David E. Cook

4004 Throckmorton Plant Sciences Center Department of Plant Pathology Kansas State University, Manhattan Kansas

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EDUCATION

August 2013	PhD. Department of Plant Pathology, University of Wisconsin-Madison
May 2008	MSc. Crop Soil Environmental Science, Virginia Tech
December 2005	BSc. Crop Soil Environmental Science, Virginia Tech, Cum Laude

PERSONAL FELLOWSHIPS and APPOINTMENTS

2022 – Current	Associate Professor, Department of Plant Pathology, Kansas State University, Manhattan Kansas
2022 – Current	Graduate Program Director, Department of Plant Pathology, Kansas State University, Manhattan Kansas
2017-2022	Assistant Professor, Department of Plant Pathology, Kansas State University, Manhattan Kansas
2014-2016	Postdoctoral Fellow , Human Frontiers in Science Program (HFSP), Laboratory of Phytopathology, Wageningen University, Netherlands
2014- 2014	Postdoctoral Fellow , European Molecular Biology Organization (EMBO), Laboratory of Phytopathology, Wageningen University, Netherlands
2013-2014	Postdoctoral Research Associate , Laboratory of Phytopathology, Wageningen University, Netherlands
2009-2013	PhD Fellow , American Phytopathological Society-Pioneer Graduate Fellowship in Plant Pathology, University of Wisconsin-Madison

PUBLICATIONS

*Contributed equally # Corresponding author

Lui S, Lin G, Ramachandran SR, Cruppe G, <u>Cook DE</u>, Pedley KF, Valent B. 2022. Rapid minichromosome divergence among fungal isolates causing wheat blast outbreaks in Bangladesh and Zambia. *Published on bioRxiv, https://doi.org/10.1101/2022.06.18.496690*

Huang J, Rowe D, Zhang W, Suelter T, Valent B, <u>Cook DE #</u>. 2022. CRISPR/Cas12a induced double-strand breaks are repaired by locus-dependent and error-prone pathways in a fungal pathogen. *Published on bioRxiv doi: https://doi.org/10.1101/2021.09.08.459484*.

Huang J, <u>Cook DE #</u>. 2022. The contribution of DNA repair pathways to genome editing and evolution in filamentous pathogens. **FEMS Reviews Microbiology**, fuac035, https://doi.org/10.1093/femsre/fuac035

PUBLICATIONS (continued)

Sia J*, Zhang W*, Jonckheere E, <u>Cook DE#</u>, Bogdan P#. 2022. Inferring functional communities from partially observed biological networks exploiting geometric topology and side information. **Scientific Reports**, 12, 10883. https://doi.org/10.1038/s41598-022-14631-x

Sharma VK, Marla S, Zheng WG, Mishra D, Huang J, Zhang W, Morris GP, and <u>DE Cook</u>#. 2022. RNA silencing by CRISPR in plants does not require Cas13. **Genome Biology** 23, 6 https://doi.org/10.1186/s13059-021-02586-7

Kramer M, Seidl MF, Thomma BPHJ#*, <u>Cook DE*</u>. 2022. Local rather than global H3K27me3 dynamics are associated with differential gene expression in *Verticillium dahliae*. **mBio**, 13, 1. https://doi.org/10.1128/mbio.03566-21

Huang J, <u>Cook DE#</u>. 2021. CRISPR-Cas12a ribonucleoprotein-mediated gene editing in a plant pathogenic fungus *Magnaporthe oryzae*. **STAR Protocols**, (3) 101072 https://doi.org/10.1016/j.xpro.2021.101072

Kramer M*, <u>Cook DE*</u>, van den Berg G, Seidl MF, Thomma BPHJ. 2021. DNA methylation in *Verticillium dahliae* requires only one of three putative DNA methyltransferases, yet is dispensable for growth, development and virulence. **Epigenetics & Chromatin** 14, 21. https://doi.org/10.1186/s13072-021-00396-6

Huang J, Zhang W, <u>Cook DE#</u>. 2021. Histone modification dynamics at H3K27 are associated with altered transcription of *in planta* induced genes in *Magnaporthe oryzae*. **PLoS Genetics**, 17(2):e1009376. https://doi.org/10.1371/journal.pgen.1009376

