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1. 人简介

理学博士, 博士后, 中国植物保护学会鼠害防治专业委员会委员。先后主持国家重点研发计划项目子课题2项, 已发表SCI论文30多篇, 其中以第一作者或通讯作者在European Journal of Medicinal Chemistry、Journal of Agricultural and Food Chemistry、Pest Management Science等国际权威SCI杂志上发表10多篇。担任Journal of Agricultural and Food Chemistry、European Journal of Medicinal Chemistry、ACS Sustainable Chemistry & Engineering等SCI杂志审稿人。

2. 研究方向和研究内容:

1、绿色农药的化学与生物学研究

以我国农业病虫害为作用靶标, 微生物 植物代谢产物或商业化学农药为先导, 创制具有自主知识产权的新型绿色农药; 开展微生物 植物代谢产物的分离与纯化, 发现新型先导化合物; 开展化学农药的合成方法研究。

2、退化草地的生物防治综合配套技术研究

针对草地退化严重、草畜失衡、生产力低效问题, 以现有退化草地的生物防治技术为基础, 开展鼠虫害监测技术研究; 针对不同退化程度草地, 开展以生态防治为重点的鼠虫害综合防治技术的研究和示范。

3. 主持和参与项目:

- “十三五”国家重点研发计划项目子课题, 2016YFC0502004-2, 退化草地生物综合防治技术和示范, 2016.7-2020.12, 主持。
- “十三五”国家重点研发计划项目子课题, 2017YFD0200503-4, 青藏高原极端微生物菌株的筛选、鉴定及农用代谢产物研究, 2017.7-2020.12, 主持。
- 第二次青藏高原综合科学考察研究子专题, 2019QZKK040404, 生态工程技术评估与绩效管理, 2019.11-2024.10, 参与。
- 国家自然科学基金, 31272068, 几类含咪唑环仿生农药分子结构改造及作用机理研究, 2013.1-2016.12, 参与。

4. 部分代表性论文:

- Yongtian Zhao, Qi Wang, Xia Wu, Mingfang Jiang, **Hong Jin***, Ke Tao*, Taiping Hou, Unraveling the polypharmacology of a natural antifungal product, eugenol, against Rhizoctonia solani, *Pest Management Science*, 2021, doi: 10.1002/ps.6400.
- Yongtian Zhao, Na Yang, Yiming Deng, Ke Tao, **Hong Jin***, Taiping Hou, Mechanism of action of novel pyrazole carboxamide containing a diarylamine scaffold against Rhizoctonia solani, *Journal of Agricultural and Food Chemistry*, 2020, 68, (40), 11068-11076.
- Jian Yang, Yongtian Zhao, Jun Wan, Mingfang Jiang, **Hong Jin***, Ke Tao, Taiping Hou, Synthesis and biological evaluation of novel benodanil-heterocyclic carboxamide hybrids as a potential succinate dehydrogenase inhibitors, *Molecules*, 2020, 25, 4291.
- Aigui Zhang, Ying Yue, Jian Yang, Jiaying Shi, Ke Tao, **Hong Jin***, Taiping Hou, Design, synthesis, and antifungal activities of novel aromatic carboxamides containing a diphenylamine scaffold, *Journal of Agricultural and Food Chemistry*, 2019, 67, (17), 5008-5016.
- Yuanhang Ren, Jiaying Shi, Yangping Mu, Ke Tao, **Hong Jin***, Taiping Hou, AW1 neuronal cell cytotoxicity: The mode of action of insecticidal fatty acids, *Journal of Agricultural and Food Chemistry*, 2019, 67, 43, 12129-12136.
- Aigui Zhang, Ying Yue, Yihua Yang, Jian Yang, Ke Tao, **Hong Jin***, Taiping Hou*, Discovery of N-(4-fluoro-2-(phenylamino)phenyl)-pyrazole-4-carboxamide as potential succinate dehydrogenase inhibitors, *Pesticide Biochemistry and Physiology*, 2019, 158, 175-184.
- Aigui Zhang, Yihua Yang, Ying Yue, Ke Tao, Taiping Hou*, **Hong Jin***, N-[2-[(3-chlorophenyl)amino]-phenyl]-3-(difluoromethyl)-1-methyl-1H-pyrazole-4-carboxamide: Synthesis, crystal structure, molecular docking and biological activities, *Chemistry & Biodiversity*, 2019, 16, e1900118.
- Yuanhang Ren, Liqin He, **Hong Jin***, Ke Tao*, Taiping Hou, Cytotoxicity evaluation and apoptosis-inducing effects of furanone analogues in insect cell line SL2, *Food and Agricultural Immunology*, 2018, 29, 964-975.
- Aigui Zhang, Jingya Zhou, Ke Tao, Taiping Hou, **Hong Jin***, Design, synthesis and antifungal evaluation of novel pyrazole carboxamides with diarylamines scaffold as potent succinate dehydrogenase inhibitors, *Bioorganic & Medicinal Chemistry Letters*, 2018, 28, 3042-3045.
- Xiao-Xiao Zhang, **Hong Jin***, Yuan-Jie Deng, Xu-Heng Gao, Yong Li, Yong-Tian Zhao, Ke Tao, Tai-Ping Hou*, Synthesis and biological evaluation of novel pyrazole carboxamide with diarylamine-modified scaffold as potent antifungal agents, *Chinese Chemical Letters*, 2017, 28, 1731-1736.
- Hongyu Wang, Xuheng Gao, Xiaoxiao Zhang, **Hong Jin***, Ke Tao, Taiping Hou*, Design, synthesis and antifungal activity of novel fenfuram-diarylamine hybrids, *Bioorganic & Medicinal Chemistry Letters*, 2017, 27(1), 90-93.
- Hong Jin***, Jingya Zhou, Tao Pu, Aigui Zhang, Xuheng Gao, Ke Tao, Taiping Hou, Synthesis of novel fenfuram-diarylether hybrids as potent succinate dehydrogenase inhibitors, *Bioorganic Chemistry*, 2017, 73, 76-82.
- Fang Wen, **Hong Jin***, Ke Tao*, Taiping Hou, Design, synthesis and antifungal activity of novel furancarboxamide derivatives, *European Journal of Medicinal Chemistry*, 2016, 120(2), 244-251.
- Mingjing Chen, **Hong Jin***, Ke Tao, Taiping Hou, Synthesis and bioactivity evaluation of novel benzamide derivatives containing a diphenyl ether moiety, *Journal of Pesticide Science*, 2014, 39(4): 187-192.
- Hong Jin**, Haoyu Zhao, Feihu Zhao, Shihong Li, Wei Liu, Guoping Zhou, Ke Tao, Taiping Hou*, Efficient epoxidation of chalcones with urea-hydrogen peroxide under ultrasound irradiation, *Ultrasonics Sonochemistry*, 2009, 16(3), 304-307.
- Hong Jin**, Yucong Geng, Zhiyi Yu, Ke Tao, Taiping Hou*, Lead optimization and anti-plant pathogenic fungi activities of daphneolone analogues from *Stellera chamaejasme* L., *Pesticide Biochemistry and Physiology*, 2009, 93(3), 133-137.
- Hong Jin**, Liyu Xiang, Fang Wen, Ke Tao, Qian Liu, Taiping Hou*, Improved synthesis of chalconoid-like compounds under ultrasound irradiation, *Ultrasonics Sonochemistry*, 2008, 15(5): 681-683.

5. 部分授权专利:

- 侯太平, 高续恒, 金洪, 郭聪. 一种草原害鼠的持续性控制方法. 中国发明专利, ZL 201810134602.4.
- 侯太平, 查艳梅, 陶科, 金洪, 岳莹, 刘英. 泡盛曲霉菌株及其在农业害虫防治领域的用途. 中国发明专利, ZL 201710204653.5.
- 侯太平, 张肖肖, 金洪, 陶科. 含二芳胺基的吡唑甲酰胺类化合物及其在农药中的应用. 中国发明专利, ZL 201610019343.1.

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