

Cassandra Leah Quave, Ph.D.

Curriculum Vitae

Emory University, Department of Dermatology and Center for the Study of Human Health

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SHORT BIO

Dr. Cassandra L. Quave is Curator of the Herbarium and Associate Professor of Dermatology and Human Health at Emory University, where she leads anti-infective drug discovery research initiatives and teaches courses on medicinal plants, natural products, microbiology, and pharmacology. She earned degrees in biology and anthropology (B.S.) from Emory University in 2000, and a Ph.D. in biology in 2008 from Florida International University under the direction of Dr. Bradley Bennett. She completed postdoctoral fellowships in microbial pathogenesis at the University of Arkansas for Medical Sciences under the direction of Dr. Mark Smeltzer (2009-2011) and in human health at Emory University under the direction of Dr. Michelle Lampl (2011-2012). As a medical ethnobotanist, her work focuses on the documentation and pharmacological evaluation of plants used in traditional medicine. Dr. Quave's research is supported by the National Institute of Health, industry contracts, and philanthropy. She is a Fellow of the Explorers Club, a past President of the Society for Economic Botany, a recipient of the Emory Williams Teaching Award, Charles Heiser, Jr. Mentor Award, American Botanical Council James. A. Duke Excellence in Botanical Literature Award, and American Herbal Products Association Herbal Insight Award. She serves on the Board of Directors for the Society for Investigative Dermatology and the editorial boards for *Natural Product Reports*, *Scientific Reports*, and *Journal of Ethnobiology and Ethnomedicine*, and is an associate editor for *Frontiers in Pharmacology*.

Beyond her academic research and teaching activities, Dr. Quave dedicates significant effort to scientific outreach and engagement with the public. She is the co-creator and host of "Foodie Pharmacology", a podcast dedicated to exploring the links between food and medicine, now in its fourth season. She is the creator and host of the "Teach Ethnobotany" channel on YouTube, which is dedicated to sharing educational videos about botanicals, pharmacology, and natural products. Dr. Quave has authored more than 100 scientific publications, two edited books, twenty book chapters, and seven patents; her work has been cited in the scientific literature more than 5,000 times. Her research has been the subject of feature profiles in the *New York Times Magazine*, *BBC Science Focus*, *National Geographic Magazine*, NPR, PBS, and the National Geographic Channel. She has written opinion essays for *The Wall Street Journal* and *The Conversation*. She is author of an acclaimed science memoir *The Plant Hunter: A Scientist's Quest for Nature's Next Medicines*. Learn more about her research by visiting her [website](#) or following her on [Facebook](#) or [Twitter](#).

EDUCATION

FLORIDA INTERNATIONAL UNIVERSITY, Miami, FL

Graduate Program in Biology (Ph.D. Biology)

08/2003-12/2008

Doctoral research on the identification, chemical characterization, and bioactivity of Italian medicinal plants used in traditional medicine for skin and soft tissue infections.

EMORY UNIVERSITY, Atlanta, GA

B.S. Biology; B.S. Anthropology and Human Biology

08/1996-05/2000

Linguistic Skills

- **English**, Fluent in Spoken, Reading, Writing
- **Italian**, Fluent in Spoken, Reading; Intermediate in Writing
- **Spanish**, Intermediate in Written and Spoken, Fluent in Reading
- **Albanian**, Introductory Spoken

POSITIONS AND PROFESSIONAL EXPERIENCE

EMORY UNIVERSITY, Atlanta, GA

Current Primary Appointment (School of Medicine)

Associate Professor of Dermatology

9/2020-present

Tenure-track home appointment focused on directing a drug discovery research program.

Current Joint/Secondary Appointments (College of Arts and Sciences)

Associate Professor of Human Health

9/2020-present

Secondary home appointment focused on undergraduate teaching and research.

Curator of the Emory University Herbarium

06/2012-present

Responsible for the museum quality curation and management of a collection of >22,000 specimens.

Associated (Affiliate) Professor of Biology

06/2012-present

Associate appointment to facilitate work in direction of the herbarium, cross-listed classes, and training undergraduate researchers in biology.

Associated (Affiliate) Faculty of Anthropology

11/2013-present

Associate appointment to facilitate cross-listed classes and training undergraduate researchers in anthropology.

Associated (Affiliate) Professor of Environmental Science

06/2012-present

Associate appointment to facilitate cross-listed classes and training undergraduate researchers in environmental sciences.

