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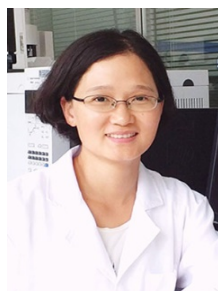
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药物化学专业



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简历:

2017.1—今, 中科院昆明植物研究所副研究员

2010.9—2016.12, 中科院昆明植物研究所助理研究员

2005.9—2010.7, 兰州大学, 细胞生物学, 博士

2001.9—2005.7, 兰州大学, 生命科学学院, 学士

研究领域:

植物天然产物生物功能、生物合成与合成生物学研究：主要运用生物化学、分子生物学等手段，开展结构新颖天然产物的生物功能与生物合成研究，解析其生源途径并发现新颖酶催化机制，在此基础上开展重要活性分子的合成生物学研究。

获奖及荣誉：

1. 2016年入选中国科学院青年创新促进会会员
2. 2018年入选中国科学院西部之光——西部青年学者A类
3. 2018年入选云南省“万人计划”青年拔尖人才

代表论著：

1. Yan Liu[#], Shuxi Jing[#], Shihong Luo, Shenghong Li*. Non-volatile natural products in plant glandular trichomes: chemistry, biological activities and biosynthesis. *Natural Product Reports*, **2019**, 36: 626-665.
2. Yan Liu[#], Shihong Luo, Axel Schmidt, Guodong Wang, Guiling Sun, Marcus Grant, Ce Kuang, Minjie Yang, Shuxi Jing, Chunhuan Li, Bernd Schneider, Jonathan Gershenzon, Shenghong Li*. A geranylarnesyl diphosphate synthase provides the precursor for sesterterpenoid (C₂₅) formation in the glandular trichomes of the mint species *Leucosceptrum canum*. *Plant Cell*, **2016**, 28: 804-82
2. (Cover Article)
3. Ting Tang[#], Chunhuan Li[#], Desen Li, Shuxi Jing, Juan Hua, Shihong Luo, Yan Liu*, Shenghong Li*. Peltate glandular trichomes of *Colquhoulia vestita* harbor diterpenoid acids that contribute to plant adaptation to UV radiation and cold stresses. *Phytochemistry*, **2020**, 172: 112285.
4. Fei Luo[#], Yi Ling, Desen Li, Ting Tang, Yanchun Liu, Yan Liu*, Shenghong Li*. Characterization of a sesquiterpene cyclase from the glandular trichomes of *Leucosceptrum canum* for sole production of cedrol in *Escherichia coli* and *Nicotiana benthamiana*. *Phytochemistry*, **2019**, 162: 121-128.
5. Yi Ling[#], Linlin Teng, Juan Hua, Desen Li, Shihong Luo, Yanchun Liu, Yan Liu*, Shenghong Li*. Leucosceptroid B from glandular trichomes of *Leucosceptrum canum* reduces fat accumulation in *Caenorhabditis elegans* through suppressing unsaturated fatty acid biosynthesis. *Chinese Journal of Natural Medicines*, **2019**, 17: 0892-0899.
6. Chaojiang Xiao[#], Yanchun Liu, Shihong Luo, Juan Hua, Yan Liu*, Shenghong Li*. Localization of Two bioactive labdane diterpenoids in the peltate glandular trichomes of *Leonurus japonicas* by laser microdissection coupled with UPLC-MS/MS. *Phytochemical Analysis*, **2017**, 28: 404-409.

