

Hongqing (Michelle) Guo, Ph.D.

Curriculum vitae

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1 Professional Information

1.1 Contact Information

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Iowa State University
Ames, IA 50011

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1.2 Education

May 2019 **Ph.D. in Genetics and Genomics**
Iowa State University, Ames, IA
Thesis: *Deciphering the receptor kinase FERONIA: Functions and underlying mechanisms*
Advisors: Jo Anne Powell-Coffman, Ph.D. and Steve A. Whitham, Ph.D.

July 1991 **M.S. in Plant Biology**
Beijing Normal University, Beijing, China
Institute of Genetics and Developmental Biology,
Chinese Academy of Sciences, Beijing, China
Thesis: *Transformation and regeneration of wheat*
Advisors: Professor Shuzu Zhang and Professor Wenzhong Tian

July 1988 **BS in Biology**
Beijing Normal University, Beijing, China

1.3 Employment and Professional Experience

Jan 2022-present **Assistant Professor**
Department of Genetics, Development and Cell Biology
Iowa State University, Ames, IA

Aug 2019-Dec 2021 **Adjunct Assistant Professor**
Department of Genetics, Development and Cell Biology
Iowa State University, Ames, IA

Aug 2013-May 2019 **Graduate Research Associate**
Department of Genetics, Development and Cell Biology
Iowa State University, Ames, IA

Aug 2004-July 2019 **Assistant Scientist**
Department of Genetics, Development and Cell Biology
Iowa State University, Ames, IA

May 1995-Aug 2004 **Senior Associate Scientist**

Johnson&Johnson, Pharmaceutical and Research Development
San Diego, CA

Projects involved and expertise acquired:

Gene discovery: Differential Display, cDNA/Oligo Microarray,
Laser Capture Microdissection, RNA amplification.

Drug discovery: High-through-put screening of chemical compound
libraries for drug target identification.

Managerial position: Leading a small group in carrying out Microarray
experiments for multiple research groups.

- Feb 1992-May 1995 **Research Technician**
Department of Cell Biology, The Scripps Research Institute, La Jolla, CA
Projects involved: *A novel calmodulin-regulated Ca²⁺-ATPase (ACA2) from Arabidopsis with an N-terminal autoinhibitory domain*
- Aug 1991-Feb 1992 **Research Associate**
Department of Endocrinology, The Institute of Zoology,
Chinese Academy of Sciences, Beijing, China
- Sep 1989-July 1991: **MS Student**
The Institute of Genetics and Development,
Chinese Academy of Sciences, Beijing, China

1.4 Honors and Awards

- 2009 Outstanding Research Award for P&S, College of Liberal Arts and Sciences, ISU

1.5 Professional Societies

- 2019-present The American Society of Plant Biology

1.6 Memberships at Iowa State University

- 2019-present Interdepartmental Plant Biology (IPB) Graduate Program
- 2019-present Molecular, Cellular and Developmental Biology (MCDB) Graduate Program
- 2022-present Interdepartmental Genetics and Genomics (IGG) Graduate Program
- 2021-present Crop Bioengineering Center

2 Scholarships in Research

2.1 Publications

https://scholar.google.com/citations?hl=en&user=luA7XeEAAAAAJ&view_op=list_works&sortby=pubdate