Past Appointments (College of Arts and Sciences)**Assistant Professor of Dermatology**

11/2013-8/2020

Tenure-track home, 50% appointment focused on directing a drug discovery research program.

Assistant Professor of Human Health, College of Arts and Sciences

11/2013-8/2020

Secondary home, 50% appointment focused on undergraduate teaching and research.

Visiting Assistant Professor of Human Health

8/2012-10/2013

Teaching and research appointment, developing courses in human Health and leading R01 funded research (PI).

Postdoctoral Fellow

08/2011-07/2012

Advisor: Michelle Lampl, M.D., Ph.D.

Postdoctoral teaching appointment aimed at the design of courses for the new Center for the Study of Human Health program.

CLQ BOTANICALS LLC, Atlanta, GA

CEO

4/2020-present

Consulting company focused on functional botanical ingredients for industry.

PHYTOTEK LLC, Atlanta, GA

CEO and Chief Scientific Officer

10/2010-present

Startup company focused on commercialization of my patented anti-biofilm technology.

UNIVERSITY OF ARKANSAS FOR MEDICAL SCIENCES, Little Rock, AR

Postdoctoral Fellow

08/2009-07/2011

Advisor: Mark Smeltzer, Ph.D.

Postdoctoral training in microbial pathogenesis with research focus on the anti-biofilm properties of plant natural products. Funded by F32 award from NIH (PI).

UNIVERSITY OF ARKANSAS AT LITTLE ROCK, Little Rock, AR

Adjunct Professor of Biology

01/2010-2018

Online teaching appointment of Microbiology with lab (Fall, Spring, Summer) and Medical Botany (Summer).

FLORIDA INTERNATIONAL UNIVERSITY, Miami, FL

Graduate Student (Research Assistant & Teaching Assistant)

08/2003-12/2008

Advisor: Bradley C. Bennett, Ph.D.

Doctoral research and training in ethnobotany, plant taxonomy and natural products chemistry. Funded by T32 and then F31 awards from NIH.

Other Prior Scientific Positions

- Honorary Director, Ethnobotanical Garden of Ginestra, Italy, 2008-2016
- President and Co-Director, Biocultural Diversity Conservancy, 2010-2014
- Science Teacher, Miller Grove Middle School, 2001-2002
- Statistical Analyst, DeSoto County Health Department, 2000-2001
- Research Assistant in Anthropology, Emory University, 1999-2000
- Research Assistant, Yerkes Primate Research Facility, 1999-2000
- Teaching Assistant in Biology, Emory University, 1998
- Research Assistant, Emory University School of Medicine, Winship Cancer Center, 1997

Consultantships and Scientific Advisory Boards

- Scientific Advisory Board, Firefly Innovations, LLC, 2018-present
- Consultant, The Periodic Table of Food Initiative, Rockefeller Foundation, 2020-present
- Consultant, The Coca Cola Company, a Fortune 100 beverage company, 2018-2021
- Consultant, Medline, a global manufacturer and distributor of medical products with patient-centered solutions, services and expertise across the continuum of care, 2018-2020
- Scientific Advisory Board, Lifestory Health, Inc., a US-based medical diagnostics company, 2017-2019
- Consultant, New Herbal Medicine Company, 2017-2018
- Consultant, Hybrid Productions LLC, Consultant for National Geographic TV program on the history of medicine, 2016-2017
- Consultant, YourEncore Consulting for Industry (Fortune 200 Companies), 2015-2016
- Scientific Advisory Council for the Zayed Complex for Herbal Research and Traditional Medicine, Abu Dhabi, UAE, 2013-2016

Research Faculty Appointments

- Itch Translational Clinical Home at Emory (ITCH-E), Dept. of Dermatology, Core Faculty, 2018-2020
- Winship Cancer Institute Discovery and Developmental Therapeutics Program, Member, 2015-present
- Emory Antibiotic Resistance Center, Member & Internal Advisory Board, 2015-present

Continuing Development Activities

- Diversity: Inclusion in the Modern Workplace (EDU) (255029-11207) course offered through the Emory Learning Management System, 2021
- Faculty Success Program, National Center for Faculty Development and Diversity, 2021

- QEP: Nature of the Evidence Teaching Workshop, Emory University, 2016
- Academic and Industry Intersection Conference, Georgia Bio, 2015
- Academic Learning Community: Food Studies, 2014
- Kauffman TechVenture Program at Emory University, 2012
- Pitching and Placing Your Op-Ed workshop at Emory University, 2012
- FAST mentor award program for entrepreneurs, 2010
- Advanced Invention to Venture (AI2V) workshop, 2010

