Germplasm Bank of Wild Species of CAS supports plant resource protection and sustainable use. A special talk at GSPC International Conference, Dujiangyan, Chengdu, China.
- Yi Ting-Shuang, 2019.5.6–5.8. Plastid phylogenomic insights into deep relationships of Leguminosae with conflicting signals on some nodes. A special talk at the International Conference on the Status of Plant & Animal Genome Research (PAG Asia 2019), Shenzhen, Guangdong, China.
- Yi Ting-Shuang, 2018.12.20–12.30. Plastid phylogenomic insights into the evolution of legumes. A plenary talk at the 15th Member Representative Conference of Shandong Botany Society, Jinan, China.
- Yi Ting-Shuang, 2018.12.8–12.9. Plastid phylogenomics of Fabaceae. A plenary talk at the 3rd Biology Systematic Conference, Beijing, China.
- Yi Ting-Shuang, 2018. 8.29–9.2. Plastid phylogenomic insights into the evolution of legumes. A special report at the 7th International Legume Conference, Sendai, Japan.
- Yi Ting-Shuang, 2018. 7.20–7.26. Plastid phylogenomic insights into the evolution of Caryophyllales. A special report at the Botany 2018 conference, USA, Rochester, Minnesota, USA.
- Yi Ting-Shuang, 2017.7.23–7.29. Plastid phylogenomics reveals deep relationships of Leguminosae. A special report at 19th International Botanical Conference (IBC), Shenzhen, Guangdong, China.
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- Yi Ting-Shuang, 2013.10. 27–10.31. Chloroplast capture and genetic diversification in *Osmorhiza* (Apiaceae). A special report at 2013 Fifth International Barcode of Life Conference, Kunming, Yunnan, China.
- Yi Ting-Shuang, 2011.11.14–12.1. Phylogeny and historical biogeography of *Pistacia* (Anacardiaceae) as inferred from multiple nuclear and plastid DNA sets. A

special report at Symposium on Biodiversity Across the Taiwan Straits,
Taizhong, Taiwan, China.

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Pistacia. A special report at National Phylogenetics and Evolution Symposium
and the 10th Youth Academic Symposium, Kunming, Yunnan, China.

会议论文:

Ting-Shuang Yi, Jian-Jun Jin, Yin-Huan Wang, Rong Zhang, 2018. Plastid
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Conference, Sendai, Japan. (abstract)

Rong Zhang, Yin-Huan Wang, Jian-Jun Jin, De-zhu Li, Ting-Shuang Yi, 2018. Plastid
Phylogenomics offers resolution of a phylogenomic framework of the
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主持和参加基金: 共主持和参加科研项目 32 项, 获得经费为 3860.01 万元,
5000 美元; 主持科研国家和省部级项目、课题和子课题 24 项, 获得经费
3715.01 万元。参加项目 4 项, 获得经费 108 万元。

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Project of Yunnan, China (2017HA014)

省重: 云南省作物野生近缘种现代组学重点实验室(Yunnan Key
Laboratory for Crop Wild Relatives Omics)

Germplasm Bank of Wild Species, Yunnan Key Laboratory for Crop Wild
Relatives Omics, Kunming Institute of Botany, Chinese Academy of
Sciences, Kunming, Yunnan 650201, China

2023.01.01–2024.12.31, 20 万。先进造纸联合实验室开放课题。

2020.09.01–2023.06.30 大尺度区域生物多样性格局与生命策略。中国科学院战略性先导科技专项（B类）（专项负责人：李德铎）。中国西南山地生物多样性的形成与演化，中国科学院 B 类先导科技专项攻关团队任务二（任务负责人：高连明）。大尺度区域生物多样性格局与生命策略（项目负责人：李德铎；项目号：XDB31010000）。西南山地植物多样性的格局动态与成因（课题负责人：伊廷双；课题号：XDB31010100；经费 221.31 万）。Supported by the Strategic Priority Research Program of Chinese Academy of Sciences, Grant No. XDB31010000

