

S. Patricia Stock, Ph. D.
CURRICULUM VITAE

EDUCATION BACKGROUND

- 1985 • B.S., Biology (Major: Zoology). National University of La Plata, College of Natural Sciences and Museum Studies, La Plata, Argentina.
- 1991 • Teaching Credential for Higher Education. National University of La Plata, College of Natural Sciences and Museum Studies, La Plata, Argentina.
- 1992 • Ph.D. in Natural Sciences (with honors). National University of La Plata, College of Natural Sciences and Museum Studies, La Plata, Argentina. Minor: Parasitology. Dissertation: *Entomophilic and Entomopathogenic Nematodes of Coleopteran Pests from the Pampean Region*.
- 1996-1998 • Postdoctoral Research Associate, Department Nematology, University of California, Davis, California.

AREAS OF EXPERTISE

Parasitology, Nematology, Microbial Symbiosis, Invertebrate Pathology

PROFESSIONAL EXPERIENCE

Leadership Appointments

2021-2023 • Dean, College of Agriculture, California State University Chico, California.

Duties and Responsibilities

I serve at will and pleasure of the President. In my role I am expected to maintain and deepen the College's rich tradition of practical, hands-on education and expand research opportunities. I oversee the organizational and fiscal health of the College while partnering closely with faculty, students, industry, and the local agricultural community to envision an innovative future for the College. Expected opportunities and challenge in this role are:

- *Develop a vision and strategic plan that builds upon the College's many strengths and unites the College around a shared purpose and direction.*
- *Grow innovative academic programs to ensure students' academic and professional success,*
- *Provide strong organizational leadership and cohesion and further develop and support staff,*
- *Provide strong fiscal management and grow additional resources; and*
- *Serve as an ambassador and champion for the College and enhance visibility and reach across the University, region, the state, and beyond.*

Key Accomplishments

- *New 5-year strategic plan (2022-2027): I initiated and guided to completion the new strategic plan. The plan was built as a team project where faculty, staff, students, and stakeholders participated and provided input and was launched in the fall 2022 after 1 year in Dean's role.*
- *Governor's Office State allocation of Funds for CSU Farm improvements: I had an active role in securing funding from Governor Newsom's office to support renovations of University Farm. I developed the proposal that CSU Chico President presented together with three other CSU Presidents presented to State legislation. The proposal included a summary of the state of the farm and the need for renovations and improvements. I also identified key priorities and budget.*
- *Infrastructure: Under my leadership two major infrastructure projects have been initiated, including the Agricultural Learning and Training Center (supported with Governor's State Budget) [Under development], and the Honeybee Discovery Center (HDC): I have been the key player in bringing the HDC to Chico State together to discuss and consider an agreement that will enable the construction of the HDC at the University Farm. The HDC will bring visibility and opportunities to campus, the community, and the North state.*

• Enabling the next generation of Agricultural leaders: Under my leadership, several programs have been created and launched to promote student engagement, retention, and success. Most relevant are 1) AGtivate' program: Under my leadership, an engagement program for incoming students was created to provide a sense of belonging and to give students knowledge and access to resources to set them up for success. 2) G Ambassadors: I created the 'Dean's Circle' where student Circle members play a key role in the planning of and participating in activities related to enhancing the visibility of the College and recruitment efforts. 3) Conversations with the Dean: In AY22-23, I hosted "Brown Bag Lunch" and "Donuts with the Dean" events each semester to meet with students and listen to their needs and concerns and retrieve feedback.

• New Scholarship Opportunities: Beginning in AY23-24, I added 4 new Bell Family Presidential Scholarships which is the highest scholarship on campus. My interactions with the donor led to additional support for scholarships to transfer students to cover their full tuition for two years.

• Promoting climate smart, resilient, and regenerative agricultural systems: Under my leadership the North Valley Food Hub for Climate-Smart Agriculture was established at CSU Chico through ~\$5M (2023-2027.) USDA-NIFA grant and collaborations between college faculty and the Center for Regenerative Agriculture & Resilient Systems (CRARS). Another recent accomplishment is the \$750,000 award from USDA-NIFA, Capacity Building Grants for Non-Land Grant Colleges of Agriculture to expand the curriculum and establish climate smart courses. I am the lead principal investigator on this award.

I created, supported, and launched this first-ever event on Precision Ag Day at the Farm last fall 2022, to bring new technologies including AI, robotics and others for a demonstration day targeting students and members of our community at the Farm. This event will continue in AY 23-24.