HONORS AND AWARDS

- 2022-2023 Flag Carrier Award from Wings World Quest, 2022
- 2022 American Herbal Products Association (AHPA) Herbal Insight Award, 2022
- 2021 American Botanical Council James A. Duke Excellence in Botanical Literature Award, 2022
- Kirkus Reviews, included in list of [Best Nonfiction Books of the Year](#) (*The Plant Hunter*), 2021
- Phi Beta Kappa Honor Society Recognition for Excellent Teaching, Emory University, 2020
- 2020 Emory School of Medicine Researcher Appreciation Day Recognition, 2020
- Awarded the Charles B. Heiser, Jr. Mentor Award by the Society for Economic Botany, 2019
- Awarded the Emory Williams Distinguished Undergraduate Teaching Award at Emory University, 2019
- Faculty Appreciation Award from the Office of Undergraduate Admissions at Emory University, 2018
- Nominated for the Emory Williams Distinguished Undergraduate Teaching Award, 2018
- Selected for the Emory University Alumni “40 Under Forty” recognition program, Emory University, 2017
- 2017 Emory School of Medicine Researcher Appreciation Day Recognition, 2017
- Research/Scholarship Award 2015-2016, Emory School of Medicine Department of Dermatology, 2016
- Emory Antibiotic Resistance Center, Travel Award for Advanced Course in Antibiotic Resistance, 2016
- Competitively selected for Advanced Course on Antibiotics, Institut Merieux and Institut Pasteur, 2016
- Phi Beta Kappa Honor Society Recognition for Excellent Teaching, 2015
- Center for Faculty Development and Excellence, Scholarly Writing and Publishing Fund Award, 2015
- Phytoneering Award, Global Research Initiative Competition, Bionorica SE, 2014
 - *Global competitive award, only awardee from USA out of 20 awardees total*
- Phi Beta Kappa Honor Society Recognition for Excellent Teaching, 2014
- Kavli Fellow, U.S. National Academy of Sciences, Indonesia Symposium, 2014
 - *One of a few select US scientists to be invited to the Kavli Frontiers in Science Symposium by the Indonesian Academy of Sciences – U.S. National Academy of Sciences*
- Harvard Business School Alumni New Venture Competition, Global Finalist, 2011
 - *Business plan competition with PhytoTEK, science startup for antibiofilm technology*

- Harvard Business School Alumni New Venture Competition, Washington DC club competition winner, 2011
- Harvard Business School Alumni New Venture Competition, New York club competition winner, 2011
- Emory University, Faculty Development & Excellence Award, 2011
- International Conference on Gram Positive Pathogens Travel Award, 2010
- Open Science Network in Ethnobiology, Travel Award, 2010
- 1st Place for Oral Presentation in the Category of Biology, Marine and Life Sciences, Florida International University Graduate Student Association Scholarly Forum, 2008
- American Society of Pharmacognosy Graduate Student Poster Award, 2008
- Botany in Action, Field Research Travel Award, 2007; 2008
- The Edmund H. Fulling Award, 2007
 - *Awarded for the best contributed oral paper by a junior professional at the annual meeting of the Society for Economic Botany*
- The National Charles R. Jenkins Award for Excellence in Anthropology, 2000

RESEARCH SUPPORT

Current and Completed Grant and Research Contract Support

NATIONAL INSTITUTES OF HEALTH, R01AT011990 5/6/2022-5/5/2027

Development and validation of a high-throughput MicroED-driven platform technology for natural product discovery

Role: Contact MPI

Direct Cost: \$2,721,527

Total Cost: \$3,164,415

We propose development and optimization of a micro-crystal electron diffraction platform technology for high-throughput compound identification with nanogram quantities of analytes found in natural mixtures.

EMORY UNIVERSITY CENTER FOR FACULTY DEVELOPMENT AND EXCELLENCE, PUBLIC SCHOLARSHIP ADVANCEMENT FUND, 4/15/2022-4/14/2023

Development of a website platform for educational outreach

Role: PI

Direct Cost: \$2,500

Total Cost: \$2,500

The aim of this project is to work with a web design architect to optimize the functionality and reach of my public engagement website (<https://cassandraquave.com/>)

EMORY UNIVERSITY RESEARCH COMMITTEE-HALLE INSTITUTE FOR GLOBAL RESEARCH AWARD, 6/1/2022-5/31/2023

Targeting ESKAPE pathogens with Egyptian medicinal plants

Role: PI

Direct Cost: \$30,000

Total Cost: \$30,000

The goal of this study is to work with local partners in Egypt at Heliopolis University to collect medicinal plants for extraction and antimicrobial evaluation against ESKAPE pathogens.

