

# 简 历

个人信息			
姓名	吕宝乾	性别	男
职称	研究员		
研究所	中国热带农业科学院环境与植物保护研究所		
电子邮箱	lyubaoqian@qq.com		
地址	海南省海口市龙华区学院路 4 号		
电话	17789850926	传真	
研究方向			
入侵生物学与生物防治			
学习&工作经历			
1996-09 至 2000-07 山东农业大学, 植物保护, 学士 2000-09 至 2003-07 福建农林大学, 农业昆虫与害虫防治, 硕士 2007-06 至 2010-12 澳大利亚新英格兰大学, 昆虫学, 博士 2003-07 至 2011-12 中国热带农业科学院, 环境与植物保护研究所, 助理研究员 2012-01 至 2016-12 中国热带农业科学院, 环境与植物保护研究所, 副研究员 2017-01 至 今 中国热带农业科学院, 环境与植物保护研究所, 研究员			



## 代表性成果

论文、专著、专利、品种、标准、承担项目、获奖成果等（每种代表性成果限 5 项）。  
论文:

- [1] **Lyu Baoqian\***; Wang Shuchang; Wyckhuys Kris A G, et al. Biological pest control protects pollinators.[J].**Science (New York, N.Y.)**,2023,380,251-251.
- [2] Shuchang Wang, Sanqiang Yan, **Baoqian Lyu\***, et al. Pre-adult thermal experience induces body color differentiation of *Habrobracon hebetor* and increases its potential to control hosts under high temperatures. **Entomologia generalis**. 2024,44,181-189.
- [3] Hui Lu, **Baoqian Lyu\***, Jihong Tang, et al. Ecology, invasion history and biodiversity-driven management of the coconut black-headed caterpillar *Opisina arenosella* in Asia.[J]. **Frontiers in plant science**,2023,141116221-1116221.
- [4] **Baoqian Lyu\***, Zhengqiang Peng, Hui Lu, et al. Inter-country trade, genetic diversity and bio-ecological parameters upgrade pest risk maps for the coconut hispid *Brontispa longissima*. [J]. *Pest management science*, 2020, 76(4):1483-1491.
- [5] Gu Fuxiong, Lu Hui, **Lyu Baoqian\***, et al. Seasonal migration pattern of an important rice pest, *Nilaparvata lugens* (Hemiptera: Delphacidae), on Hainan Island, China. [J]. *Journal of economic entomology*, 2024, 117(3):933-941.

专著:

- [1] **吕宝乾**, 卢辉, 郭安平 (2022) 《南繁区主要病虫害原色图谱》中国农业科学技术出版社
- [2] **吕宝乾**, 卢辉, 王树昌 (2023) 《中国热带地区草地贪夜蛾监测与绿色防控技术》中国农业科学技术出版社
- [3] 卢辉, **吕宝乾**, 唐继洪 (2020) 《南繁有害生物·基础篇》 中国农业科学技术出版社
- [4] 卢辉, **吕宝乾**, 唐继洪 (2021) 《南繁有害生物·检测与监测篇》 中国农业科学技术出版社
- [5] 卢辉, **吕宝乾**, 唐继洪 (2022) 《南繁有害生物·防治篇》 中国农业科学技术出版社

专利:

- [1] **吕宝乾**, 刘卓, 张起恺, 等. 一种基于振动信号防控鳞翅目害虫的方法. CN202410077576.1, 2024-05-10.
- [2] **吕宝乾**, 符舜, 卢辉, 等. 一种多功能种衣剂及其制备方法和应用. CN202211112823. 4, 2024-08-06.
- [3] **吕宝乾**, 杨德雁, 卢辉, 等. 一种莱氏绿僵菌及其应用. CN202411274470.7, 2024-11-26.
- [4] **吕宝乾**, 符兵, 何杏, 等. 一种植物保护剂及其使用方法. CN201910209150. 6, 2021-10-08.
- [5] **吕宝乾**, 符兵, 何杏, 等. 一种生物防治入侵害虫椰子织蛾的方法 CN201910196942. 4, 2021-06-15.

标准:

- [1] **吕宝乾**, 卢辉, 张曼丽, 唐继洪, 何杏. 草地贪夜蛾调查监测技术规程, 地方标准, DB46/T 537-2021, 海南省农业农村厅, 2021-09-01.
- [2] **吕宝乾**, 马光昌, 彭正强, 何杏, 覃伟权, 温海波, 阎伟, 金涛, 龚治, 金启安. 热带作物病虫害防治技术规程 椰子织蛾, 行业标准, NY/T 3515-2019, 农业农村部热带作物及制

品标准化技术委员会, 2019-12-27.