42. Liao CY, Y Pu, TM Nolan, C Montes, **H Guo**, JW Walley, Y Yin, and DC Bassham. 2022. Brassinosteroids modulate autophagy through phosphorylation of RAPTOR1B by the GSK3-like kinase BIN2 in Arabidopsis. **Autophagy**, in press.
41. Montes C, P Wang, CY Liao, TM Nolan, G Song, NM Clark, JM Elmore, **H Guo**, DC Bassham, Y Yin, JW Walley. 2022. Integration of multi-omics data reveals interplay between brassinosteroid and TORC signaling in Arabidopsis. **New Phytol**, 236: 893–910.
40. Xiong, J. W., Yang, F. B., Yao, X. H., Zhao, Y. Q., Wen, Y., Lin, H. H., **Guo, H. Q.**, Yin, Y. H., and Zhang, D. W. 2022. The deubiquitinating enzymes UBP12 and UBP13 positively regulate recovery after carbon starvation by modulating BES1 stability in Arabidopsis thaliana. **Plant Cell**, 34 (11): 4516-4530.
39. Wang P, NM Clark, TM Nolan, G Song, OG Whitham, CY Liao, C Montes-Serey, DC Bassham, JW Walley, Y Yin, **H Guo*** (2022) Feronia functions through Target of Rapamycin (TOR) to negatively regulate autophagy. **Front Plant Sci**,13:961096.
38. Wang P, Clark MC, Nolan TM, Song G, Bartz PM, Liao CY, Montes C, Katz E, Polko JK, Kieber JJ, Kliebenstein DJ, Bassham DC, Walley JW, Yin Y*, **Guo H***. 2022. Integrated Omics Reveal Novel Functions and Underlying Mechanisms of FERONIA Receptor Kinase in *Arabidopsis thaliana*. **Plant Cell**. 34 (7): 2594-2614. (*co-corresponding author)
(In Brief: <https://academic.oup.com/plcell/advance-article/doi/10.1093/plcell/koac112/6569841>)
37. Wang P, Nolan TM, Clark NM, Jiang H, Montes C. **Guo H**, Bassham DC, Walley JW, Yin Y. 2021. F-box E3 Ubiquitin Ligase BAF1 Mediates the Degradation of Brassinosteroid-activated Transcription Factor BES1 through Selective Autophagy in Arabidopsis. **Plant Cell**. 0:1-23
36. Clark NM, Nolan TM, Wang P, Song G, Montes C, **Guo H**, Sozzani R, Yin Y, Walley JW. 2021. Integrated omics networks reveal the temporal signaling events of brassinosteroid response in Arabidopsis. **Nature Communications**. 12:5858
35. Zhang D, Tan W, Li J, Wen Y, **Guo H**, Liu B, Yin Y, Lin H. 2021. BRASSINOSTEROID INSENSITIVE2 Phosphorylates GOLDEN2-LIKE1 to Modulate Brassinosteroid Responses and Photomorphogenesis during Chloroplast Development. **Developmental Cell** 56 (3), 310-324. e7
34. **Guo H,*** Yin, Y. 2019. Measuring protein half-life in Arabidopsis thaliana. **Bio-Protocol** 9 (15) : e3318. (*corresponding author)

33. Hansen RL, **Guo H**, Yin Y, Lee, YJ. **2019**. High-throughput Lipid Screening Discovers Arabidopsides as Biomarkers of FERONIA in Arabidopsis thaliana. **The Plant Journal**. 97(2): 341-351.
32. **Guo H***, Nolan T, Song G, Liu S, Xie, Z., Chen, J., Schnable, P., Walley, J and Yin, Y*. **2018**. Feronia receptor kinase contributes to plant immunity by suppressing Jasmonic acid signaling. **Current Biology**. 28: 3316-3324. (* co-corresponding author)
(News release: <https://www.news.iastate.edu/news/2018/10/24/feronia>)
31. Nolan, T., Liu, S., **Guo, H.**, Li, L., Schnable, S. & Yin, Y. **2017**. Identification of Brassinosteroid Target Genes by Chromatin Immunoprecipitation Followed by High-throughput Sequencing (ChIP-seq) and RNA-seq. **Method in Molecular Biology**. 1564: 63-79.
30. Ye, H., Liu, S., Tang, B., Nolan. T., Xie, Z., Chen, J., Schulte, R., **Guo, H.**, Li, Z., Aluru, M., Aluru, S., Schnable, P., Yin, Y. **2017**. RD26 mediates the crosstalk between drought and Brassinosteroid signaling pathway. **Nature Communications**. 8:14753
29. Chockalingam, S. P., Aluru, M., **Guo, H.**, Yin, Y., Aluru, S. **2017**. Reverse Engineering Gene Networks: A Comparative Study at Genome-scale. **The 8th ACM International Conference**. DOI: 10.1145/3107411.3107428.
28. Deng XG, Zhu T, Peng XJ, Xi DH, **Guo H**, Yin Y, Zhang DW, Lin HH. **2016**. Role of brassinosteroid signaling in modulating Tobacco mosaic virus resistance in Nicotiana benthamiana. **Sci Rep**. 6:20579.
27. Zhang, D, Yuan, S, Xu, F., Zhu, F., Yuan M., Ye, H., **Guo, H.**, Lv, X., Yin, Y. and Lin, H. **2016**. Light intensity affects chlorophyll synthesis during greening process by metabolite signal from mitochondrial alternative oxidase in Arabidopsis. **Plant Cell & Environment**. 39(1):12-25.
26. Wang, X., Chen J., Xie, Z., Liu, S., Nolan, T., Ye, H., Zhang, M., **Guo, H.**, Schnable, P.S., Li, Z. and Yin, Y. **2014**. Histone Lysine Methyltransferase SDG8 Is Involved in Brassinosteroid Regulated Gene Expression in *Arabidopsis thaliana*. **Molecular Plant**. 7: 1303-1315.
25. Zhang, D., Ye, H, **Guo, H.**, Johnson, A., Zhang, M., Lin, H, and Yin, Y. **2014**. Transcription Factor HAT1 is Phosphorylated by BIN2 Kinase and Mediates Brassinosteroid Repressed Gene Expression in Arabidopsis. **Plant J**. 77: 59-70.
24. Zhang, D., Ye, H, **Guo, H.**, Johnson, A., Zhang, M., Lin, H, and Yin, Y. **2014**. Transcription factors involved in brassinosteroid repressed gene expression and their regulation by BIN2 kinase. **Plant Signal Behav**. 9: e27849
23. **Guo H**, Li L, Aluru M, Aluru S, Yin Y. **2013**. Mechanisms and networks for brassinosteroid regulated gene expression. **Curr Opin Plant Biol**. 16:545-53.

