

雷云霆 简历

联系方式

姓名: 雷云霆
地址: 中国科学院昆明植物研究所
云南省昆明市盘龙区蓝黑路 132 号
邮编: 650201
Email: leiyunting@163.com



研究方向

菌异养植物与真菌的相互作用

工作经历

2021.02-至今	助理研究员	中国科学院昆明植物研究所
2018.01-2020.12	博士后	中国科学院昆明植物研究所 合作导师: 吴建强 研究员
2012.07-2013.08	研究助理	中国科学院西北高原生物研究所

学习经历

2013.09-2017.12	植物学, 博士	四川大学 导师: 林宏辉 教授
2009.09-2012.06	植物学, 硕士	中国科学院西北高原生物研究所 导师: 窦全文 研究员
2005.09-2009.07	生物工程, 学士	黑龙江大学

发表文章 (* 通讯作者; # 共同第一作者)

第一作者或共同第一作者:

- 1、Yuxing Xu[#], **Yunting Lei[#]**, Zhongxiang Su, Man Zhao, Jinxiong Zhang, Guojing Shen, Lei Wang, Jing Li, Jingfeng Qi, Jianqiang Wu*. (2021) A chromosome-scale *Gastrodia elata* genome and large-scale comparative genomic analysis indicate convergent evolution by gene loss in mycoheterotrophic and parasitic plants. **Plant Journal**.
<https://www.ncbi.nlm.nih.gov/pubmed/34647389>
- 2、**Yunting Lei**, Yuxing Xu, Jinxiong Zhang, Juan Song, Jianqiang Wu*. (2021) Herbivory-induced systemic signals are likely evolutionarily conserved in euphyllophytes. **Journal of Experimental Botany**. <https://www.ncbi.nlm.nih.gov/pubmed/34293107>
- 3、**Yunting Lei[#]**, Yuxing Xu[#], Christian Hettenhausen, Chengkai Lu, Guojing Shen, Cuiping Zhang, Jing Li, Juan Song, Honghui Lin*, Jianqiang Wu*. Comparative analysis of alfalfa (*Medicago sativa* L.) leaf transcriptomes reveals genotype-specific salt tolerance mechanisms. **BMC Plant Biology**, 2018, 18(1):35.
<https://www.ncbi.nlm.nih.gov/pubmed/29448940>
- 4、**Yunting Lei**, Qing Liu, Christian Hettenhausen, Guoyan Cao, Qing Tan, Weiye Zhao, Honghui Lin*, Jianqiang Wu*. Salt-tolerant and -sensitive alfalfa (*Medicago sativa*) cultivars have large variations in defense responses to the lepidopteran insect *Spodoptera litura* under normal and salt stress condition. **PLOS ONE**, 2017, 12(7): e0181589.
<http://www.ncbi.nlm.nih.gov/pubmed/28719628>
- 5、**Yunting Lei**, Yanyan Zhao, Feng Yu, Yuan Li, Quanwen Dou*. Development and characterization of 53 polymorphic genomic-SSR markers in Siberian wildrye (*Elymus sibiricus* L.). **Conservation Genetics Resources**, 2014, 6(4):861-864.
<https://link.springer.com/article/10.1007%2Fs12686-014-0225-5>
- 6、雷云霆, 赵闫闫, 喻凤, 李媛, 窦全文*. 利用基因组 SSR 分子标记对老芒麦品种(种质)鉴别和品种纯度鉴定. **草地学报**, 2015, 23, 1: 151-155.
https://manu40.magtech.com.cn/Jweb_cdx/CN/10.11733/j.issn.1007-0435.2015.01.024
- 7、雷云霆, 窦全文*. 青藏高原老芒麦和垂穗披碱草 SSR 分子标记鉴别. **草业科学**, 2012, 29(6): 937-942. <http://cykx.lzu.edu.cn/article/id/c225ff3f-dec4-4b48-8f21-d3ea5e2bff01>

合作文章:

- 1、 Yuxing Xu, Jingxiong Zhang, Canrong Ma, **Yunting Lei**, Guojing Shen, Jianjun Jin, Deren A.R. Eaton, Jianqiang Wu*. (2022). Comparative genomics of orobanchaceous species with different parasitic lifestyles reveals the origin and stepwise evolution of plant parasitism. **Molecular Plant**, 15(8), 1384-1399. <https://www.ncbi.nlm.nih.gov/pubmed/35854658>
- 2、 James S. Santangelo, Rob W. Ness, Beata Cohan, Connor R. Fitzpatrick, Simon G. Innes, Sophie Koch, Lindsay S. Miles, Samreen Munim,, **Yunting Lei**,, Marc T. J. Johnson*. (2022). Global urban environmental change drives adaptation in white clover. **Science**, 375(6586), 1275-1281. <https://pubmed.ncbi.nlm.nih.gov/35298255>
- 3、 Cuiping Zhang, **Yunting Lei**, Chengkai Lu, Lei Wang*, Jianqiang Wu*, MYC2, MYC3, and MYC4 function additively in wounding-induced jasmonic acid biosynthesis and catabolism, **Journal of Integrative Plant Biology**, 2020, 62(8): 1159-1175. <https://www.ncbi.nlm.nih.gov/pubmed/31876387>
- 4、 Chengkai Lu, Jinfeng Qi, Christian Hettenhausen, **Yunting Lei**, Jingxiong Zhang, Mou Zhang, Cuiping Zhang, Juan Song, Jing Li, Guoyan Cao, Saif ul Malook, Jianqiang Wu*. Elevated CO₂ differentially affects tobacco and rice defense against lepidopteran larvae via the jasmonic acid signaling pathway. **Journal of Integrative Plant Biology**, 2018, 60(5):412-431. <http://www.ncbi.nlm.nih.gov/pubmed/29319235>
- 5、 Christian Hettenhausena[#], Juan Li[#], Huifu Zhuang, Huanhuan Sun, Yuxing Xu, Jinfeng Qi, Jingxiong Zhang, **Yunting Lei**, Yan Qin, Guiling Sun, Lei Wang, Ian T. Baldwin, and Jianqiang Wu*. Stem parasitic plant *Cuscuta australis* (dodder) transfers herbivory-induced signals among plants. **PNAS**, 2017, 114(32): E6703-E6709. <https://www.ncbi.nlm.nih.gov/pubmed/28739895>
- 6、 Feng Yu, **Yunting Lei**, Yuan Li, Quanwen Dou*, Haiqing Wang, Zhiguo Chen. Cloning and characterization of chromosomal markers in alfalfa (*Medicago sativa* L.). **Theoretical and Applied Genetics**, 2013, 126(7):1885-1896. <http://www.ncbi.nlm.nih.gov/pubmed/23636612>
- 7、 Quanwen Dou*, **Yunting Lei**, Xiaomei Li, Ivan W. Mott, Richard R.C.Wang. Characterization of alien chromosomes in backcross derivatives of *Triticum aestivum*×*Elymus rectisetus* hybrids by using molecular markers and sequential multicolor FISH/GISH. **Genome**, 2012, 55(5): 337-347. <http://www.ncbi.nlm.nih.gov/pubmed/22494709>
- 8、 Deyong Zhao*, Lei Wang, **Yunting Lei**. Correlation among SDS sedimentation value, swelling index of glutenin and solvent retention capacity of Spring Wheat. **Notulae Scientia Biologicae**, 2012, 4(2):132-135. <https://doi.org/10.15835/nsb427596>

9、 窦全文*, 雷云霆, 王海庆. 黄花苜蓿和紫花苜蓿分子核型比较. *草地学报*, 2012, 20(4):

718-723. https://manu40.magtech.com.cn/Jweb_cdx/CN/10.11733/j.issn.1007-

[0435.2012.04.019](https://manu40.magtech.com.cn/Jweb_cdx/CN/10.11733/j.issn.1007-0435.2012.04.019)

10、 窦全文*, 雷云霆, 王海庆. 苜蓿种质间染色体多态性的荧光原位杂交检测. *植物遗传资*

源学报, 2012, 13(5): 782-788. <https://www.zwyczy.cn/zwyczyxb/article/abstract/20111114001>

项目与基金

1. 2019.04-2020.12, 云南省 2018 年博士后定向培养资助 (Y934284), “狗尾草 CRISPR/Cas9 系统的建立及突变体库的制备”, 16.00 万元, 主持, 已结题;
2. 2019.04-2020.12, 云南省博士后研究项目 (Y934385), “狗尾草 CRISPR/Cas9 基因编辑系统的建立”, 2.00 万元, 主持, 已结题;
3. 2019.07-2022.06, 中国科学院科技扶贫项目 (KFJ-FP-201905), “云南昭通科技扶贫与特色生物产业示范 (项目): 以天麻‘两菌’为代表特色食用菌产业示范 (课题)”, 30 万元, 参与, 课题主要执行人;
4. 2020.01-2022.12, 中国科学院科技扶贫项目 (202003AD150005), “昭通天麻‘两菌’技术体系与马铃薯、花椒产业提质增效 (项目): 蜜环菌菌种退化机制与复壮研究 (课题)”, 70 万元, 参与, 课题主要执行人;
5. 2020.09-2023.08, 云南省基础研究专项 (202001AS070021), “蜜环菌与天麻互作分子机理的研究”, 50 万元, 参与, 项目主要执行人;
6. 2022.01-2023.12, 西藏自治区科技计划项目-中央引导地方项目-自由探索类基础研究 (XZ202201YD0006C), “分子标记辅助西藏天麻育种的研究”, 50 万元, 参与, 合作单位主要负责人。