Sharma V, Zheng W, Huang J, and <u>DE Cook#</u>. 2021. CRISPR-Cas RNA targeting using transient Cas13a expression in *Nicotiana benthamiana*. In: Jin H., Kaloshian I. (eds) RNA Abundance Analysis. **Methods in Molecular Biology**, vol 2170. Humana, New York, NY. https://doi.org/10.1007/978-1-0716-0743-5 1

<u>Cook DE#</u>, Kramer M, Torres D, Seidl MF, Thomma BPHJ#. 2020. A unique chromatin profile defines adaptive genomic regions in a fungal plant pathogen. **eLife** 2020; 9:e62208 DOI: 10.7554/eLife.62208

Seidl MF, Kramer M, <u>Cook DE</u>, Fiorin G, van den Berg G, Faino L, and BPHJ Thomma. 2020. Repetitive elements contribute to the diversity and evolution of centromeres in the fungal genus *Verticillium*. **mBio**, 11 (5) e01714-20; DOI: 10.1128/mBio.01714-20

Weiland JJ, Poudel RS, Flobinus A, <u>Cook DE</u>, Secor GA, and MD Bolton. 2020. RNAseq analysis of Rhizomania-infected sugar beet provides the first genome sequence of beet necrotic yellow vein virus from the USA and identified a novel alphanecrovirus and putative satellite viruses. **Viruses** 12, 626; doi:10.3390/v12060626

PUBLICATIONS (continued)

Peng Z, Garcia-Oliveira E, Guifang L, Ying H, Dalby M, Migeon P, Tang Haibao, Farman M, <u>Cook DE</u>, White F, Valent B, Liu S. 2019. Effector gene reshuffling involves dispensable minichromosomes in the wheat blast fungus. **PLoS Genetics** 15(9):e1008272. https://doi.org/10.1371/ journal.pgen.1008272

Zhang W, Corwin JA, Copeland D, Feusier J, Eshbaugh R, <u>Cook DE</u>, Atwell S, Kliebenstein. 2019. Plant-Necrotroph co-transcriptome networks illuminate a metabolic battlefield. **eLife** 2019;8:e44279 DOI: 10.7554/eLife.44279

<u>Cook DE</u>*, Valle-Inclan JE*, Pajoro A, Rovenich H, Thomma BPHJ, Faino L. 2019. Long-Read Annotation (LoReAn): automated eukaryotic genome annotation based on long-read cDNA sequencing. **Plant Physiology** 179: 38-54 DOI: https://doi.org/10.1104/pp.18.00848

Thomma BPHJ and <u>Cook DE</u>. 2018. Targeting microbial pathogens. **Science** 360:1070-1071. DOI: 10.1126/science.aat9343

Lowe-Power TM, Hendrich CG, Roepenack-Lahaye E, Li B, Wu D, Mitra R, Dalsing B, Ricca P, Naidoo J, <u>Cook DE</u>, Jancewics, Masson P, Thomma B, Lahaye T, Michael AJ, Allen C. 2018. Metabolomics of tomato xylem sap during bacterial wilt reveals *Ralstonia solanacearum* produces abundant putrescine, a metabolite that accelerates wilt disease. **Environmental Microbiology**, 20 (4) 1330-1349. DOI: 10.1111/1462-2920.14020.

Seidl MF*, <u>Cook DE</u>*, Thomma BPHJ. 2016. Chromatin biology impacts adaptive evolution of filamentous plant pathogens. **PLoS Pathogens**, 12 (11) e1005920

Thomma BPHJ, Seidl MF, Shi-Kunne X, <u>Cook DE</u>, Bolton MD, van Kan JAL, Faino L. 2016. Mind the gap; seven reasons to close fragmented genome assemblies. **Fungal Genetics and Biology** (90): 24-30

<u>Cook DE</u>, Mesarich CH, Thomma BPHJ. 2015. Understanding plant immunity as a surveillance system to detect invasion. **Annual Review of Phytopathology** 53:25.1-25.23.

<u>Cook DE</u>, Bayless A, Wang K, Guo X, Jiang J, Bent AF. 2014. Distinct copy number, coding sequence and locus methylation patterns underlie *Rhg1*-mediated soybean resistance to soybean cyst nematode. **Plant Physiology** 165:630-647.

<u>Cook DE</u>*, TG Lee*, Guo X, Melito S, Wang K, Bayless A, Wang J, Hughes TJ, Willis DK, Clemente T, Diers BW, Jiang J, Hudson ME, Bent AF. 2012. Copy number variation of multiple genes at *Rhg1* mediates nematode resistant in soybean. **Science** 338:1206-1209.