22. Ye, H., Li, L., **Guo, H.**, Yin Y. **2012**. MYBL2 is a substrate of GSK3-like kinase BIN2 and acts as a corepressor of BES1 in brassinosteroid signaling pathway in *Arabidopsis*. **Proc Natl Acad Sci U S A**. 109: 20142-20147.
21. Yu, X., Li, L., Zola, J., Aluru, M., Ye, H., Foudree, A., **Guo, H.**, Anderson, S., Aluru, S., Liu, P., Rodermeel, S., and Yin, Y. **2011**. A Brassinosteroid transcriptional network revealed by genome-wide identification of BES1 target genes in *Arabidopsis thaliana*. **Plant J**. 65: 634-646
20. Li, L., Ye, H, **Guo, H.**, Yin Y. **2010**. *Arabidopsis* IWS1 interacts with transcription factor BES1 and is involved in Brassinosteroid regulated gene expression. **Proc Natl Acad Sci U S A**. 107:3918-3923
19. **Guo, H**, Li, L, Ye, H, Yu, X, Algreen, A, Yin Y. **2009**. Three Related Receptor-Like Kinases Are Required for Optimal Cell Elongation in *Arabidopsis thaliana*. **Proc Natl Acad Sci U S A**. 106: 7648-7653
18. **Guo, H.**, Ye, H., Li, L., Yin Y. **2009**. A family of Receptor-Like Kinases are regulated by BES1 and involved in plant growth in *Arabidopsis thaliana*. **Plant Signaling & Behavior**. **4**: 784-786
17. Maher, M, Wu, N, **Guo, H**, Dubin A, Chaplan, S, and Wickenden, A. **2009**. HCN Channels as Targets for Drug Discovery. **Combinatorial Chemistry & High Throughput Screening**, 12, 64-72.
16. Li, L, Yu, X, Thompson, A, **Guo, H.**, Yoshida, S, Asami, T, Chory, J, Yin Y. **2009**. *Arabidopsis* MYB30 is a direct target of BES1 and cooperates with BES1 to regulate brassinosteroid target gene expression. **Plant J**. 58: 275-286
15. Srivastava, R., Liu, J., **Guo, H.**, Yin, Y., Howell, S. **2009**. Regulation and processing of a plant peptide hormone, AtRALF23, in *Arabidopsis*. **Plant J**. 59: 930-939.
14. Yu X, Li L, Li L, **Guo H.**, Chory J, Yin Y. **2008**. Modulation of brassinosteroid-regulated gene expression by Jumonji domain-containing proteins ELF6 and REF6 in *Arabidopsis*. **Proc Natl Acad Sci USA**. 105: 7618-7623
13. **Guo H** and Chaplan SR. **2003**. Semi-Quantitative Real-Time PCR for Pain Research. **Methods Mol Med**. 99:225-238.
12. Kamme F, Salunga R, Yu J, Tran DT, Zhu J, Luo L, Bittner A, **Guo H**, Miller N, Wan J, Erlander M. **2003**. Single-cell microarray analysis in hippocampus CA1: demonstration and validation of cellular heterogeneity. **J Neurosci**. 23:3607-15.
11. Chaplan SR, **Guo H**, Lee DH, Luo L, Liu C, Kuei C, Velumian AA, Butler MP, Brown SM, Dubin AE. **2003**. Neuronal hyperpolarization-activated pacemaker channels drive neuropathic pain. **J Neurosci**. 23:1169-78.
10. Bender E, Buist A, Jurzak M, Langlois X, Baggerman G, Verhasselt P, Ercken M, **Guo H**, Wintmolders C, Van den Wyngaert I, Van Oers I, Schoofs L, Luyten W. **2002**. Characterization of an