2020.01.01–2024.12.31，轻纺用野生纤维资源植物科学调查。科技部科技基础资源调查项目（经费 800 万；项目负责人：李海龙；项目号：2019FY100900）。我国轻纺用野生纤维植物调查、种质保藏和分子鉴定（第一课题负责人；经费 175 万）。the Science and Technology Basic Resources Investigation Program of China (2019FY100900); The Ministry of Science and Technology, China

2018.07.01–2023.06.30，大尺度区域生物多样性格局与生命策略。中国科学院战略性先导科技专项（B类）（专项负责人：李德铎）。大尺度区域生物多样性格局与生命策略（项目负责人：李德铎；项目号：XDB31000000）。西南山地种子植物多样性分布格局和成因（子课题号：XDB31010102；子课题负责人；经费 400 万）。Supported by the Strategic Priority Research Program of Chinese Academy of Sciences, Grant No. XDB31010000

2019.01.01–2023.12.31，¥100 万。西南山地生物多样性格局与气候要素的耦合关系。“Thousand Talents Plan” of Yunnan Province "云南省高端外国专家"专项(项目批准号: YNQR-GDWG-2018-012; "High-End Foreign Experts" Program)（项目负责人：Douglas Edward Soltis, 伊廷双）。the Yunling International High-end Experts Programme of Yunnan Province; The Science and Technology Department of Yunnan Province

- 2019.01.01–2021.12.31, 1100 万。重大成果培育项目。国家重大科技基础设施。
- 2018.01.01–2022.12.31, ¥100 万。蔷薇目多样性时空格局重建。“云岭英才计划”“云岭高端外国专家”专项（项目批准号: YNQR-GDWG-2017-002; 云外专[2018]2 号; 项目负责人: Pamela Sue Soltis, 伊廷双）。“Yunling High-End Foreign Experts” Program of “Yunling Super-Talent Initiative”
- 2017.07.01–2018.07.31, ¥2000 万。生物多样性的演化历史与格局。中国科学院 B 类先导科技专项培育项目（项目负责人: 李德铎）。生物多样性的演化历史与格局（课题号: XDB31000000; 课题负责人: 李德铎）。西南山地植物多样性分布格局和成因（子课题号: XDPB020103; 子课题负责人: 经费 70 万）。The Strategic Priority Research Program of the Chinese Academy of Sciences (No. XDPB0201).
- 2018.01.01–2022.12.31, ¥285.2 万。蔷薇目全球多样化时空格局重建。国家自然科学基金重点国际（地区）合作研究项目（项目号: 31720103903; 项目共同负责人, 外方负责人: Douglas E. Soltis）。The National Natural Science Foundation of China, key international (regional) cooperative research project (No.31720103903). Collaborators: Douglas E. Soltis, Pamela S. Soltis, Robert P. Guralnick, Ryan A. Folk from University of Florida. The global diversification of Rosales in space and time.
- 2018.01.01–2022.12.31, ¥2580 万。依托种质资源库的植物 DNA 条形码 2.0 与系统发育基因组学研究。中国科学院重大科技基础设施开放研究项目（项目号: 2017-LSF-GBOWS-02; 项目负责人: 李德铎、杨俊波）。维管植物系统框架重建与 APG 系统修订（课题 4 负责人; 经费 335 万）。The Large-scale Scientific Facilities of the Chinese Academy of Sciences (No. 2017-LSF-GBOWS-02). Collaborator: Pamela S. Soltis and Douglas Soltis (University of Florida), Mark Chase (Royal Botanic Garden, Kew), Hong Ma (Pennsylvania State University). Reconstruction of phylogenetic framework of vascular plants and revision of the APG system.
- 2017.05.01–2018.06.30, ¥30 万。三个重要植物类群 DNA 条形码鉴定系统构建。环境保护部-生物多样性保护专项（项目负责人）。This research is

supported by Biodiversity Conservation Program of Ministry of Environmental Protection of the People's Republic of China.