I established a collaboration/agreement with Phytech (<https://www.phytech.com/home>) to donate their technology and install water sensors in our almond orchards as a demonstration sites and data collection for plant health and water to educate students and local farmers.

• Expansion of research and instructional collaborations with foreign countries: I have initiated two MOA with Chile, one with the National Institute of Agricultural Research (INIA) Chile: I travelled to Chile and visited INIA and brought an MOA to enable research and education opportunities and collaborations. The second one is with Universidad Catolica Temuco, Chile: During my trip to Chile in Fall 22, I visited this institution for faculty and student exchange- This institution is very similar in structure to CSU Chico and has a strong agricultural program [In progress].

• Ambassador of the College: Member of the California Department of Food and Agriculture (CDE) Advisory Board and CA Governor G. Newsom. In this role I represent the California State University System and have been an active member of two subcommittees "AG Vision" and "Regenerative Agriculture" that are part of the CDE's new 10-year strategic plan "Ag Vision".

2019-2021 • Director, School Animal and Comparative Biomedical Sciences (ACBS), University of Arizona, Tucson, Arizona.

2018-2019 • Interim Director, School Animal and Comparative Biomedical Sciences, University of Arizona, Tucson, Arizona.

Duties and Responsibilities

I directly reported to the Dean of the College of Agriculture and Life Sciences. I oversaw over 140 employees (including 33 faculty, 67 staff, and 44 student workers) and manage a \$6 million budget.

• Delegated authority, responsibility, and accountability to lead and manage the School Animal and Comparative Biomedical Sciences to success and prominence in the three mission areas.

• Work closely with the three mission directors to align the School's strategic plan, outputs, and outcomes to that of the University of Arizona. Delegated authority, responsibility, and accountability for the School's business and financial management excellence.

• Work closely with the College Alumni and Development office and Dean of the College on philanthropy, alumni affairs, and corporate relations to increase philanthropy and non-agency-funding for the School.

• Grow relationships with all state's industries that relate to the School's scope.

Key Accomplishments

- *Oversaw the following facilities: Equine Center, Food Products and Safety Laboratory, Agricultural Research Center and Aqua-Pathology Laboratory.*
- *Administered four undergraduate (Microbiology, Animal Science, Veterinary Science, Food Safety) and two graduate programs (Microbiology and Animal and Comparative Biomedical Sciences).*
- *Developed a new 5-year Strategic Plan.*
- *Hired ten new faculty members. More than half of them are women or belong to underrepresented minority groups.*
- *Hired one professional academic advisor for the Veterinary Science program.*
- *Hired a new Manager of Finance and Administration.*
- *Successfully negotiated the retention of three faculty members who are key players in the School's mission*
- *Appointed an Associate Director for Academic Programs to strengthen the School's undergraduate and graduate programs.*
- *Appointed two new Directors for Graduate Programs.*
- *Established a new undergraduate program in Applied Biotechnology, shared with two other units in the College.*
- *Established a minor in Food Safety program.*
- *Established a Research Experience for Undergraduates (REU) Site summer program funded by the National Science Foundation.*
- *Appointed two task teams to restructure two undergraduate programs: Microbiology and Animal Science.*
- *Allocate funds for recruitment and advising activities.*
- *Allocate funds to support activities of undergraduate clubs.*
- *Established award and recognition events for faculty, staff, and students.*
- *Maintain a close relationship with Arizona stakeholders in the beef and dairy industry, produce and food safety*

2016-2019 • Faculty Fellow for Special Initiatives, The Graduate College, University of Arizona, Tucson, Arizona.

Duties and Responsibilities

Worked with the Executive Team of the Graduate College Dean and the Graduate Center to develop initiatives to enhance graduate education and expand resources for graduates at the University of Arizona.

Key Accomplishments

- *Lead various initiatives including the development of workshops and training for faculty mentors and graduate students. Topics covered, among others, were Time to Degree, Faculty-Student Mentoring, Difficult Conversations, and Training of Teaching Assistants.*
- *Coordinated grant program and developed a RFA to fund units across the University of Arizona campus to develop initiatives focused on reducing time to degree.*

2011-2016 • Director, NSF-funded Research Coordination Network on Nematode Bacteria Symbiosis

Duties and Responsibilities

Lead and establish an international network to bridge the gap of knowledge in the research field of Nematode-bacteria Symbiosis.