orphan G protein- coupled receptor localized in the dorsal root ganglia reveals adenine as a signaling molecule. **Proc Natl Acad Sci.** 99:8573-8.

9. Bonaventure P, **Guo H**, Tian B, Liu X, Bittner A, Roland B, Salunga R, Ma X, Kamme F, Meurers B, Bakker M, Leysen J, Erlander, MG. **2002**. Nuclei and subnuclei gene expression profiling in mammalian brain. **Brain Research.** 943:38-47.

8. Salunga RC, **Guo H**, Luo L, Bittner A, Joy KC, Chambers JR, Wan JS, Jackson MR, Erlander MG. **1999**. Gene expression analysis via cDNA microarrays of laser capture microdissected cells from fixed tissue. **DNA Microarrays, A Practical Approach.** 121-137.

7. Chambers J, Angulo A, Amaratunga D, **Guo H**, Jiang Y, Wan JS, Bittner A, Frueh K, Jackson MR, Peterson PA, Erlander MG, Ghazal P. **1999**. DNA microarrays of the complex human cytomegalovirus genome: profiling kinetic class with drug sensitivity of viral gene expression. **J Virol.** 73:5757-66.

6. Luo L, Salunga RC, **Guo H**, Bittner A, Joy KC, Galindo JE, Xiao H, Rogers KE, Wan JS, Jackson MR and Erlander MG. **1999**. Gene expression profiles of laser-captured adjacent neuronal subtypes. **Nat Med.** 5:117-22.

5. Zhang KZ, Junnikkala S, Erlander MG, **Guo H**, Westberg JA, Meri S, Andersson LC. **1998**. Up-regulated expression of decay-accelerating factor (CD55) confers increased complement resistance to sprouting neural cells. **Eur J Immunol.** 28:1189-96.

4. Zhang KZ, Westberg JA, Paetau A, von Boguslawsky K, Lindsberg P, Erlander M, **Guo H**, Su J, Olsen HS, Andersson LC. **1998**. High expression of stanniocalcin in differentiated brain neurons. **Am J Pathol.** 153:439-45.

3. Harper JF, Hong B, Hwang I, **Guo H**, Stoddard R, Huang JF, Palmgren MG, Sze H. **1998**. A novel calmodulin-regulated Ca²⁺-ATPase (ACA2) from Arabidopsis with an N-terminal autoinhibitory domain. **J Biol Chem.** 273:1099-106.

2. Galindo JE, Poirier GMC, **Guo H**, Huvar A, Wagaman PC, Zhu J, Tench J, Wan JS, Erlander MG. **1997**. Differential display of RNA. **DNA Markers.** 225-236.

1. Yin Y, Li S, Chen Y, **Guo H**, Tian W, Chen Y, Li L. **1993**. Fertile plants regenerated from suspension culture-derived protoplasts of an indica type rice (*Oryza sativa* L.). **Plant Cell, Tissue and Organ Culture.** 32:61-68.