2016.01.01–2020.12.31, ¥100 万。中科院中-非联合研究中心项目：《肯尼亚植物志》编研。《肯尼亚植物志》中蔷薇目（Rosales）等类群植物的分类研究和志书编写（子课题负责人：张书东；**课题参加人**）。

2016.05.01–2017.05.31, ¥40 万。三个重要药用类群 DNA 条形码鉴定系统构建。环境保护部-生物多样性保护专项（**项目负责人**）。

2016.08.01–2016.12.31, ¥28.6 万，云南药山国家级自然保护区药用植物资源专项调查与开发利用（课题主持人：张书东）。

2014.01.01–2018.12.31, ¥1862 万。西南山地典型生态系统植物多样性对气候变化的响应。国家重大科学研究计划项目（项目号：2014CB954100；项目负责人：李德铤；第 9 参加人）。课题：植物多样性格局与气候要素的耦合关系（第一课题负责人：陈之端；**子课题负责人**；获经费 120 万）。

The National Key Basic Research Programme of China (2014CB954100)

2013.01.01–2015.12.31, ¥100 万。非洲资源植物种子库建设。中国科学院中-非联合研究中心资助项目(项目号：SAJC201302；**项目负责人**)。

2013.01.01–2017.12.31, ¥1098 万。《中国植物志》的数字化和 DNA 条形码。科技基础性工作专项重点项目（项目号：2013FY112600；项目负责人：张宪春，王红）。子课题：20 个 3E 维管植物属 iFlora 构建（**子课题负责人**；获经费 120 万）。 the National Science and Technology on Basic Research Programme (2013FY112600)

2013.01.01–2015.12.31, ¥100 万。iFlora 交叉与合作团队。中国科学院科技创新“交叉与合作团队”（项目号：31129001；**项目负责人**）。

2013.01.01–2016.12.31, ¥90 万。大麻科分子系统发育和多样化时空格局重建。国家自然科学基金面上项目（项目号：31270274；**项目负责人**）。 the National Natural Science Foundation (Project No. 31270274).

2011.01.01–2014.12.31, ¥6 万。云南省中青年学术技术带头人后备人才（项目号：2011CI042；**项目负责人**）。

- 2012.01.01–2015.12.31, ¥120 万。东亚-北美间断植物类群的分子系统学和生物地理学。国家自然科学基金海外及港澳学者合作研究基金（项目号：31129001；**项目联合负责人**）。
- 2011.01.01–2013.12.31, ¥35 万。野生大豆亲缘地理学与保护生物学研究。国家自然科学基金面上项目（项目号：31070193；**项目负责人**）。
- 2009.01.01–2014.12.31, ¥20 万。东亚-北美间断植物类群的分子系统学和生物地理学。国家基金海外及港澳合作研究基金（项目号：30828001，**项目联合负责人**）。
- 2009.01.01–2012.12.31, ¥15 万。西部药用植物资源可持续利用研究。中国科学院知识创新工程领域前沿重点项目。（**项目负责人**：赵勤实、李唯奇）。
子课题：灯盏细辛（灯盏花）分子鉴定与种质资源评价（**课题负责人**）。
- 2009.01.01–2012.12.31, ¥45 万。生命之树共生固氮植物支系重要类群的起源、分化和环境制约。国家自然科学基金重点项目（项目号：40830209；**项目负责人**：李德铎；**项目参加人**）。
- 2009.01.01–2010.12.31, ¥2.5 万。《中国植物志》（英文版）编写项目（项目号：1ZO9103112B1；**项目负责人**）。
- 2009.01.01–2009.12.31, ¥30 万。云南省创新团队（**项目负责人**：李德铎；**项目参加人**）。
- 2009.01.01–2009.12.31, ¥5 万。中科院生物多样性与生物地理学重点实验室资助课题（**课题负责人**）。
- 2008.01.01–2010.12.31, ¥30 万。漆树科北温带间断分布关键属的分子系统学和生物地理学研究。国家自然科学基金面上项目（项目号：30770138；**项目负责人**）。
- 2007.11.28–2011.07.09, ¥13 万。西南地区重要野生植物种质。国家专项任务（大科学工程、空间专项等）项目（项目号：1Z2005DKA21006；**子课题负责人**）。
- 2007.01.01–2011.12.31, ¥20 万。中国-喜马拉雅地区生物多样性演变和保护研究。国家 973 项目（**项目负责人**：张亚平；项目号：2007BC411600）。课