Key Accomplishments

- *Successfully established NEMASYM-RCN, a research coordination network with focus on nematode-bacteria symbiosis that was funded by the National Science Foundation (NSF) for six consecutive years.*
- *Planned and organized 6 annual meetings, many in collaborations with various professional societies.*
- *Brought together over 200 scientists from 30 countries around the world, with varied backgrounds and stages in their careers to collaborate in teaching, research, and outreach activities in the field of nematode-bacteria symbiosis.*
- *Managed network's annual budget for the organization of annual meetings, training workshops*
- *Established internships for students and early career scientists*
- *Provided annual reports to the National Science Foundation*

Faculty Appointments

- 2021- present • Emerita Professor, School of Animal and Comparative Biomedical Sciences, University of Arizona, Tucson, Arizona.
- 2013-2021 • Professor, School of Animal and Comparative Biomedical Sciences, University of Arizona, Tucson, Arizona.
- 2011-present • Professor, Department of Entomology, University of Arizona, Tucson, Arizona
- 2008-2011 • Associate Professor, Department of Entomology, University of Arizona, Tucson, Arizona.
- 2005-2008 • Assistant Professor, Department of Entomology, University of Arizona, Tucson, Arizona.
- 2003- 2005 • Adjunct Assistant Research Professor, Department of Entomology, University of Arizona, Tucson, Arizona.
- 2001-2005 • Assistant Research Professor, Division of Plant Pathology and Microbiology, Department of Plant Sciences, University of Arizona, Tucson, Arizona.
- 1998-2001 • Assistant Curator (Senior Museum Scientist), Department of Nematology, University of California, Davis, California.
- 1992-1993 • Instructor, Department of Zoology, National University of La Plata, La Plata, Argentina.

Duties and Responsibilities

To conduct research in insect pathology, to participate fully and with distinction in graduate and undergraduate education, and to perform advising duties and participate in committee assignments. Teach undergraduate and/or graduate courses (total 4 credits) in biology or entomology yearly. Maintain professional competence and contribute expertise to relevant professional activities. Serve on committees at the departmental, college and/or university level.

Key Accomplishments

•Research: Developed and internationally recognized research program in insect pathology and microbial symbiosis. Received funding from external (federal, state, and private sources) and internal (competitive university funds). Trained undergraduate and undergraduate students as well as postdoctoral fellows and visiting scientists from around the world. Published in peer review articles, contributed to book chapters, and coedited two books.

•Instruction: Developed and taught courses at the undergraduate and graduate levels; as well as short courses for the training to scientists at the national and international levels. Created two educational videos. Participated in community outreach activities.

•Service: Served on committees at the intramural (unit, college, and university) and extramural (various scientific societies, community) levels. Organized scientific symposia, oral presentation, and poster sessions. Mentored high school students and middle school teachers. Participated in community outreach activities.

Non-Academic Appointments

- 1988-1990 • Agriculture Extension Associate, Division of Agricultural Education, Ministry of Education and Culture of the Province of Buenos Aires, La Plata, Argentina.

Duties and Responsibilities

To serve the citizens of the province of Buenos Aires as an expert or teacher on topics related to agriculture, animal production and welfare and human wellbeing.

Key Accomplishments

- Created brochures and other educational materials for farmers, students, and educators (K-12)*
- Provided and training advise to ranchers and farmers train him in the safe application of pesticides, and alternatives to pest management.*

AWARDS AND HONORS (most relevant)

Awards

- 2018 • Founders Lecturer Award, Society for Invertebrate Pathology. [*Highest honor conferred to a scientist for outstanding contributions in the field of Insect Pathology by this international Society*].
- 2014 • David E. Cox Faculty Teaching Award (for unusual dedication and outstanding performance in teaching), College of Agriculture and Life Sciences, University of Arizona.
- 2013 • Shirley O'Brien Diversity Award (for outstanding achievements in promoting diversity within the College), College of Agriculture and Life Sciences, University of Arizona.
- 2010 • Effective Leadership and Guidance Award, Organization of Nematologists of Tropical America
- 2009, 2010 • Honorary mention for 'Outstanding Faculty Mentor', Undergraduate Biology Research Program, University of Arizona
- 2006 • Fulbright Scholar, Senior Specialist Program, The Fulbright Foundation, Universidad Nacional del Litoral, Esperanza Argentina