U.S. AGENCY FOR INTERNATIONAL DEVELOPMENT (USAID), PARTNERSHIPS FOR ENHANCED ENGAGEMENT IN RESEARCH (PEER) PROGRAM, 3/1/2021-2/28/2023

Phytochemical, biological and toxicological evaluation of hop (*Humulus lupulus* L.) from populations growing wild in Kosovo

Role: Co-I, U.S. Government Supported Partner (PI: Prof. Avni Hajdari, University of Prishtina)

Direct Cost: \$150,000 Total Cost: \$150,000

The goal of this study is to evaluate the genetic and chemical variability of Kosovar wild hops by integrating tools from multiple disciplines (genetics, phytochemistry, botany) to offer a unique opportunity to foster the sustainable use of natural resources in the Balkans. [Read abstract.](#)

NATIONAL INSTITUTES OF HEALTH GRANT R21AT011105, 08/15/2020 - 07/31/2022

Preclinical evaluation of dietary botanical natural products for drug interactions

Role: PI

Direct Cost: \$275,000 Total Cost: \$429,000

The goal of this study is to identify and characterize natural product inhibitors that interact with key drug metabolizing enzymes.

MARCUS FOUNDATION GRANT, 9/2020-8/2021

Investigation of Medicinal Plants for COVID-19

Role: PI

Direct Cost: \$262,878 Total Cost: \$289,276

This study aims to screen a large library of botanical extracts and natural products to identify putative candidates against SARS-CoV-2 using *in vitro* assays to assess safety and efficacy in blocking viral entry. Botanicals used in the commercial dietary supplement market will be prioritized for testing and lead extracts will be subjected to chemical characterization studies.

NATIONAL INSTITUTES OF HEALTH R21AT010774, 10/2019-9/2022

Mechanistic studies on analgesic effects of terpene enriched extracts from hops

Role: Contact PI (MPI grant)

Direct Cost: \$394,686 Total Cost: \$483,446

Discovery of non-opiate analgesics is urgently needed to provide patients with non-addictive medicines to the management of pain. Terpenes are a class of natural compounds produced by plants that may provide a solution. In this study, together with MPI Dr. Isaac Chiu of Harvard University, we will investigate the analgesic effects of terpenes from Hops in inflammatory and neuropathic pain.

NATIONAL INSTITUTES OF HEALTH GRANT R21 AI136563, 5/2018-5/2021

Novel compounds from botanical innovation yields *Acinetobacter* treatments

Role: PI

Direct Cost: \$275,000 Total Cost: \$433,356

The goal of this study is to identify and characterize natural product inhibitors of multidrug resistant *Acinetobacter baumannii*.

WINSHIP MELANOMA FUND, 2/2019-1/2020

Isolation and characterization of novel therapeutics targeting melanoma

Role: PI

Direct Cost: \$45,455 Total Cost: \$50,000

The goal of this project is to isolate and determine the structure of natural products with specific activity against melanoma cell lines from a medicinal plant species.

NATUREX, 05/2019-09/2019

Inhibition of UPEC with cranberry formulations

Role: PI

Direct Cost: \$22,423 Total Cost: \$34,980

The goal for this research contract is to assess the antimicrobial properties of cranberry with other botanical formulations against uropathogenic *E. coli*.

NATUREX, 12/2018-08/2019

Evaluate the antibacterial potential of combination therapies consisting of a probiotic organism and cranberry formulations

Role: PI

Direct Cost: \$53,549 Total Cost: \$83,536

The goal for this research contract is to assess the antimicrobial properties of cranberry-probiotic bacteria formulations against uropathogenic *E. coli*.

THE COCA COLA COMPANY, 07/2018-09/2018

Generate peak libraries in process to isolate and identify new natural ingredients from select flora

Role: PI

Direct Cost: \$11,778 Total Cost: \$18,374

The goal of this research contract is to generate a peak library of natural product extracts for the discovery of new taste modifiers.

THE COCA COLA COMPANY, 06/2018-04/2019

Identify new natural ingredients from flora indigenous to the Southeast USA

Role: PI

Direct Cost: \$250,100 Total Cost: \$370,411

The goal of this research contract is to collect, extract and chemically characterize new botanical chemical matter for new compound discovery by mass spectrometry.