题：重要生物类群的演变与地理格局（课题号：2007CB41160；课题负责人：李德铎；**课题参加人**）。

2006.11.15–2009.11.30，¥30万，中国栽培作物起源与进化。中国科学院昆明植物所海外引进人才启动经费（项目号：51O606571421；**项目负责人**）。

2006，¥2万。王宽诚教育基因回国人员专项经费（**项目负责人**）。

2006，\$0.5万，美国自然科学基金（植物分子和器官发育研究，博士后培养基金）（**项目负责人**）。

2002–2005，¥23万，天南星科半夏属的系统学和生物地理学研究。中国自然科学基金面上项目(项目号：30170067，**项目主要参加人**)。

2002–2005 ¥5万，天南星科半夏属的系统学和生物地理学研究。云南省自然科学基金面上项目 (项目号：2001c0056M；**项目主要参加人**)。

教学：

2021.12.24，12.2，植物系统学，12课时，博士生。

2019.1.4,1.16,21，植物系统学，3课时，博士生。

2016.12.12，12.28，12.30，植物系统学，3课时，博士生。

2015.1.13，植物系统学，2课时，博士生。

2015.01.08 分子生物地理学，2课时，博士生。

2014.12.30，植物系统学，2课时，博士生。

2014.01–2014.01 分子生物地理学，2课时，博士生。

2013.06.13 植物系统学，2课时，博士生。

国际合作与交流：

2018.7.14-2018.8.12 访问美国佛罗里达大学、美国密苏里植物园、美国哈佛大学。

2017.9.28-2017.10.15 马达加斯加植物多样性野外考察和标本采集。

2016.11.4–2016.12.1 哥斯达黎加植物多样性野外考察和标本采集。

2016.10.27–2016.11.3 访问美国密苏里植物园。

2015.8.17–2015.9.7 访问英国爱丁堡植物园和英国伦敦皇家植物园邱园。
2015.5.10–2015.5.30 访问南非约翰内斯堡大学。
2014.11.27–12.24 访问澳大利亚布里斯班植物园，野外考察和样品采集，学术交流。
2014.8.24–2014.9.13 访问访问英国爱丁堡植物园和英国伦敦皇家植物园邱园。
2014.6.1–2014.6.31 访问美国加州科学院、加利福尼亚大学和密苏里植物园。并在密苏里植物做学术报告。
2013.3.30–2013.4.13 访问老挝，野外考察和样品采集，学术交流。
2012.10.25–2012.11.25 访问柬埔寨，野外考察和样品采集，学术交流。
2012.7.10–8.10 访问日本东京大学。
2012.1.6–2012.1.17 访问肯尼亚，野外考察和样品采集，学术交流。
2011. 11.14–11.17 访问台湾中央保育研究中心和成功大学。
2009.1.30–2009.4.17 美国菲尔德博物馆访问学者。

课题组建设:

通过中共中央组织部第十四批国家“千人计划”和中共云南省委组织部 2017 年度“云岭英才计划”云岭高端外国专家引进美国佛罗里达大学杰出教授、美国科学院院士和美国科学与艺术学院院士 Pamela Sue Soltis。并建立合作研究团队。
中共云南省委组织部 2018 年度“云岭英才计划”云岭高端外国专家引进美国佛罗里达大学杰出教授、美国科学院院士和美国科学与艺术学院院士 Douglas Soltis。并建立合作研究团队。

固定工作人员:

刘晖：副研究员

2022年，获得云南省“兴滇英才支持计划”青年人才

2020年，获得中国科学院“西部之光”西部青年学者人才培养计划（B类）

2019年，获得中国科学院昆明植物研究所“优秀人才”引进

张荣：

2020，获得云南省2020年博士后科研基金优秀成果奖励（三等奖）

2022, 获得中国科学院昆明植物研究所引进“优秀人才”