Melito S, Heuberger A, <u>Cook DE</u>, Diers BW, MacGuidwin AE, Bent AF. 2010. A nematode demographics assay in transgenic roots reveals no significant impacts of the *Rhg1* locus LRR-Kinase on soybean cyst nematode resistance. **BMC Plant Biology** 10:104.

<u>Cook DE</u> and Rainey KM. 2010. Seed coat deficiency, trait stability, and other soybean seed quality traits for natto cultivar development. **Crop Science** 50:1244-1249.

PATENTS

Cook DE, Sharma V, Morris GP, Marla S. 2021. Guide-induced gene silencing. Provisional Patent Appl. No.: 63/174,832

Bent AF, Hudson M, Diers B, Melito S, Cook DE, Hughes T, Bayless A, Wang J, Lee TG, Guo X. 2020. Rhg1 mediated resistance to soybean cyst nematode. US Patent 10808260.

GRANT FUNDING (Awarded)

- 2022-2024 Seedling Grant, Defense Advanced Research Projects Agency (DARPA). PI with Co-PI Dr. Paul Bogdan (USC). *Engineering novel plant receptors*.
- 2021-2025 National Science Foundation and United States Department of Agriculture, National Institute of Food and Agriculture. Co-PI with PI Dr. Liu, Co-PIs Dr. Valent and Dr. Koo. *Dynamic mini-chromosomes: mechanisms of exchange, stability and causation of fungal pathogen adaptation.*
- 2019-2022 National Science Foundation- Molecular and Cellular Biosciences. Models for Uncovering Rules and Unexpected Phenomena in Biological Systems (MODULUS), PI with Co-PI Dr. Paul Bogdan. *A Novel Spatiotemporal Multifractal Analysis to Evaluate Genome Dynamics*.
- 2019-2020 Young Faculty Award (YFA), Directors Fellowship, Defense Advanced Research Projects Agency (DARPA), Sole PI. *Transcriptome engineering for enhanced agronomic defense, response and performance.*
- 2019-2022 United States Department of Agriculture, Education and Workforce Development REEU, Co-Project Director. *Pathways to plant health through integrated, FACT-driven research and extension internships.*
- 2018-2021 United States Department of Agriculture, National Institute of Food and Agriculture (USDA-NIFA), Plant-Biotic Interactions program (PBI). Sole PI. Deciphering the control network and genome dynamics during fungal plant pathogenesis.
- 2018-2021 Joint Genome Institute (JGI), Community Science Program New Investigator Project. Services provided at no cost. Sole PI. *Enabling RNA-targeting CRISPR in* grass species for functional genomics and agronomic improvement.
- 2017-2019 Young Faculty Award (YFA) awarded by the Defense Advanced Research Projects Agency (DARPA), Sole PI. *Transcriptome engineering for enhanced agronomic defense, response and performance.*

HONORS AND AWARDS

- 2019 Directors Fellowship, Young Faculty Award, Defense Advanced Research Projects Agency
 2016 International Congress on Molecular Plant-Microbe Interactions Travel Awardee
 2015 Keystone Travel Scholarship to attend symposia on DNA methylation
 2014 Human Frontier Science Program (HFSP) Postdoctoral Fellowship, award number
- 2014 Human Frontier Science Program (HFSP) Postdoctoral Fellowship, award number LT000627/2014-L. Three years of funding.

2013	European Molecular Biology Organization (EMBO) Postdoctoral Fellowship, award number ALTF 969-2013. Two years of funding.
2012	Poster awarded overall first place at conference- Molecular and cellular biology of Soybean.
2009	American Phytopathological Society-Pioneer Graduate Fellowship in Plant Pathology. Four years funding for PhD.
2011	August M. Gorenz Scholarship, UW-Madison

DEPARTMENTAL SERVICE

2022-current	Graduate Program Director, Department of Plant Pathology, KSU
2022	Postdoc hiring committee for Assist. Professor Shahideh Nouri, KSU Department of Plant Pathology
2021	Postdoc hiring committee for Assist. Professor Shahideh Nouri, KSU Department of Plant Pathology
2019	Postdoc hiring committee for Assoc. Professor Geoff Morris, KSU Department of Agronomy
2018-current	Department Committee On Planning, KSU Plant Pathology
2018-2019	Invited speakers and organized departmental seminar series for Fall 2018 and Spring 2019
2018	Interim Department Head Search Committee, KSU Plant Pathology
2018	USDA Supercontainment facility policy committee, KSU Plant Pathology
2017- 2022	Graduate Student Screening Committee, KSU Plant Pathology
2017	Virology Faculty Search Committee, KSU Plant Pathology

