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师资队伍

教授

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博士生导师

硕士生导师

教授

副教授

讲师

实验 (工程系列)

秦庆明

时间: 2018-03-30
点击: 1230

Qing-Ming Qin, Ph.D., Professor

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秦庆明教授是吉林大学海外优秀人才引进计划特聘教授，也是吉林省高层次创新人才引进计划人才。2012年加盟吉林大学并组建了吉林大学寄主-病原分子互作开放实验室，为实验室负责人。秦庆明教授长期从事植物及医学病原微生物致病分子机理、寄主-病原分子互作及寄主免疫/抗病分子机理等研究工作，已发表研究论文50余篇，包括以通讯作者和/或第一作者在*Cell Host & Microbe*, *PLoS Pathogens*, *Environmental Microbiology*等领域顶尖或权威学术期刊上发表了多篇高质量的研究论文。其中，有两篇研究论文被著名的*Faculty of 1000*评论和列为具有标志性重大创新成果的必读研究论文和*PLoS Pathogens*特色研究论文。秦庆明教授频繁被相关国际学术会议组委会特邀作大会报告或做学术会议主持人，并常被邀请为*New Phytologist*, *Molecular Microbiology*等二十多家国际著名学术期刊的特邀审稿人或加盟成为学术期刊的编委成员。

研究领域 (Research Interests)

My laboratory is interested in understanding the cellular and molecular mechanisms underlying host-microbe (both medical and plant pathogens) interactions. By using multiple cutting-edge technologies such as gene knockout, immunofluorescence confocal microscopy, transcriptomics, proteomics/phosphoproteomics, etc., we currently focus on genome-wide functional analysis of virulence-associated factors in *Botrytis cinerea*, the gray mold fungus that infects over 500 plant species and annually causes enormous economic losses worldwide, and dissection of molecular and/or biochemical mechanisms of the pathogenicity-associated factors that regulate the pathogen development and host infection as well as host immune responses.

教育和培训 (Education & Training)

Postdoc, 2002/12–2005/10, University of California, Davis

Ph.D., 1999/09–2002/07, China Agricultural University, Beijing, China

M.S., 1990/09–1993/07, China Agricultural University, Beijing, China

B.S., 1986/09–1990/07, Guangxi University, Nanning, China

职业经历 (Professional Experience)

Jilin University, Changchun, Jilin, China

Full Professor: Dept. of Plant Protection, College of Plant Sciences & Key Laboratory of Zoonosis Research, Ministry of Education, Jilin University, China, March, 2012-Present

Texas A&M Health Science Center/Texas A&M University, College Station, Texas, USA

Visiting Professor: Dept. of Microbial Pathogenesis and Immunology, Texas A&M Health Science Center, College Station, Texas 77843, USA, 07/2016– 08/ 2017

Senior Research Scientist: Borlaug Advanced Research Center, Dept. of Plant Pathology and Microbiology & Dept. of Veterinary Pathobiology, 10/2005 – 03/2012

Institute of Plant Protection, Chinese Academy of Agricultural Sciences, Beijing, China

Assistant Professor: Department of plant disease, 10/1995 – 12/2002

China Agricultural University, Beijing, China

Assistant Professor: Department of Plant Pathology, 07/1993 – 10/1995

教学 (Teaching)

1. Advance in Life Science Research (for Ph.D. Student)
2. Advanced Research Methods for Plant Pathology (for Graduate Students)
3. Writing Journal-Style Scientific Papers in English (for Graduate Students)
4. Agricultural Plant Pathology (for Undergraduate Students)

近年科研项目 (Research Projects in Recent Years)

1. Molecular mechanisms of histone demethylase BcJar1 regulating the development and pathogenicity of the plant gray mold fungus *Botrytis cinerea*, NSFC (Grant #: 31871913), 01/2019-12/2022, **Role: PI.**
2. Research and demonstration of technology integration in the Reduction and pesticide in Northern rice production areas, the National Key Research and Development Program of China, 01/2018-12/2020. **Role: Participant.**
3. Molecular mechanism of *Brucella* subversion of host IRE1 α and its signal cascade for the pathogen's successful infection, NSFC (Grant #: 81371773), 01/2014-12/2017, **Role: PI.**
4. The Chinese Special Fund for Agro-scientific Research in the Public Interest (Grant# 201303025), Ministry of Agriculture, P.R. China, 01/2013-12/2017, **Role: Participant.**
5. The recruitment Program of Overseas Talents, Jilin University (Grant #: 4305050102), 03/2012-03/2015, **Role: PI.**
6. Identification of host unfolded Protein response (UPR) factors that mediate *Brucella* infection, Jilin University, 05/2013-05/2016, **Role: PI.**
7. The recruitment program of High-level Innovative Talents of Jilin Province, 01/2013-12/2016, **Role: PI.**