2022, 获得云南省“兴滇英才支持计划”青年人才

陈斯云: 工程师

在站博士后:

Gregory Stull: 2019.9 进站

Oyebanji Oyetola: 2021.9 进站

出站博后:

谢磊: 2012.9–2014.7: 现任北京林业大学副教授, 硕士生导师

张荣: 2019.9-2022.1: 中国科学院昆明植物所副研究员

在读博士生 (9 人):

刘水银 (2017.9)、田琴 (2018.9)、陈斯云 (2019.9)、杨晨璇 (2019.9)、

Rahaingoson Fabien Robert (2019.9); 李云霞 (2020.9); 夏侯佐英

(2021.9); 顾威 (2021.9); 付小刚 (2022.9)

在读硕士生 (4 人)

鲁晴 (2020.9)、严慧、王丁洁 (2021.9), 安凯伦 (2022.9), 赵立波

(2023.9)

毕业博士生 (10 人):

杨莹莹: 2021 届; 现为北京大学博士后

Oyebanji Oyetola: 2021 届; 现为中国科学院昆明植物研究所博士后; 1. Win

Excellent International Student of UCAS, 2020

赵磊（与李德铎老师联合培养）： 2020 届；现为中国科学院昆明植物研究所研究助理

张荣： 2019 届；现为中国科学院昆明植物研究所副研究员

金建军： 2018 届；获 2020 云南省优秀毕业生；现为美国哥伦比亚大学博士后

曲小健： 2017 届；现任山东师范大学副教授 硕士生导师

王银环（与王红老师联合培养）： 2017 届；现任重庆师范大学讲师

Hafiz Muhammad Warris（与王红、李德铎老师联合培养）：2017 届；现为中国科学院昆明植物研究所博士后

贺水莲（与李德铎老师联合培养）： 2013 届；现任云南农业大学副教授

杨美青（与李德铎老师联合培养）： 2013 届；现任内蒙古科技大学包头医学院副教授 硕士生导师

孟静（与李德铎老师联合培养）： 2010 届；现任云南农业大学副教授

毕业硕士生（6 人）：

王子洵（陕西师范大学联培）， 2022 届

付小刚（西北大学联培） 2021 届；中国科学院昆明植物研究所项目聘用

李文慧 云南大学（联合培养）2021 届 云南衡水实验中学

朱广福 2021 届；中国科学院昆明植物研究所

甘露 2020 届

金冬敏：2019 届；美国纽约大学博士生

吴佳瑾：2018 届

刘萍： 2017 届；现任中国科学院西双版纳热带植物园工程师

金桂花：2014 届；现为中国科学院昆明植物研究所博士生

李翔：2011 届；德国马普研究所博士毕业

Staff of the Group:

Hui Liu: associate professor

Rong Zhang: associate professor

Siyun Chen: engineer

Training postdoctors:

Gregory Stull: Start from 2019.9–

Oyebanji Oyetola: start from 2021.9–

Trained postdoctor:

Lei Xie: graduated at 2014; now associate professor of Beijing Forest University

Rong Zhang: Start from 2019.9–2022.1; now associate professor of Kunming
Institute of Botany, CAS

Training Ph.D. students:

China: Shuiyin Liu, Qin Tian, Siyun Chen, Chenxuan Yang, Yunxia Li, Wei Gu,

Rahaingoson Fabien Robert

Training master students:

Zixun Wang; Qing Lu; Dingjie Wang

Graduated Ph.D. students:

Yingying Yang: graduated at 2021.12; postdoctor at Beijing University

Oyebanji Oyetola: graduated at 2021.9; postdoctor of Kunming Institute of Botany,
CAS

Lei Zhao (co-director with prof. Dezu Li): graduated at 2020; research assistant in
Kunming Institute of Botany, CAS

Rong Zhang: graduated at 2020; associate professor of Kunming Institute of Botany,
CAS

Jianjun Jin: graduated at 2018; postdoctor at Columbia University

Xiaojian Qu: graduated at 2017; associate professor of Shandong Normal University

Yinhuan Wang (co-director with prof. Hong Wang; prof. Dezhu Li): graduated at
2017; lecturer in Chongqing Normal University

Hafiz Muhammad Warris (co-director with prof. Hong Wang; prof. Dezhu Li):
graduated at 2017; postdoctor in Kunming Institute of Botany, CAS.