CONFERENCE PRESENTATIONS and INVITED TALKS

- 2022 12th Japan-US Seminar on Plant Pathology, Cornel University. (Invited, Oral)
- 2022 NSF workshop on Models for Uncovering rules and unexpected phenomena in biological systems, George Mason University. (Invited, Oral)
- 2022 Oklahoma State University, Department of Entomology and Plant Pathology seminar series. (Invited, Oral)
- 2022 Concurrent session co-chair, Chromatin, heterochromatin and Epigenetics, 31st Fungal Genetics Conference.
- 2021 Colorado State University, Soil and Crop Science Department seminar series (*virtual*). (Invited, Oral)
- 2021 University of Missouri- Kansas City (UMKC), School of Biological and Chemical Sciences seminar series (*virtual*). (Invited, Oral)

CONFERENCE PRESENTATIONS and INVITED TALKS (*continued***)**

2020	DARPA Insect Allies Technical Interchange Meeting, Arlington Virginia.
	(Invited, Oral)
2019	DARPA Young Faculty Award kick-off, Arlington Virginia. (Invited, Poster)
2019	USDA North Dakota State, Unit Seminar Series. (Invited, Oral)
2019	Molecular Plant-Microbe Interactions International Congress. Glasgow, Scotland.
	(Invited, Oral)
2018	Kansas State University, Department of Biochemistry and Molecular Biophysics seminar series. (Invited, Oral)
2018	Young Investigators Panel, K-State University. (Invited, Oral)
2018	DARPA Young Faculty Award kick-off, Arlington Virginia. (Invited, Poster)
2018	Lawrence Livermore National Labs (LLNL), DARPA YFA site visit. (Oral)
2018	University of Nebraska-Lincoln Department of Plant Pathology, seminar series (Invited, Oral)
2018	DARPA Insect Allies Technical Interchange Meeting, Austin Texas. (Invited, Oral)
2017	Young Investigators Panel, K-State University. (Invited, Oral)
2017	University of Arkansas Department of Plant Pathology, seminar series. (Invited, Oral)
2017	DARPA Young Faculty Award kick-off, Arlington Virginia. (Invited, Poster)
2017	Kansas Louis Stokes Alliance for Minority Participation, K-State University.
	(Invited, Oral)
2017	Ecological Genomics Summer Research Forum, K-State University. (Invited, Oral)
2017	29th Fungal Genetics Conference, Asilomar California. (Poster)
2016	Molecular Plant-Microbe Interactions International Congress. Portland, Oregon.
	(Invited, Oral)
2016	Chromatin Dynamics, Ludwig Maximilian University. Munich, Germany.
2015	Keystone Symposium: DNA Methylation. Keystone CO. Selected for travel award (Poster)
2014	ALW Molecular Genetics Annual Meeting. Lunteren, The Netherlands. (Selected, Oral Presentation)
2014	Molecular Plant-Microbe Interactions International Congress. Rhodes, Greece. (Poster)
2013	Keystone Symposium: Plant Immunity: Pathways and Translation. (Selected, Oral)
2012	Molecular and Cellular Biology of the Soybean, Ames IA. <i>awarded overall 1st place</i> . (Poster)
2012	American Phytopathologic Society Annual Meeting, Providence RI. (Poster)
2010	American Phytopathologic Society Annual Meeting, Charlotte NC. (Poster)
2009	Molecular Plant-Microbe Interactions International Congress. Quebec, Canada. (Poster)

LAB MEMBER PRESENTATIONS (presenting author is underlined)

<u>Huang J</u>, Rowe D, Zhang W, Suelter T, Valent B, Cook DE. Repair of CRISPR-Cas12a induced DNA double-strand breaks in *Magnaporthe oryzae* generates locus-dependent mutation profiles. 3rd Magnafest, Asilomar CA, March, 2022. (Oral)

<u>Zhang W.</u> Leveraging omics to ask and answer big biological questions. University of California-Riverside. December, 2021 (Invited Job Talk).