THE COCA COLA COMPANY, 09/2017-04/2018

Accessing edible plants for the discovery of new natural sweeteners

Role: PI

Direct Cost: \$135,296 Total Cost: \$208,262

The goal of this research contract was to explore the chemical space of the Quave Natural Products Library for new chemical matter of relevance to human taste perception.

NATUREX, 05/2017-10/2017

Anti-biofilm potential of cranberry extract formulations

Role: PI

Direct Cost: \$17,986 Total Cost: \$25,000

The goal of this research contract was to assess the anti-biofilm activity of Naturex proprietary formulas.

EMORY UNIVERSITY RESEARCH COMMITTEE GRANT, 05/2017-04/2018

Investigation into the antibacterial potential of medicinal plants of the Aegadian Islands, Italy

Role: PI

Direct Cost: \$30,000 Total Cost: \$30,000

The goal of this study is to document the ethnobotanical practices of the Aegadian Islands and to examine the antibacterial activity of medicinal plants used locally for the management of infection.

WINSHIP INVEST\$ AWARD – MELANOMA INNOVATION FUND, 07/2016-06/2017

Development of a novel discovery platform for melanoma therapeutics

Role: PI

Direct Cost: \$45,455 Total Cost: \$50,000

The goal of this project was to develop a high throughput drug discovery platform for the identification of novel natural product leads with activity against melanoma cancer lines.

EMORY UNIVERSITY OFFICE OF SUSTAINABILITY, 2016

Green lab incentives program

Role: PI

Direct Cost: \$2,363 Total Cost: \$2,363

The goal of this project was to improve sustainable use of space and power in the Quave Research Group laboratories.

EMORY UNIVERSITY CENTER FOR THE STUDY OF HUMAN HEALTH, 03/2016

Florida botanical expedition

Role: PI

Direct Cost: \$2,100 Total Cost: \$2,100

These funds supported the expense of student participation in a plant collecting expedition in Florida.

COMMUNITY FOUNDATION FOR GREATER ATLANTA, 07/2014-06/2018

Revitalization of the Emory University Herbarium

Role: PI

Direct Cost: \$250,000 Total Cost: \$250,000

The goal of this project was to reopen the Emory Herbarium, organize, annotate and digitize a collection of >20,000 specimens for public viewing access via the SERNEC platform.

BIONORICA SE, 02/2014-01/2015

Botanical natural product inhibitors of acne

Role: PI

Direct Cost: \$68,500 Total Cost: \$68,500

The goal of this research contract was to identify inhibitors of *Propionibacterium acnes* growth and biofilm formation from a portion of the Quave Natural Products Library.

GEORGIA RESEARCH ALLIANCE PHASE 1A and 1B AWARDS, 05/2013-05/2014

Anti-infectives for Companion Animals

Role: PI

Direct Cost: \$50,000 Total Cost: \$50,000

The goal of this study was to evaluate the chemical composition of an anti-biofilm formulation active against staphylococci and streptococci.

NATIONAL INSTITUTES OF HEALTH GRANT R01 AT007052, 7/2012-6/2017

Mechanistic Studies on Staphylococcal Quorum Quenching Natural Products

Role: PI

Direct Cost: \$1,250,000 Total Cost: \$1,868,392

The goal of this study was to identify natural product inhibitors of staphylococcal virulence and to design new tools for the study of quorum sensing mechanisms.

Prior to Independent Career

ARKANSAS SCIENCE AND TECHNOLOGY AUTHORITY, 2010

Technology Assistance Transfer Assistance Program

Role: PI

Direct Cost: \$3,750 Total Cost: \$3,750

The goal of this project was to gain training in the launch of a technology startup company (PhytoTEK LLC).

NATIONAL INSTITUTES OF HEALTH GRANT F32 AT005040, 01/2009-07/2011

Anti-biofilm activity of white horehound extract in catheter-associated infection

Role: PI

Direct Cost: \$160,776 Total Cost: \$160,776

The goal of this training grant was to develop in-depth skills in biofilm studies and to assess the anti-biofilm potential of plant natural products in *Staphylococcus aureus*.

NATIONAL INSTITUTES OF HEALTH GRANT F31 AT004288, 07/2007-12/2008

Anti-pathogenic activity of natural products from plants against MRSA

Role: PI

Direct Cost: \$67,799 Total Cost: \$67,799

The goal of this training grant was to develop skills in pharmacognosy and antimicrobial assays, as to assess the anti-pathogenesis properties of plant natural products.