Honors

- 2023 • Founding Member, Visionary Steering Council, World Bioprotection Forum, Swansea, United Kingdom
- 2022-2024 • Elected President, Society for Invertebrate Pathology
- 2022-present • Member, California Food and Agriculture Department (CDFA) Advisory Board. [*Nominated by CDFCA Secretary and appointed by the Governor of California*]
- 2022-present • Advisory Board, World Bioprotection Forum (WBF), Swansea, United Kingdom [*This is a non-profit organization that fosters collaboration between the biocontrol industry and academia in the AgriTech sector and connects stakeholders, to ensure the successful development and commercialization of biocontrol products*].
- 2020-2022 • Elected Vice President, Society for Invertebrate Pathology
- 2017 • Faculty Fellow, Battle of Little Big Horn Leadership Program, Billings MT, USA. Nominated by the College of Agriculture and Life Sciences (CALs), University of Arizona
- 2016-2020 • Elected Secretary/ Treasurer, Nematode Division, Society for Invertebrate Pathology.
- 2015-2018 • Elected Vice President (Education), International Symbiosis Society.
- 2012-2014 • Elected Secretary, Executive Council, Society for Invertebrate Pathology
- 2011-2012 • Fellow, Academic Leadership Institute, University of Arizona.
- 2009-2010 • Elected President, Organization of Nematologists of Tropical America
- 2008-2009 • Elected Vice President, Organization of Nematologists of Tropical America

MEMBERSHIP IN PROFESSIONAL SOCIETIES

- 1993- present • Society of Nematologists
- 1994-present • Society for Invertebrate Pathology
- 2005-2018 • Entomological Society of America
- 2003-present • Organization of Nematologists of Tropical America
- 2009-present • International Symbiosis Society

PROFESSIONAL DEVELOPMENT IN ADMINISTRATIVE LEADERSHIP

- 2011-2012 • Academic Leadership Institute, University of Arizona, Tucson, AZ.

Fellows are nominated by the College in recognition of their leader potential. Nominated by Gene Sanders, former Dean of the College of Agriculture and Life Sciences at the University of Arizona and joined the second cohort of leaders in 2012. One of the 23 fellows of the 2011-2012 cohort.

This program covered broad topics of institutional leadership, with emphasis on personality assessments and development of personal leadership style, conducting crucial conversations, team building and creating a collaborative culture.

- 2017 • Battle of the Little Big Horn Leadership Program in Billings, MT.

Nominated by the Dean of the Graduate College at the University of Arizona to participate in the Battle of the Little Big Horn Leadership Program in Billings, MT. This program focused on rapid decision-making under intense pressure in the face of unexpected circumstances and examined aspects of leadership that affect the ultimate success of the mission.

- 2019 • Wright Brothers Leadership Program in the Outer Banks, NC.

Attendance to this Program was sponsored by the Division of Agriculture, Life Science Veterinary Medicine and Cooperative Extension at the University of Arizona. This 2-day training centered on the importance of the work environment and the fostering of curiosity, experimentation, and innovation as well as on reevaluation of data and rethinking strategies.

- 2020 • Advanced Development for Deans and Academic Leaders. Phoenix, AZ.

This 2-days training program was organized by the Council for Advancement and Support of Education. It focused on preparing academic leaders for the changing landscape of advancement.

PROFESSIONAL SERVICE (past 10 years)

Intramural (most relevant)

- 2021-2023 • Member of the Provost Advisory Council, California State University Chico
- 2020 • Member, Search Committee for the Director of the Southern Arizona Experimental Station, College of agriculture and Life Sciences, University of Arizona.
- 2019 • Chair, Five-Year review for the Head of the Department of Environmental Sciences, University of Arizona.
- 2017-2019 • Senator at-large, Faculty Senate, University of Arizona.
- 2017-2020 • Member, University Committee on Ethics and Commitment, University of Arizona.
- Member, Strategic Priorities Faculty Initiatives (SPFI) Committee, University of Arizona
- 2015-2018 • Member, Faculty Council, College of Agriculture and Life Sciences (CALs), University of Arizona.
- 2013-2016 • Member, Committee on Academic Freedom and Tenure, University of Arizona.
- 2012 • Member, Visioning Committee, College of Agriculture and Life Sciences, University of Arizona.
- Interim Chair, Post Tenure Audit Committee, College of Agriculture and Life Sciences, University of Arizona.