<u>Zhang W</u>, Sia J, Cook DE, Bogdan P. Leveraging community detection from network science to identify the cell's functional organization in biological networks. Plant Biology, virtual meeting, July, 2021. (Poster)

<u>Marla, S</u>. Leveraging genetic, genomic, and gene-editing tools for improving Montana cereal crops. Montana State University. October, 2021 (Invited Job Talk).

<u>Zhang W</u>, Sia J, Cook DE, Bogdan P. Leveraging community detection from network science to identify the cell's functional organization in biological networks. International Plant Systems Biology Workshop, virtual meeting, April, 2021. (Poster)

Huang J, Rowe D, Zhang W, Suelter T, Valent B, Cook DE. CRISPR-Cas12a induced DNA double-strand breaks are repaired by locus-dependent and error-prone pathways in a fungal pathogen. The Joint CanFunNet and Great Lakes Mycology Conference, virtual meeting, May, 2021. (Oral)

Zhang W, Huang J, Cook DE, Epigenetic regulation of effector gene expression in a fungal plant pathogen. Plant Biology World Summit, virtual conference, July, 2020. (Oral)

<u>Sharma V</u>, Zheng W, Huang J, Zhang W, Cook DE. Engineering RNA virus resistance using type VI CRISPR-Cas system. 38th Annual American Society of Plant Virology meeting, Minneapolis, Minnesota, July 2019. (Poster)

<u>Zhang W</u>, Huang J, Cook DE, Investigation of Epigenetic Control of *Magnaporthe oryzae* Gene Expression by ChIP-Seq and RNA-Seq. 30th Fungal Genetics Conference. Pacific Grove, California, March 2019. (Poster)

<u>Huang J</u>, Zhang W, Cook DE. Investigating the role of histone modification dynamics on H3K27 for regulating effector gene expression in *Magnaporthe oryzae*. 30th Fungal Genetics Conference. Pacific Grove, California, March 2019. (Poster)

<u>Sharma V</u>, Zheng W, Huang J, Cook DE. CRISPR-Cas mediated RNA modulation for improved plant defense. International Congress of Plant Pathology and American Phytopathologic Society combined meeting. Boston, Massachusetts, August 2018. (Poster)

ADVISING, TEACHING, ACTIVITIES

Graduate and Postdoc Advising

2022	Advisor- Postdoc, Dr. Jun Huang, Kansas State University
2021-2022	Major Advisor- PhD, Pratima Subedi, Kansas State University, Plant Pathology
2021-current	Committee Member- PhD, Heather Forster, Kansas State University,
	Interdepartmental Genetics
2021-current	Committee Member- PhD, Tyler Suelter, Kansas State University, Plant Pathology

2020-current	Major Advisor- PhD, David Rowe, Kansas State University, Interdepartmental Genetics
2020-2022	Advisor- Postdoc, Dr. Divya Mishra, Kansas State University
2019-2021	Advisor- Postdoc, Dr. Sandeep Marla, Kansas State University
2019-2022	Co-Major Advisor- MSc, Joseph Fenoglia, Kansas State University, Plant Pathology
2018-2021	Committee Member- MSc, Carla Bianca Redila, Kansas State University, Plant Pathology
2018-2020	Committee Member- MSc, Bliss Betzen, Kansas State University, Plant Pathology
2018- current	Committee Member- PhD, Afsana Noor, Kansas State University, Plant Pathology
2018-2019	Advisor- Postdoc, Dr. Wenguang Zheng, Kansas State University
2017-2021	Advisor- Postdoc, Dr. Veerendra Sharma, Kansas State University
2017-2022	Advisor- Postdoc, Dr. Wei Zhang, Kansas State University
2017-2022	Major Advisor- PhD, Jun Huang, Kansas State University, Plant Pathology
2017-2022	Committee Member- PhD, Joel Steyer, Kansas State University, Plant Pathology
2016-2022	Supervision- PhD. Martin Kramer, Wageningen University
2015	Supervision- MSc. Minor thesis, 8 months- Martin Kramer, Wageningen Univ.
Undergraduate A	Advising
2022	REEU Mentor- Tom MaCanany, Kansas State University, Biology Department
2020-2021	Mentor- Developing Scholars Program, Kaitilyn Headlee, Kansas State University, BSc., Freshman.
2019-2020	Mentor- Undergraduate Research, Nathan Ryan, Kansas State University,
	BSc. Agronomy
2018-2019	Mentor- Undergraduate Research, Shumin Li, Kansas State University, BSc. Animal Science
2018-2019	Mentor- Undergraduate Research, Brett Plemons, Kansas State University, BSc. Agronomy, Plant Pathology minor
2018	Mentor- Undergraduate Research, Mary Markland, Kansas State University, BSc. Animal Science
2015	Supervision- BSc. Major thesis, 8 months- Ron Boon, InHolland Univ.
2015	Supervision- BSc. Minor thesis, 6 months- Marloes van Dyke, Fontys Univ.
2015	Supervision- BSc. Major thesis, 4 months- Kyra Broeders, Wagenignen Univ.
2012-2013	Supervision- BSc. Biochemistry student, Amy Yan, UW-Madison
2011	Supervision- BSc. Plant pathology student, Michael Gardner, UW-Madison
2010	Supervision- BSc. Plant pathology student, Christina Brooks, UW-Madison
<u>Teaching</u>	
2021 (Fall)	PPATH-910 Molecular Plant-Microbe Interactions, Kansas State University
2021 (Spring)	PPATH-870 Thesis Proposal Seminar, Kansas State University
2020 (Spring)	PPATH-870 Thesis Proposal Seminar, Kansas State University
	David E. Cook, Curriculum Vitae 8