Meiqing Yang (co-director with prof. Dezhu Li): graduated at 2013; associate professor of Baotou Medical School of Inner Mongolia University of Science and Technology

Shuilian He (co-director with prof. Dezhu Li): graduated at 2013; associate professor of Yunnan Agriculture University.

Jing Meng (co-director with prof. Dezhu Li): graduated at 2010; associate professor of Yunnan Agriculture University.

Graduated master students:

Xiaogang Fu: graduated at 2021

Wenhui Li: graduated at 2021

Guangfu Zhu: graduated at 2020

Lu Gan: graduated at 2020.

Dongmin Jin: graduated at 2019; Now Ph.D. student in New York University.

Jiajin Wu: graduated at 2018.

Ping Liu: graduated at 2017;

Guihua Jin: graduated at 2014; obtained Ph.D. degree in Kunming Institute of Botany, CAS, now postdoctor in Kunming Institute of Botany, CAS

Xiang Li: graduated at 2011; obtained Ph.D. degree in Max Planck Institute of Chemistry and Ecology, Germany

Collaborators:

Anne Bruneau, Institut de recherche en biologie végétale & Département de Sciences biologiques, Université de Montréal, Montréal, QC H1X 2B2, Canada.

Claude W. dePamphilis, Department of Biology, The Pennsylvania State University, University Park, PA 16801, USA.

Domingos Cardoso, Diversity, Biogeography and Systematics Laboratory, Instituto de Biologia, Universidade Federal da Bahia, Rua Barão de Jeremoabo, s.n., Ondina, 40170-115 Salvador, Bahia, Brazil.

Douglas E. Soltis, Biodiversity Institute, University of Florida, Gainesville, FL 32611, USA.

Hong Ma, Department of Biology, Huck Institutes of the Life Sciences, Pennsylvania State University, University Park, PA 16802, USA.

Jian Wang, Queensland Herbarium, Department of Environment and Science, Brisbane Botanic Gardens, Mt Coot-tha Road, Brisbane 4066, Australia.

Jun Wen, Department of Botany, National Museum of Natural History, MRC 166, Smithsonian Institution, Washington, DC 20013-7012, USA.

Luciano Paganucci de Queiroz, Departamento de Ciências Biológicas, Universidade Estadual de Feira de Santana, Av. Transnordestina, s/n, Novo Horizonte, 44036-900 Feira de Santana, Bahia, Brazil.

Mark W. Chase, Department of Environment and Agriculture, Curtin University, Bentley, Western Australia 6102, Australia.

Matthew A. Gitzendanner, Florida Museum of Natural History, University of Florida, Gainesville, FL 32611, USA.

Michael J. Moore, Department of Biology, Oberlin College, Oberlin, OH 44074, USA.

Michelle van der Bank, Department of Botany & Plant Biotechnology, University of Johannesburg, PO Box 524, Auckland Park, Johannesburg, Gauteng 2006, South Africa.

Pamela S. Soltis, Biodiversity Institute, University of Florida, Gainesville, FL 32611, USA.

Peter W. Fritsch, Botanical Research Institute of Texas, 1700 University Drive, Fort Worth, TX 76017, USA.

Richard G. Olmstead, Department of Biology and Burke Museum, University of Washington, Seattle, WA 98195-5325, USA.

Robin van Velzen, Biosystematics Group, Wageningen University, Wageningen, The Netherlands.

Peter M. Hollingsworth, Royal Botanic Garden Edinburgh, Edinburgh EH3 5LR, Scotland, UK.

Stephen A. Smith, Department of Ecology and Evolutionary Biology, University of Michigan, Ann Arbor, MI, USA.

Stefanie Ickert-Bond, UA Museum of the North and Department of Biology and
Wildlife, University of Alaska Fairbanks, Fairbanks, AK 99775-6960, USA.