Extramural (most relevant)

- 2022-2024 • Chair Executive Council, Society for Invertebrate Pathology, USA
- 2018-2021 • Chair Awards and Student Contest Committee, Society of Invertebrate Pathology, USA
- 2018-2020 • Vice Chair, Nematode Division, Society of Invertebrate Pathology, USA
- 2016-2018 • Secretary/Treasurer, Nematode Division, Society of Invertebrate Pathology, USA
- 2012-2014 • Member, Nematode Division, Society of Nematologists, USA
- 2008-present • Faculty Advisor, Graduate Student and Postdoctoral Affairs Committee, Society for Invertebrate Pathology, USA

Grant panelist and ad-hoc reviewer (past 10 years)

- Panelist, National Science Foundation. Various programs including Symbiosis and Self-Defense Mechanisms, Biology and Biodiversity Inventories, Systematics, Doctoral Dissertation Improvement, Biotic Surveys, and Inventories

- Panelist, USDA, NIFA, Plant-Associated Insects and Nematodes Program
- Ad hoc Reviewer, National Science Foundation. Various programs including Symbiosis, Defense and Self Recognition (SDS), EDGE: Enabling Discovery through Genomic Tools, Symbiosis, Defense and Self-Recognition (SDS), Organismal Systems, Population and Community Ecology, Revisionary Syntheses in Systematics (REVSYS), Arthropod and Nematode Gateway to Genomics
- Ad hoc Reviewer, USDA-T-STAR Program
- Ad hoc Reviewer, U.S. Civilian Research and Development Foundation Research Councils United Kingdom (RCUK)
- Ad hoc Reviewer, United States-Israel Bi-National Agricultural and Development Fund
- Ad hoc Reviewer, FONACYT Ministerio de Ciencia, Tecnología e Innovación Productiva, Argentina
- Ad hoc Reviewer, Facultad de Ciencias Naturales y Museo Grant Program, Universidad Nacional de La Plata, Argentina

Editorial service

- 2015-present • Associate Editor, Journal of Invertebrate Pathology
2014-2016 • Associate Editor, Nematropica
2013-2015 • Associate Editor, Insect Science Journal
2007-present • International Editorial Board Member, Biocontrol Science and Technology Journal
2002-2006 • Associate Editor, Journal of Nematology, Society of Nematologists
1997-2012 • Editorial Board Member, Nematologia Mediterranea

Journal and Book Reviews (past 10 years)

African Journal of Microbiology, Applied and Environmental Microbiology, Biocontrol, Biologia, Biological Control, Biological Control Science and Technology, Cladistics, Comparative Parasitology, Evolution, FEMS Microbiology, Insects, Insect Science, International Journal of Biological Control, International Society for Microbial Ecology Journal, JBio, Journal of Applied Microbiology, Journal of Economic Entomology, Journal of Helminthology, Journal of Morphology, Journal of Nematode Morphology, Journal of Invertebrate Pathology, Journal of Nematology, Invertebrate Biology, Nematologia Brasileira, Nematology, Nematologia Mediterranea, Oecologia, PLOS One, PLOS Pathogen, Proceedings of the National Academy of Science, Revista de la Facultad de Ciencias Agrarias Universidad Nacional de Cuyo (Argentina), Revista de la Sociedad Colombiana de Entomologia, Revista Peruana de Entomologia, Russian Journal of Nematology, Scientia Agricola, Science, Scientia Horticulturae, Symbiosis, Systematic Parasitology, Trends in Ecology and Evolution, Zootaxa, PLOS Pathogen, BMC evolutionary Biology

Book reviewer, *Insect Pathology and Microbial Pest Control*. Editors: Fernando E. Vega and Harry K. Kaya, Elsevier Academic Press

Book reviewer, *Nematode Infestations in Horticultural Crops*. Editor: Mujeebur Rahman Khan, Springer

Book reviewer, *Integrated Management of Plant Pests and Diseases*, Editors: A. Ciancio and K. G. Mukerji, Springer

SCHOLARLY PRESENTATIONS

- Invited Presentations at International Conferences, Symposia, Workshops, Seminars: Total: 72 (43 international; 29 national).
- Contributed Presentations: Total: 121 (55 international; 66 national).