[3] 彭正强, 吕宝乾, 覃伟权, 李朝绪, 金涛, 黄山春, 金启安, 阎伟, 温海波, 王东明, 李洪. 椰心叶甲啮小蜂和截脉姬小蜂繁殖与释放技术规程, 行业标准, NY/T 2447-2013, 农业农村部热带作物及制品标准化技术委员会, 2014-01-01.

承担项目:

[1] 国家自然科学基金地区项目, 浅黄体色麦蛾柔茧蜂耐热性增强的机制研究, 32360703, 2024.01-2027.12, 主持

[2] 国家自然科学基金面上项目, 高低纬度周氏啮小蜂种群体色分化及分子遗传机制研究, 32472645, 2025.01-2028.12, 主持

[3] 海南省重点研发项目, 多数据源监测分析海南草地贪夜蛾和稻飞虱迁飞规律及应用, ZDYF2024XDNY270, 2024.02-2027.02, 主持

[4] 海南省重点研发计划, 海南-越南重要跨境害虫联合监测及防控技术合作研究, GHYF2022002, 2022-2024, 主持

[5] 农业农村部财政项目, 热带迁飞害虫雷达监测及稻瘟病监测, 152307086, 2019-2023, 主持

获奖成果:


**成果名称: 海南瓜菜重要夜蛾类害虫综合防控技术集成与示范推广**

**类别名称: 海南省科学技术奖**

**奖励等级: 一等奖**

## CURRICULUM VITAE

Personal Information			
Name	Baoqian Lyu	Gender	Man
Position Title	Researcher		
Institute	Institute of Environment and Plant Protection, Chinese Academy of Tropical Agricultural Sciences		
Email	Lyubaoqian@qq.com		
Address	4 Xueyuan Road, Longhua District, Haikou City, Hainan Province		
Tel	17789850926	Fax	
Research Interest			
Invasion biology and biological control Investigation and identification of natural enemies			
Education & Working Experience			



**September 1996-July 2000** Shandong Agricultural University, Plant Protection, Bachelor's Degree

**September 2000-July 2003** Fujian Agriculture and Forestry University, Agricultural Entomology and Pest Control, Master's Degree

**June 2007 -December 2010** University of New England, Australia, Entomology, Ph.D.

**July 2003- December 2011** Chinese Academy of Tropical Agricultural Sciences, Environment and Plant Protection Institute, Assistant Researcher

**January 2012 -December 2016** Chinese Academy of Tropical Agricultural Sciences, Environment and Plant Protection Institute, Associate Researcher

**January 2017 - Present** Chinese Academy of Tropical Agricultural Sciences, Environment and Plant Protection Institute, Researcher

**Representative Result**

Article:

- [1] **Lyu Baoqian\***; Wang Shuchang; Wyckhuys Kris A G, et al. Biological pest control protects pollinators.[J].Science (New York, N.Y.),2023,380,251-251.
- [2] Shuchang Wang, Sanqiang Yan, **Baoqian Lyu\***, et al. Pre-adult thermal experience induces body color differentiation of *Habrobracon hebetor* and increases its potential to control hosts under high temperatures. *Entomologia generalis*. 2024,44,181-189.
- [3] Hui Lu, **Baoqian Lyu\***, Jihong Tang, et al. Ecology, invasion history and biodiversity-driven management of the coconut black-headed caterpillar *Opisina arenosella* in Asia.[J]. *Frontiers in plant science*,2023,141116221-1116221.
- [4] **Baoqian Lyu\***, Zhengqiang Peng, Hui Lu, et al. Inter-country trade, genetic diversity and bio-ecological parameters upgrade pest risk maps for the coconut hispid *Brontispa longissima*. [J]. *Pest management science*,2020,76(4):1483-1491.
- [5] Gu Fuxiong, Lu Hui, **Lyu Baoqian\***, et al. Seasonal migration pattern of an important rice pest, *Nilaparvata lugens* (Hemiptera: Delphacidae), on Hainan Island, China. [J]. *Journal of economic entomology*,2024,117(3):933-941.