2019 (Fall)	PPATH-910 Molecular Plant-Microbe Interactions, Kansas State University
2019 (Smr)	PPATH-815 IGF Workshop, Guest Lecture, Kansas State University
2019 (Spring)	PPATH-870 Thesis Proposal Seminar, Kansas State University
2018 (Spring)	PPATH-870 Thesis Proposal Seminar, Kansas State University
2017	Fusarium Laboratory Workshop, Guest Lecture, Kansas State University
2015	Lecture- Bacterial pathogens and plant-microbe interaction basics, Wageningen University
2015	Teaching Assistant- Lab practical: Principles of Plant Pathology, Wageningen University
2012	Lecture- Plant pathogenic nematodes and emerging diseases, UW-Madison
2011	Teaching Assistant- Lab practical: Plants, Parasites and People, UW-Madison
Activities	
2021	University non-discrimination training
2018	STEM Night at Marlatt Elementary, Co-Lead organizer for science night at local elementary school
2018	Girls Researching Our World (GROW), Weekend Workshop on what CRISPR-Cas is and why it is important. Kansas State University
2017	STEM Night at Marlatt Elementary, Co-Lead organizer for science night at local elementary school
2016	HFP-consulting, Leadership and Management Skills Course. Heidelburg, Germany.
2012	Wisconsin Entrepreneurial Bootcamp, UW-Madison Business School
2010	Chair- Plant Pathology Graduate Student Colloquium, UW-Madison
2003-2005	Student Athlete Advisory Committee (SAAC), Mens track representative, Va.Tech

GRANT REVIEWS

- 2022 National Science Foundation, MCB-Systems and Synthetic Biology (panel member)
- 2022 United States Department of Agriculture, National Institute of Food and Agriculture- Centers for Excellence (panel member)
- 2021 National Science Foundation, MCB-Systems and Synthetic Biology (Ad-hoc)
- 2020 United States Department of Agriculture, National Institute of Food and Agriculture- Agricultural Innovation through Gene Editing (panel member)
- 2019 United States Department of Agriculture, National Institute of Food and Agriculture- Agricultural Innovation through Gene Editing (panel member)
- 2019 National Science Foundation, IOS- Plant Biotic Interactions (Ad-hoc)
- 2017 National Science Foundation, IOS- Plant Genome Research Project (Ad-hoc)
- 2017 Kentucky Science and Engineering Foundation, Biosciences review (Ad-hoc)

JOURNAL PEER-REVIEW SERVICE

2021-current Associate Editor, Phytopathology

Service as peer reviewer:

BMC Plant Biology, DNA Repair, FEMS Microbiology Review, Fungal Genetics and Biology, G3, Journal of Integrative Plant Biology, mBio, Microbial Genomics, Molecular Biology and Evolution, Molecular Plant-Microbe Interactions, Molecular Plant Pathology, Nature Communications, New Phytologist, Phytopathology, Plant Cell, Plant Physiology, PLoS Genetics, PLoS One, PLoS Pathogens, Science Advances

PROFESSIONAL MEMBERSHIP

- 2016 Genetics Society of America (GSA)
- 2010 American Phytopathologic Society (APS)
- 2009 International Society for Molecular Plant-Microbe Interactions (IS-MPMI)