RESEARCH GRANTS AND SCHOLARLY AWARDS

Extramural Funding

Federal- Total: \$3,403,983

State - Total: \$61,557

Private- Total: \$98,975

Other sources- Total: \$218,000

Intramural (Competitive basis)

University of Arizona- Total: \$249,792

Federal

- 2023-2026 . USDA- NIFA, Capacity Building Grants for Non-Land Grant Colleges of Agriculture Program. *Education and Work Force Development on Climate Smart Agriculture*. Total Award: \$750,000.
- 2019-2022 · NSF, Research Experience for Undergraduates, Site Program. *REU-Site: CALS Undergraduate Research Experience in Microbial Symbiosis and Diversity*. Total Award: \$ 472,583.
- 2018 · Western Alliance to Expand Student Opportunities (WAESO). Three projects: 1) *Role of Type 6 secretion system in Xenorhabdus bacteria*. Total Award: \$1,460.50; 2) *Pheromone production in Steinernema nematodes*. Total Award: \$1,460.50; 3) *Transmission of Photorhabdus symbionts in Heterorhabditis nematodes*. Total Award: \$1,460.50
- 2017 · Western Alliance to Expand Student Opportunities (WAESO). Functional interactions between Steinernema infective juvenile nematodes and their bacterial symbionts. Total Award: \$4,378.
- 2015-2020 · USDA, NIFA Program. Role of *Xenorhabdus* Bacteria on Pheromone Production by *Steinernema* Nematodes: Impact on Nematode Fitness and Formulation. Total Award: \$ 454,995
- 2012-2013 · MGE@MSA-AGEP Postdoctoral and Bridge Doctoral Support Research. NSF/Arizona State University. Graduate student Support. Total Award: \$1,000.23
- 2010-2011 · NSF, Integrative Organismal Biology Cluster, Physiological and Structural Systems Program. Research Experience for Undergraduates (REU) Supplement for award *Host specificity strategies in a binary mutualism*. Total Award: \$8,550.
· NSF, Integrative Organismal Biology Cluster, Physiological and Structural Systems Program. Research Experience for Teachers (RET) Supplement for award *Host specificity strategies in a binary mutualism*. Total Award: \$ 11,125.
- 2009-2011 · WSARE-Graduate student fellow's grant in sustainable agriculture. *Assessing Direct and Indirect Interactions between Insect and Plant Pathogens and Their Impact on Insect Herbivores*. Total Award: \$24,996.
- 2009-2010 · NSF-Research Experience for Undergraduates (REU) Supplement for award *A multi-gene approach to assess phylogenetic relationships of the entomopathogenic bacteria and their nematode hosts*. Total Award: \$ 10,300.
· NSF-Research Experience for Teachers (RET) for award. *A multi-gene approach to assess phylogenetic relationships of the entomopathogenic bacteria and their nematode hosts*. Total Award: \$ 6,622.
- 2008-2016 · NSF, Research Coordination Network Program. *Nematode-bacteria symbioses research coordination network: promoting multidisciplinary research and expanding educational curricula*. Total Award: \$ 425,969.
- 2008-2011 · NSF, Integrative Organismal Biology Cluster, Physiological and Structural Systems Program. *Host specificity strategies in a binary mutualism*. Total Award: \$ 300,491.
- 2008-2009 · NSF- Integrative Organismal Biology Program. Undergraduate Support. *A multi-gene approach to assess phylogenetic relationships of the entomopathogenic bacteria Xenorhabdus spp. (Enterobacteriaceae) and their nematode hosts*. Total Award: \$ 5,983.
· NSF- Integrative Organismal Biology Program. Undergraduate Support. *Nematodes of the tropical rainforests of Costa Rica: Linking morphology and MOTUs*. Total Award: \$7,189.