Monograph:

- [1] **Lyu Baoqian**, Lu Hui, Guo Anping (2022). Atlas of Major Pests and Diseases in the Nanfan Region. China Agriculture Science and Technology Press.
- [2] **Lyu Baoqian**, Lu Hui, Wang Shuchang (2023). Monitoring and Green Control Techniques for Fall Armyworm in Tropical Regions of China. China Agriculture Science and Technology Press.
- [3] Lu Hui, **Lyu Baoqian**, Tang Jihong (2020). Harmful Organisms in the Nanfan Region: Basics. China Agriculture Science and Technology Press.
- [4] Lu Hui, **Lyu Baoqian**, Tang Jihong (2021). Harmful Organisms in the Nanfan Region: Detection and Monitoring. China Agriculture Science and Technology Press.
- [5] Lu Hui, **Lyu Baoqian**, Tang Jihong (2022). Harmful Organisms in the Nanfan Region: Control. China Agriculture Science and Technology Press.

Patents:

- [1] **Lyu Baoqian**, Liu Zhuo, Zhang Qikai, et al. A Method for Controlling Lepidopteran Pests Based on Vibration Signals. CN202410077576.1, 2024-05-10.
- [2] **Lyu Baoqian**, Fu Shun, Lu Hui, et al. A Multifunctional Seed Coating Agent, Its Preparation Method, and Application. CN202211112823.4, 2024-08-06.
- [3] **Lyu Baoqian**, Yang Deyan, Lu Hui, et al. A Strain of *Metarhizium rileyi* and Its Application. CN202411274470.7, 2024-11-26.
- [4] **Lyu Baoqian**, Fu Bing, He Xing, et al. A Plant Protection Agent and Its Usage Method. CN201910209150.6, 2021-10-08.
- [5] **Lyu Baoqian**, Fu Bing, He Xing, et al. A Biological Control Method for the Invasive Pest Coconut Leaf Moth. CN201910196942.4, 2021-06-15.

Standards:

- [1] **Lyu Baoqian**, Lu Hui, Zhang Manli, Tang Jihong, He Xing. Technical Regulations for the Investigation and Monitoring of Fall Armyworm. Local Standard, DB46/T 537-2021, Hainan Provincial Department of Agriculture and Rural Affairs, 2021-09-01.

[2] **Lyu Baoqian**, Ma Guangchang, Peng Zhengqiang, He Xing, Qin Weiquan, Wen Haibo, Yan Wei, Jin Tao, Gong Zhi, Jin Qian. Technical Regulations for the Prevention and Control of Tropical Crop Pests and Diseases: Coconut Leaf Moth. Industry Standard, NY/T 3515-2019, Tropical Crop and Products Standardization Technical Committee, Ministry of Agriculture and Rural Affairs, 2019-12-27.

[3] Peng Zhengqiang, **Lyu Baoqian**, Qin Weiquan, Li Chaoxu, Jin Tao, Huang Shanchun, Jin Qian, Yan Wei, Wen Haibo, Wang Dongming, Li Hong. Technical Regulations for the Breeding and Release of *Bracon cotescii* and *Asecodes hispinarum*. Industry Standard, NY/T 2447-2013, Tropical Crop and Products Standardization Technical Committee, Ministry of Agriculture and Rural Affairs, 2014-01-01.

Projects Undertaken:

[1] National Natural Science Foundation Regional Project: Mechanisms of Enhanced Heat Tolerance in *Microplitis prodeniae*, 32360703, 2024.01–2027.12, Principal Investigator.

[2] National Natural Science Foundation General Project: Population Color Differentiation and Molecular Genetic Mechanisms of *Trichogramma chilonis* in High and Low Latitudes, 32472645, 2025.01–2028.12, Principal Investigator.

[3] Key Research and Development Project of Hainan Province: Multi-Source Data Monitoring and Analysis of Migration Patterns of Fall Armyworm and Rice Planthopper in Hainan and Its Application, ZDYF2024XDNY270, 2024.02–2027.02, Principal Investigator.

[4] Key Research and Development Plan of Hainan Province: Joint Monitoring and Control Technology Cooperation for Major Cross-Border Pests Between Hainan and Vietnam, GHYF2022002, 2022–2024, Principal Investigator.

[5] Ministry of Agriculture and Rural Affairs Funded Project: Radar Monitoring of Tropical Migratory Pests and Monitoring of Rice Blast Disease, 152307086, 2019–2023, Principal Investigator.

The translation of the award details is as follows:

**Project Title:** Integrated Control Technology and Demonstration Promotion for Major Noctuid Pests in Hainan Cucumber and Vegetable Crops

**Award Category:** Hainan Provincial Science and Technology Award

**Award Level:** First Prize