7. Yanyun Tan[#], Desen Li, Juan Hua, Shihong Luo, **Yan Liu***, Shenghong Li*, Localization of a defensive volatile 4-hydroxy-4-methylpentan-2-one in the capitate glandular trichomes of *Oenothera glazioviana*. *Plant Diversity*, **2017**, 39: 154-159.
8. Caiguo Zhang[#], **Yan Liu***. Targeting cancer with sesterterpenoids: the new potential antitumor drugs. *Journal of Natural Medicines*, **2015**, 69: 255-266.
9. Chunhuan Li[#], **Yan Liu[#]**, Juan Hua, Shihong Luo, Shenghong Li*. Peltate glandular trichomes of *Colquhounia seguinii* harbor new defensive clerodane diterpenoids. *Journal of Integrative Plant Biology*, **2014**, 56: 928-940. (Co-first author)
10. Kai Guo[#], **Yan Liu**, Shihong Luo, Yanchun Liu, Desen Li, Wenyuan Li, Shenghong Li*. Detoxification of plant aromatic abietanoids via cleavage of the benzene ring into 11,12-*seco*-diterpene polyenes by a specialist insect of *Leucosceptum canum*. *Organic Letters*, **2020**, 22: 126-129.
11. Wenyuan Li[#], **Yan Liu**, Yutian Lin, Yanchun Liu, Kai Guo, Xiaonian Li, Shihong Luo*, Shenghong Li*. Antibacterial harziane diterpenoids from a fungal symbiont *Trichoderma atroviride* isolated from *Colquhounia coccinea* var. *mollis*. *Phytochemistry*, **2020**, 170: 112198.
12. Kai Guo[#], Yanchun Liu, **Yan Liu**, Shihong Luo, Wenyuan Li, Xiaonian Li, Shenghong Li*, Diversified abietane family diterpenoids from the leaves of *Leucosceptum canum* and their cytotoxic activity. *Phytochemistry*, **2019**, 157: 43-52.
13. Juan Hua[#], **Yan Liu**, Chaojiang Xiao, Shuxi Jing, Shihong Luo*, Shenghong Li*. Chemical profile and defensive function of the latex of *Euphorbia peplus*. *Phytochemistry*, **2017**, 136: 56-64.
14. Ying Wang[#], Shihong Luo, Juan Hua, **Yan Liu**, Shuxi Jing, Xiaonian Li, Shenghong Li*. Capitate glandular trichomes of *Paragutzlaffia henryi* harbor new phytotoxic labdane diterpenoids. *Journal of Agricultural and Food Chemistry*, **2015**, 63: 10004-10012.
15. Shuxi Jing[#], Shihong Luo, Chunhuan Li, Juan Hua, Yanli Wang, Xuemei Niu, Xiaonian Li, **Yan Liu**, Chunshuai Huang, Ying Wang, Shenghong Li*. Biologically active dichapetalins from *Dichapetalum gelonioides*. *Journal of Natural Products*, **2014**, 77: 882-893.
16. Shihong Luo[#], Cedric L. Hugelshofer, Juan Hua, Shuxi Jing, Chunhuan Li, **Yan Liu**, Xiaonian Li, Xu Zhao, Thomas Magauer, Shenghong Li*. Unraveling the metabolic pathway in *Leucosceptum canum* by isolation of new defensive leucosceptroid degradation products and biomimetic model synthesis. *Organic Letters*, **2014**, 16: 6416-6419.

17. Chunhuan Li[#], Shuxi Jing, Shihong Luo, Wei Shi, Juan Hua, **Yan Liu**, Xiaonian Li, Bernd Schneider, Jonathan Gershenzon, Shenghong Li*. Peltate glandular trichomes of *Colquhounia coccinea* var. *mollis* harbor a new class of defensive sesterterpenoids, *Organic Letters*, **2013**, 15: 1694-1697.
18. Shihong Luo[#], Juan Hua, Xuemei Niu, **Yan Liu**, Chunhuan Li, Yanying Zhou, Shuxi Jing, Xu Zhao, Shenghong Li*. Defense sesterterpenoid lactones from *Leucoscepttrum canum*. *Phytochemistry*, **2013**, 86: 29-35.
19. Shihong Luo[#], Juan Hua, Chunhuan Li, **Yan Liu**, Xiaonian Li, Xu Zhao, Shenghong Li*. Unusual antifeedant spiro-sesterterpenoid from the flowers of *Leucoscepttrum canum*. *Tetrahedron Letters*, **2013**, 54: 235-237.
20. Shihong Luo[#], **Yan Liu**, Juan Hua, Xuemei Niu, Shuxi Jing, Xu Zhao, Bernd Schneider, Jonathan Gershenzon, Shenghong Li*. Unique proline-benzoquinone pigment from the colored nectar of “Bird’s Coca Cola Tree” functions in bird attractions. *Organic Letters*, **2012**, 14: 4146-4149.
21. Shihong Luo[#], Juan Hua, Chunhuan Li, Shuxi Jing, **Yan Liu**, Xiaonian Li, Xu Zhao, Shenghong Li*. New antifeedant c₂₀ terpenoids from *Leucoscepttrum canum*. *Organic Letters*, **2012**, 14: 5768-5771.
22. 黎胜红, 刘燕, 罗菲, 刘艳春, 雪松醇合酶Lc-CedS编码基因及其应用, 中国, 专利公开号: 201910108139.6

承担科研项目情况:

- 1.NSFC-云南联合基金重点项目 (No: U1902214) , 2020.1-2023.12, 267.6万元, 主持
- 2.国家自然科学基金面上项目 (No. 31770340) , 2018.1-2021.12, 71万元, 主持
- 3.国家自然科学基金面上项目 (No. 31470395) , 2015.1-2018.12, 80万元, 主持 (已结题)
- 4.国家自然科学基金青年基金项目 (No. 31100222) , 2012.1-2014.12, 22万元, 主持 (已结题)
- 5.中国科学院青年创新促进会专项基金, 2016.01-2019.12, 80万元, 主持
- 6.中国科学院西部之光——西部青年学者A类专项基金, 2019.01-2021.12, 50万元, 主持
- 7.云南省应用基础研究计划项目重点项目, 2018.06-2021.05, 50万元, 主持
- 8.云南省“万人计划”青年拔尖人才专项基金, 2019.01-2023.12, 50万元, 主持