- . Center for Insect Science Faculty Grant, University of Arizona. *Cyclodepsipeptide metabolites from the insect-pathogenic fungus Beauveria bassiana: Biocontrol alternatives and developing anticancer research*. Total Award: \$10,000.
- 2007 · USDA, NRI. Arthropod and Nematode Biology and Management, Organismal and Population Biology Program. *Synergisms between entomopathogenic nematodes and Bt crops*. Total Award: \$ 206,000.
- 2007-2008 · NSF, Integrative Organismal Biology Program. Undergraduate Support. *Development, morphology, and physiology of the bacterial colonization site in steinernematid nematodes*. Total Award \$ 6,000.
- . NSF, Functional and Regulatory Systems, Division of Integrative Organismal Biology. *Workshop Support. Strengthening Research Collaborations and dissemination knowledge of nematode-bacteria partnerships*. Total Award: \$7,362.
- 2007-2010 · NSF, Systematic Biology and Biodiversity Inventories Cluster. *A multi-gene approach to assess phylogenetic relationships of the entomopathogenic bacteria Xenorhabdus spp. (Enterobacteriaceae) and their nematode hosts*. Total Award: \$180,000.
- 2007-2008 · NSF, Systematic Biology and Biodiversity Inventories Cluster. *Nematodes of the tropical rain forests of Costa Rica, Linking morphology and MOTUs*. Total Award: \$134,999.
- . W-SARE, Graduate Student Fellowship Grants in Sustainable Agriculture. *An Environmentally friendly alternative for control of the citrus nematode in Arizona*. Total Award: \$ 19,476.
- 2006-2008 · USDA-CSRESS, Regional IPM Program. *Assessment of native insecticidal nematodes: An alternative for control of urban pests in the southwest*. Total Award: \$ 60,000.
- 2004-2007 · International Arid Land Consortium (IALC). *Nematode diversity in desert and semi-desert ecosystems in Jordan*. Total Award: \$ 62,160.
- 2004-2006 · NSF- Integrative Organismal Biology Program. *A Development, morphology, and physiology of the bacterial colonization site in steinernematid nematodes*. Total Award: \$ 193,021.
- NSF, Biotic Surveys, and Inventories Program. *Species inventories in tropical rain forests of Costa Rica*. Total Award: \$36,398.
- State**
- 2016 · Arizona Department of Agriculture. Diagnostics of Plant Parasitic Nematodes. Total Award: \$10,000.
- 2015 · Arizona Department of Agriculture. Diagnostics of Plant Parasitic Nematodes. Total Award: \$10,000.
- 2006-2007 · Arizona Citrus Research Council (ACRC), and Yuma County Pest Abatement District (YCPAD), Arizona Department of Agriculture. *Evaluation of entomopathogenic nematodes for the control of Hippelates eye-gnats and reduction of the citrus nematode populations in Yuma County*. Total Award: \$ 16,719.
- 2004-2005 · Arizona Iceberg Lettuce Research Council (AILRC), Arizona Department of Agriculture. *Evaluation of Arizona-native entomopathogenic nematodes for management of lepidopterous larvae in head lettuce*. Total Award: \$11,660.
- 2003-2004 · Arizona Citrus Research Council (ACRC), Arizona Department of Agriculture. *Evaluation of native and exotic entomopathogenic nematodes for the control of the citrus nematode, Tylenchulus semipenetrans*. Total Award: \$ 13,178.

Private

- 2013-2017 · New England Biolabs, Ipswich, NH. Funding in support of speakers for symposia and workshops at various scientific meetings. Total Award: 6,000.
- 2003-2004 · American Association for the Advancement of Science (AAAS) and the Women's International Science Collaboration (WISC) Program Travel Grant. *Diversity of entomopathogenic nematodes and their symbiotic bacteria from Costa Rica*. Total Award: \$3,975.
- 2000-2001 · American Society for Microbiology, C. P. C. International Program. *Survey of native entomopathogenic nematode species in natural reserves in Costa Rica*. Total Award: \$20,000.
- 1996-1997 · Eppley Foundation for Research. *Diversity of entomopathogenic nematodes in California*. Total Award: \$15,000.
- 1993-1995 · The Rockefeller Foundation, Biotechnology Career Program. *Combining taxonomy and ecology of insect parasitic nematodes. A non-chemical approach*. Total Award: \$34,000.
- 1991-1992 · International Foundation for Science, Stockholm, Sweden. *Damaging chrysomelids for agriculture and their control by insect-parasitic nematodes*. Total Award: \$20,000.

Other Sources

- 2005-2007 · University of Hacettepe, Turkey. *Molecular characterization of entomopathogenic nematodes from Turkey*. Total Award: \$8,000.
- 1991-1994 · Consejo Nacional de Investigaciones Científicas y Tecnológicas (CONICET). Buenos Aires, Argentina. *IPM of alfalfa weevils in Argentina*. Total Award: \$150,000
- 1989-1991 · Consejo Nacional de Investigaciones Científicas y Tecnológicas (CONICET). PID-BID Program. *Systematics and ecology of alfalfa weevils*. Total Award: \$ 60,000.