Patent

Hongqing Guo and Yanhai Yin, **2011**, Modulation of Receptor-Like Kinases for Promotion of Plant Growth US2011/0138498

Sandra Chaplan, Adrienne Dubin, **Hong-Qing Guo**, Doo Hyun Lee, Changlu Liu, Lin Luo, Sean Brown, **2002**, Treating pain by targeting hyperpolarization-activated, cyclic nucleotide-gated channels, Publication number: 20030022813

2.2 Research Presentations

- July 2022 “Integrated Omics Reveal Novel Functions and Underlying Mechanisms of FERONIA Receptor Kinase Signaling in *Arabidopsis thaliana*”. Selected speaker. ASPB, Portland, Oregon
- June 2022 “Integrated Omics Reveal Novel Functions and Underlying Mechanisms of FERONIA Receptor Kinase Signaling in *Arabidopsis thaliana*”. Selected speaker. ICAR, virtual meeting
- Oct 2021 “FERONIA Receptor Kinase Regulates Autophagy in *Arabidopsis thaliana*”. EMBO Workshop “Target of rapamycin (TOR) signaling in photosynthetic organisms”, Selected speaker.; virtual meeting
- Nov 2021 “Functions and Molecular Mechanisms of FERONIA Receptor Kinase in Plant Growth and Stress responses”. Invited speaker. GDCB departmental seminar, Iowa State University
- Sep 2021 “Functions and Molecular Mechanisms of FERONIA Receptor Kinase in Plant Growth and Stress responses”. Invited speaker. IPB faculty Seminar, Iowa State University
- Sep 2020 “Deciphering FERONIA Receptor Kinase: Functions and Mechanisms in *Arabidopsis*”. Invited speaker. GDCB departmental seminar, Iowa State University
- Oct 2019 “Deciphering FERONIA Receptor Kinase: Functions and Mechanisms in *Arabidopsis*”. Invited speaker. GDCB Research Day, Iowa State University,
- Sep 2019 “Deciphering FERONIA Receptor Kinase: Functions and Mechanisms in *Arabidopsis*”. Invited speaker. PLPM departmental seminar, Iowa State University

2.3 Funding

- Mar 2021-Dec 2021 **Precise Genome Editing to Study FERONIA Receptor Kinase in Salt Tolerance in Maize.**
Crop Bioengineering Center (CBC) Seed Grant, Iowa State University
Role: PI (Co-PIs: Erik Vollbrecht, Bing Yang and Yanhai Yin)
Project Goals: The overall goal of this proposal is to study FERONIA-mediated salt stress tolerance in Maize by generating Maize FERONIA mutant using CRISPR/Cas9 and mutagenizing the phosphorylation sites of FERONIA substrates using precise genome editing.

3 Teaching Activities

3.1 List of Courses taught at Iowa State University

Semester	Title	Description	Effort	Credits	Enrollment
S2022	PLBIO 699	IPB Research Seminar	100%	1	23
	Gen 499	Undergraduate Research	100%	1	1
F2021	PLBIO 699	IPB Research Seminar	100%	1	23
	Gen 499	Undergraduate Research	100%	1	1
	Gen 409	Molecular Genetics	50%	3	40
S2021	Gen 499	Undergraduate Research	100%	1	1
	Gen 409	Molecular Genetics	50%	3	26
F2020	Gen 409	Molecular Genetics	50%	3	44
S2020	GDCB 511	Molecular Genetics	50%	3	29
F2019	Gen 409	Molecular Genetics	50%	3	35
F2017	Biol 313L	Principals of Genetics Lab	75%	1	48
F2014	Biol 330	Plant Physiology	100%	3	10
S2014	Biol 155 XW/Human Biology		100%	3	66
S2013	Biol 155 XW/Human Biology		100%	3	77
F2012	Biol 330/GDCB513	Plant Physiology/metabolism	50%	3	11
S2012	Biol 155 XW/Human Biology		100%	3	58
F2011	Biol 155 XW/Human Biology		100%	3	43
S2011	Biol 155 XW/Human Biology		100%	3	60
F2010	Biol 155 XW/Human Biology		100%	3	62
S2010	Biol 155 XW/Human Biology		100%	3	60

F2009	Biol 155 XW/Human Biology	100%	3	60
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3.2 Additional teaching activities

Fall 2004-present: Help supervise lab staff, undergraduate students, graduate students and postdoctoral fellows in Prof. Yanhai Yin's lab