代表性论文 (Selected Publications, * Corresponding Authr, IF: impact factor)

1. Liu Y, Liu JK, Li GH, Zhang MZ, Zhang YY, Wang YY, Hou J, Yang S, Sun J, Qin QM*. (2019) A novel *Botrytis cinerea*-specific gene BcHBF1 enhances

- virulence of the grey mould fungus via promoting host penetration and invasive hyphal development. *Molecular Plant Pathology*, 20(5):731-747. doi: [10.1111/mpp.12788](https://doi.org/10.1111/mpp.12788). PMID: 31008573. (IF₂₀₁₈: 4.188)
2. Liu JK, Chang HW, Liu Y, Qin YH, Zhang MZ, Cao SN, Li LT, Li GH*, **Qin QM***. (2018). The key gluconeogenic gene *PCK1* is crucial for virulence of *Botrytis cinerea* via initiating its conidial germination and host penetration. *Environmental Microbiology*, 20(5):1794-1814. doi: [10.1111/1462-2920.14112](https://doi.org/10.1111/1462-2920.14112). PMID: 29614212. (IF_{5-yr}: 5.965)
 3. Pandey A, Lin F, Cabello, AL, da Costa LF, Feng X, Feng HQ, Zhang MZ, Iwawaki T, Rice-Ficht A, Ficht TA, de Figueiredo P, **Qin QM*** (2018). Activation of host IRE1 α -dependent signaling axis contributes the intracellular parasitism of *Brucella melitensis*. *Frontiers in Cellular and Infection Microbiology*. doi: [10.3389/fcimb.2018.00103](https://doi.org/10.3389/fcimb.2018.00103), PMID: 29732320. (IF₂₀₁₇: 4.3)
 4. Ren W, Liu N, Sang C, Shi D, Zhou M, **Qin QM***, Chen C*. (2018). The autophagy gene *BcATG8* regulates vegetative differentiation and plant infection of *Botrytis cinerea*. *Applied and Environmental Microbiology*, doi:10.1128/AEM.02455-17. (IF_{5-yr}: 4.52)
 5. Cao SN, Yuan, Y, Qin YH, Zhang MZ, de Figueiredo P, Li GH*, and **Qin, QM***. (2018). The pre-rRNA processing factor Nop53 regulates fungal development and pathogenesis via mediating production of reactive oxygen species. *Environmental Microbiology*, 20(4):1531-1549. doi: [10.1111/1462-2920.14082](https://doi.org/10.1111/1462-2920.14082), PMID: 29488307. (IF_{5-yr}: 5.965)
 6. Pandey A#, Ding SL#, **Qin QM#**, Gupta R, Gomez G, Lin F, Feng X, Fachini da Costa L, Chaki SP, Katepalli M, Case ED, van Schaik EJ, Sidiq T, Khalaf O, Arenas A, Kobayashi KS, Samuel JE, Rivera GM, Alaniz RC, Sze SH, Qian X, Brown WJ, Rice-Ficht A, Russell WK, Ficht TA, de Figueiredo P. (2017). Global Reprogramming of Host Kinase Signaling in Response to Fungal Infection. *Cell Host Microbe*, 10; 21(5): 637-649. DOI: [10.1016/j.chom.2017.04.008](https://doi.org/10.1016/j.chom.2017.04.008), PMID: 28494245. (#: Co-first authors) (IF₂₀₁₇: 14.946)
 7. Feng HQ, Li GH, Du SW, Yang S, Li XQ, de Figueiredo P, **Qin QM***. (2017). The septin protein Sep4 facilitates host infection by plant fungal pathogens via mediating initiation of infection structure formation. *Environmental Microbiology*. 19(5):1730-1749. doi: [10.1111/1462-2920.13613](https://doi.org/10.1111/1462-2920.13613), PMID: 27878927. (IF_{5-yr}: 6.24)
 8. Sun XQ, Zhang MX, Yu JY, Jin Y, Ling B, Du JP, Li G, **Qin QM***, and Cai QN*. (2013). Rice brown planthopper (*Nilaparvata lugens*) glutathione S-transferase is essential for its adaptation to gramine-containing host plants. *PLoS One*, 8(5):e64026. doi: 10.1371/journal.pone.0064026. (IF_{5-yr}: 4.12)
 9. **Qin QM***, Luo J, Lin X, Pei J, Li L, Ficht TA, de Figueiredo P*. (2011). Functional

analysis of host factors that mediate the intracellular lifestyle of *Cryptococcus neoformans*. *PLoS Pathogens*, 7(6):e1002078 (**Faculty of 1000** 评论并被 *PLoS Pathogens* 评选为该刊的特色研究论文加以评论) (IF₂₀₁₁: 9.13)