University of Arizona

- 2017-2019 · CALS, Venture Innovation Grant. *Harnessing an Arizona native insect pathogenic bacterium for natural products with medical application*. Total Award: \$ 79,726.
- Research Discovery and Innovation Office, Accelerate for Success Grant. *Bioprospecting of secondary metabolites from *Photorhabdus* bacteria and their application in pest management application*. Total Award: \$100,000
- 2016 · Seed Grant, Center for Insect Science. *Galleria mellonella (Lepidoptera Pyralidae) as a surrogate model to study the Enteropathogenic *E. coli* Type 3 Secretion System*. Total Award: \$10,000.
- 2015 · Faculty Research Development Grant. To attend the Fondo de Innovación para la Competitividad (FIC) Meeting, Puerto Montt, Chile. Puerto Montt, Chile. Total Award: \$1,500.
- 2012 · Faculty Research Development Grant. To visit Dr. H. Schrierenberg University of Cologne, Germany. Total Award: \$1,500.
- 2014 · CALS, RIC Program. *Diversity and abundance of nematode communities as indicators of post-fire resilience and soil properties in Arizona's Sky Islands*. Total Award: \$7,000.
- 2010 · Faculty Research Development. To attend the 43rd Annual Meeting of the Society for Invertebrate Pathology, 10th International Colloquium on Invertebrate Pathology and Microbial Control, 7/11-7/15. Total Award: \$1,500.
- 2008-2009 · Seed Grant, ADVANCE Program. *Mutualistic Entomopathogens: A Model System for Studies of Mutualism and Multitrophic Interactions*. Total Award: \$ 29,966.

- 2008 . Junior Faculty Conference Grant. To attend the XXIII International Congress of Entomology, Durban South Africa, 7/12-7/16. Total Award: \$ 1,500.
- 2007 Center for Insect Science Grant. Cyclodepsipeptide *secondary metabolites from the insect-pathogenic fungus Beauveria bassiana: enhancing biocontrol alternatives and developing anticancer drugs*. Total Award: \$5,000.
- 2006 · Foreign Travel Grant. To attend 39th Annual Meeting of the Society for Invertebrate Pathology, Wuhan, China. Total Award: \$800.
- 2004 · Foreign Travel Grant. To attend 37th Annual Meeting of the Society for Invertebrate Pathology, Helsinki, Finland. Total Award: \$700.
- 2002-2003 · Faculty Small Grant. *Assessing entomopathogenic nematode diversity in oak woodlands of southeastern Arizona*. Total Award: \$10,000.
- 2002 · Foreign Travel Grant. To attend the VIII International Colloquium on Invertebrate Pathology and Microbial Control, Foz do Iguacu, Brazil. Total Award: \$ 600.

PUBLICATIONS (124 peer-reviewed articles, 13 book chapters, 2 books)

Peer-reviewed

1. Kusakabe, A., Molnár, I. and **Stock, S.P.**, 2023. *Photorhabdus*-derived secondary metabolites reduce root infection by *Meloidogyne incognita* in cowpea. *Plant Disease*, <https://doi.org/10.1094/PDIS-11-22-2574-SC>.
2. Pothula, R., Lee, M.W. and **Stock, S.P.**, 2023. Type 6 secretion system components hcp and vgrG support mutualistic partnership between *Xenorhabdus bovienii* symbiont and *Steinernema jolietti* host. *Journal of Invertebrate Pathology*, 198, p.107925.
3. Lefoulon, E., McMullen, J.G. and **Stock, S.P.**, 2022. Transcriptomic analysis of *Steinernema* nematodes highlights metabolic costs associated to *Xenorhabdus* endosymbiont association and rearing conditions. *Frontiers in Physiology*, 13, p.821845.
4. Lefoulon, E., Campbell, N. and **Stock, S.P.**, 2022. Identification of novel prophage regions in *Xenorhabdus nematophila* genome and gene expression analysis during phage-like particle induction. *PeerJ*, 10, p.e12956.
5. Kusakabe, A., Wang, C., Xu, Y.M., Molnár, I. and **Stock, S.P.**, 2022. Selective Toxicity of Secondary Metabolites from the Entomopathogenic Bacterium *Photorhabdus luminescens sonorensis* against Selected Plant Parasitic Nematodes of the Tylenchina Suborder. *Microbiology Spectrum*, 10 (1), pp.e02577-21.
6. Thappeta, K.R.V., Ciezki, K., Morales-Soto, N., Wesener, S., Goodrich-Blair, H., **Stock, S.P.** and Forst, S., 2020. R-type bacteriocins of *Xenorhabdus bovienii* determine the outcome of interspecies competition in a natural host environment. *Microbiology*, 166, 1074-1087.
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9. **Stock, S.P.**, 2019. Partners in crime: symbiont-assisted resource acquisition in *Steinernema* entomopathogenic nematodes. *Current opinion in insect science*, 32: 22-27.
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- Assembly of the Entomopathogenic Bacterium *Photorhabdus luminescens* subsp. *sonorensis* Caborca. *Microbiology Resource Announcements*, 8, pp.e00692-19.
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