Fall 2017: Guest lecturer of BCB/GDCB/ME 585

Fall 2016: Substitute lecturer of Biol 101-Introduction to Biology

2004-2008: TA instructor in Biol 313L

4 Mentoring Activities

4.1 Mentoring Undergraduate Students in the laboratory

Jan 2020-present	Olivia Whitham	Genetics Major
Aug 2021-May 2022	Kaila Savage	Genetics Major
Jan 2021-May 2022	Haley Dostalick	Biology Major/Bioinformatics Minor
Jan 2018-May 2019	Sean McLaughlin	Genetics Major
Jan 2017-May 2017	Rachel Powell	Genetics Major
2015-2016	Rebecca Schulte	Biology Major
2012-2014	Abigail Johnson	Biology Major

4.2 Co-Mentoring Graduate Students

Aug 2021-present	Jifu Han	Ph.D. Candidate, IPB
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4.3 Mentoring Graduate Students during Rotations

Aug 2022-Oct 2022	Letong Yin	Ph.D. Candidate, IG2
Aug 2021-Oct 2021	Saiful Islam	Ph.D. Candidate, IPB
Jan 2020-Mar 2020	Craig Cowling	Ph.D. Candidate, IPB
Oct 2019-Dec 2019	Kaitlin Higgins	Ph.D. Candidate, IG2/P3

Aug 2019-Oct 2019 Sean McLaughlin M.S. Candidate, IG2

Aug 2018-Oct 2018 Tanner Cook Ph.D. Candidate, IPB

4.4 Co-Mentoring Postdoctoral Fellows

Jan 2019-present Ping Wang

Nov 2020-present Kai Wang

July 2019-June 2020 Alfredo Kono

4.5 Mentoring Research Staff

July 2021-July 2022 Parker Bartz

4.6 Co-Mentoring High School Science Teachers

June 2021-July 2021 Todd Boender West Central Valley Middle School, Redfield, IA

June 2017-July 2017 Nick Smith Eagle Grove High School, Eagle Grove, IA

June 2014-July 2014 Brent Chambers Bellevue Community Schools, Bellevue, IA

June 2010-July 2010 Alicia Schiller Central Lee High School, Donnellson, IA

5 Academic Advising

Graduate Programs

Interdepartmental Plant Biology (IPB)

Interdepartmental Genetics and Genomics (IG2)

Molecular, Cellular and Developmental Biology (MCDB)

5.1 M.S. Program of Study Committees

Chair/Major Professor

Aug 2022-May 2025 Terryn Sears IG2 program

5.2 Ph.D. Program of Study Committees

Member of Program of Study Committee

Sep 2021-present	Ekkachai Khwanbua	Plant Pathology and Microbiology
April 2022-present	Allison Triebe	IG2

6 Service

6.1 Institutional Service

Jan 2022-present	Faculty advisor for the student-run Genetics Club
2020-present	Genetics, Development and Cell Biology Seminar Committee
Jan 2022-present	IPB graduate program Admission Committee
Jan 2022-present	IPB graduate program Curriculum Committee
May 2022-present	Faculty mentor for Graduate Student and Postdoc Organization (GSPO)
Jan 2020-May 2022	Organizer and host of the GDCB Graduate Student/Postdoc/Staff Seminar
Feb 2022	Candidate graduate student interview of IG2 program
Jan 2022	Faculty representative at orientation for International Students and Scholars Office (ISSO)
Feb 2021	Candidate graduate student interview of IPB program
Jan 2020	Judge for Three Minute Thesis (3MT) competition

6.2 Professional Service

2021-2022	Guest Editor for <i>Frontiers in Plant Sciences</i> , on an article collection of “Function and Mechanisms of Feronia Receptor Kinase”
2016-present	Manuscript Reviewers for Scientific Journals: <i>Cell Reports</i> (1); <i>Developmental Cell</i> (1); <i>New Phytologist</i> (1); <i>Plant Biotechnology Journal</i> (3); <i>Science Advances</i> (1); <i>Plant Physiology</i> (1); <i>Nature Plants</i> (1); <i>PLOS ONE</i> (2); <i>Frontiers in Plant Sciences</i> (1); <i>Plant Communications</i> (1); <i>aBiotech</i> (1); <i>BMC Biology</i> (1); <i>Current Biology</i> (1); <i>The Plant Cell</i> (2); <i>Molecular Plant-Microbe Interactions</i> (1); <i>PLOS Genetics</i> (2); <i>PNAS</i> (1); <i>Plant Cell Reports</i> (1)