10. Jupiter DC, Ficht TA, **Qin QM**, Rice-Ficht AC, Samuel J, de Figueiredo P. (2010). Genomic Polymorphisms as Inherent Watermarks for Tracking Infectious Agents. *Frontiers in Microbiology*. 1:109. doi: 10.3389/fmicb.2010.00109. (IF_{5-yr}: 4.3)
11. Jupiter DC, Ficht TA, Samuel J, **Qin QM**, de Figueiredo P. (2010). DNA Watermarking of Infectious Agents: Progress and Prospects. *PLoS Pathogens* 17; 6(6): e1000950. (IF₂₀₁₁: 9.079)
12. **Qin QM***, Pei J, Ancona V, Shaw BD, Ficht TA, and de Figueiredo P*. (2008). RNAi Screen of Endoplasmic Reticulum-Associated Host Factors Reveals a Role for IRE1a in *Brucella* Replication. *PLoS Pathogens* 4 (7): e1000110. doi:10.1371/journal.ppat.1000110. (**Faculty of 1000** 评论并被 *PLoS Pathogens* 评为该刊的特色研究论文加以评论). (IF₂₀₀₈: 9.34)
13. **Qin QM**, Vallad GE, and Subbarao KV. (2008). Characterization of *Verticillium dahliae* and *V. tricorpus* isolates from lettuce and artichoke. *Plant Disease* 92: 69-77. (IF_{5-yr}: 3.2)
14. **Qin QM**, Vallad GE, Wu BM, Subbarao KV. (2006). Phylogenetic Analyses of Phytopathogenic Isolates of *Verticillium* spp. *Phytopathology*, 96(6): 582-592. (IF_{5-yr}: 3.1)

学术荣誉 (Awards and Honors)

1. 吉林大学“大学生创新创业训练计划”国家级优秀项目指导教师，2019年
2. 吉林大学“优秀博士学位论文（百篇）奖”指导教师，2018年
3. 吉林大学“优秀硕士学位论文（百篇）奖”指导教师，2017年
4. 吉林大学“大学生创新创业训练计划”国家级优秀项目指导教师，2017年
5. 吉林大学“优秀毕业论文（设计）奖”指导教师，2017年
6. 吉林大学“大学生创新创业训练计划”国家级优秀项目指导教师，2014年
7. 吉林大学“优秀毕业论文（设计）奖”指导教师，2014年
8. 吉林省高层次创新创业人才引进计划，2012
9. Faculty of 1000 (Must Read) 论文，2011
10. Faculty of 1000 (Must Read) 论文，2008

其它学术活动 (Other Academic Activities)

1. *Frontiers in Cell and Developmental Biology* (Nature Publication Group, NPG), Review Editor, 01/2015-present.
2. *Frontiers in Cellular and Infection Microbiology* (NPG), Review Editor, 01/2013-12/2017.
3. Independently invited to review manuscripts for international academic journals such as *New Phytologist*, *Molecular Microbiology*, *PLoS One*, *Cellular & Molecular Biology*

Letters, BMC Infectious Diseases, Canadian Journal of Plant Pathology, Frontiers in Cellular and Infection Microbiology, Frontiers in Cell and Developmental Biology, Gene Regulation and Systems Biology, Acta Phytopathologica Sinica, Acta Ecologica Sinica etc.

本实验室拥有优秀的科研平台和学术氛围。我们与来自美国加州大学戴维斯分校，德克萨斯大学奥斯汀分校，德克萨斯A&M大学等多所世界著名大学相关研究领域的国际知名教授、学者保持长期的合作关系。毕业学生已开始活跃在包括清华、北大、中科院、北京生命科学研究所（National Institute of Biological Sciences, NIBS）、卡内基(梅隆大学、德克萨斯A&M大学等多所世界顶尖大学和科研院所相关的研究领域。欢迎对本研究领域感兴趣的从本科生、硕/博士研究生到博士后和访问学者不同阶层的有志者到实验室访问、交流和学习。

Our laboratory has excellent research platform and academic environment. We have maintained long-term academic cooperations with many outstanding professors working in the related fields from the worldwide famous universities such as University of California at Davis, the University of Texas at Austin, Texas A&M University, etc. Graduated students have become active in related research areas in ranked top universities and institutes, including Tsinghua, Peking University, Chinese Academy of Sciences, National Institute of Biological Sciences (NIBS), Carnegie Mellon University, Texas A&M University, etc., in the world. Aspirants, from undergraduate students, MS and PhD graduate students to postdocs and visiting scholars, who are interested in our research are welcome to visit, study and/or do research in our lab.

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