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INSTITUTE OF ZOOLOGY, CHINESE ACADEMY OF SCIENCES

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首页 > 研究队伍

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	更多信息:	媒介昆虫与病毒基因组学研究组 个人页面 English

简历介绍:

崔峰，博士，研究员，硕士生导师，中国科学院动物研究所农业虫害鼠害综合治理研究国家重点实验室，媒介昆虫与病毒基因组学研究组组长。

主要研究方向是媒介昆虫-虫媒病毒-寄主互作的分子机理。共发表论文70余篇，其中SCI论文55篇，在eLife、GigaScience、New Phytologist、FASEB Journal、Philosophical Transactions of the Royal Society B、Molecular Plant-Microbe Interactions、Insect Biochemistry and Molecular Biology等期刊上以通讯作者发表文章。中国昆虫学会昆虫比较免疫与互作专业委员会主任，中国昆虫学会基因组专业委员会委员，中国昆虫学会理事，北京昆虫学会理事。主持或作为课题骨干参加的科研项目有科技部“973”项目（子课题主持）、中科院战略性B类先导科技专项（青年课题组长）、国家自然科学基金面上项目、国家科技重大专项、中科院前沿重点研究计划“从0到1”项目等。研究重点包括：（1）以灰飞虱-水稻条纹病毒RSV-水稻为模式系统，探讨持久增殖型植物病毒与昆虫介体互作的分子机理及传播机制；（2）库蚊传播辛德毕斯病毒的分子机制。

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- 新一代RNA干扰防虫技术的开发研究, 中科院-CSIRO合作项目, 主持, 2020.04.01-2023.03.31
- 病毒小RNA调控媒介昆虫传播能效的机制研究, 中科院前沿重点研究计划“从0到1”项目, 主持, 2019.09.30-2024.09
- 水稻条纹病毒调控媒介昆虫应激蛋白激酶信号通路的研究, 国家自然科学基金面上项目, 主持, 2018.1-2021.12
- 灰飞虱与水稻条纹叶枯病种间信息流的识别机制, 中国科学院战略性先导科技专项子课题, 主持, 2014.7-2019.6
- 唾液腺基因在灰飞虱传播水稻条纹病的作用和机理, 国家973计划项目专题, 主持, 2014.1-2018.12

代表论著:

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2. Zhao W[#], Xu Z[#], Zhang X, Yang M, Kang L^{*}, Liu R^{*}, **Cui F^{*}**. 2018. Genomic variations in the 3'-termini of *Rice stripe virus* in the rotation between vector insect and host plant. *New Phytologist*. 219: 1085-1096.
3. Zhao W, Yang P, Kang L^{*}, **Cui F^{*}**. 2016. Different pathogenicities of rice stripe virus from the insect vector and from viruliferous plants. *New Phytologist*. 210: 196-207.
4. Chen X, Yu J, Wang W, Lu H, Kang L^{*}, **Cui F^{*}**. 2020. A plant virus ensures viral stability in the hemolymph of vector insects through suppressing prophenoloxidase activation. *mBio*. 11: e01453-20. Doi: 10.1128/mBio.01453-20.
5. Cui N[#], Lu H[#], Wang T, Zhang W, Kang L^{*}, **Cui F^{*}**. 2019. Armet, an aphid effector protein, induces pathogen resistance in plants by promoting the accumulation of salicylic acid. *Philosophical Transactions of the Royal Society B-Biological Sciences*. 374: 20180314.

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授权专利:



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