ANNE S. CHATHAM FELLOWSHIP IN MEDICINAL BOTANY, GARDEN CLUB OF AMERICA, 2007

Anti-pathogenic Activity of Natural Products from Italian Medicinal Plants against MRSA

Role: PI

Direct Cost: \$4,000 Total Cost: \$4,000

The goal of this grant was to evaluate the biological activity of medicinal plants in antibacterial models for MRSA.

NATIONAL INSTITUTES OF HEALTH GRANT R25, 1/2007-6/2007

RISE Biomedical Research Initiative

Role: Trainee

Direct Cost (to support stipend): \$23,000

The goal of this grant was to support trainees at a majority underrepresented minority institution.

BOTANY IN ACTION, PHIPP'S CONSERVATORY & BOTANICAL GARDENS, 2006-2008

Ethnopharmacology of traditional medicines for the skin

Role: PI

Direct Cost: \$9,000 Total Cost: \$9,000

The goal of this grant was to support ethnobotanical field research for the completion of my dissertation.

UNITED STATES DEPARTMENT OF AGRICULTURE GRANT, 01/2006-12/2006

Agroecology of South Italian medicinal plants

Role: PI

Direct Cost: \$2,000 Total Cost: \$2,000

The goal of this field study was to assess the agroecology of medicinal plant cultivation and wild collection in Italy.

NATIONAL INSTITUTES OF HEALTH GRANT T32 AT001060, 08/2003-12/2006

Training in Alternative Tropical Botanical Medicine

Role: Trainee

The goal of this grant (PI: Bennett) was to support a training program in tropical ethnobotany and complementary medicine.

THE FOUNDATION FOR SCIENCE AND DISABILITY, 03/2001-06/2001

Ethnobotany of ethnic Albanians in Italy

Role: PI

Direct Cost: \$1,000 Total Cost: \$1,000

The goal of this field study was to document traditional ecological knowledge of plant use in ethnic Albanian communities of Lucania, Italy.

THE NATIONAL KAPPA ALPHA THETA FOUNDATION, 03/2001-06/2001

Ethnomedical practices of ethnic Albanians in Italy

Role: PI

Direct Cost: \$1,800 Total Cost: \$1,800

The goal of this field study was to document traditional medicinal practices of ethnic Albanian communities of Lucania, Italy.

EMORY COLLEGE INTERNATIONAL SCHOLARS PROGRAM, 2000

Ethnobotany field research in Peru

Direct Cost: \$2,951 Total Cost: \$2,951

The goal of this field study was to investigate health consequences of displacement of traditional medicine with Western medicine in rural Amazonia.

Crowdfunding and Gifts

EMORY MOMENTUM CROWDING PLATFORM, 2016

Save the Emory Herbarium Rare Plant Collection

Role: PI

Amount raised: \$1,800

The goal of this project was to repair and digitize our rare granite rock outcrop collection at the Emory University Herbarium.

TOTAL COMBINED DONATIONS FROM INDIVIDUALS

Year	Quave Research Group	Emory University Herbarium
2016	\$125	-
2017	\$9,678	\$100
2018	\$415	\$742
2019	\$100	
2020	\$1,360	\$200
2021	\$1,325	\$50
2022	\$2,345	\$150

DONATIONS FROM FOUNDATIONS OR GROUPS

Year	Source	Quave Research Group	Emory University Herbarium
2018	Paces Garden Club	\$250	-
2018	Samueli Foundation	\$2,500	-
2018	Firefly Innovations LLC	\$10,000	-
2018	Community Foundation for Greater Atlanta	\$10,000	-
2020	The Estate of Hubert Henry Whitlow, Jr.	-	\$130,168
2020	Community Foundation for Greater Atlanta	-	\$15,000
2022	Schwab Charitable Fund	\$1,000	
2022	The Estate of Hubert Henry Whitlow, Jr.	-	\$1,562

Funds raised from charitable giving are used for discretionary research expenses, primarily in support of emerging research projects and student research not yet supported by extramural grants.

Grant Support Awarded to Trainees in my Group

NATIONAL INSTITUTES OF HEALTH, NATIONAL CENTER FOR COMPLEMENTARY AND INTEGRATIVE HEALTH, F31AT011988, 4/2022-12/2024
Pre-doctoral training grant

Student Trainee: Caitlin Risener My role: Doctoral dissertation mentor Grant PI: Caitlin Risener
 Project title: "Exploring the Potential of Natural Products to Combat COVID-19"
 Total Amount: \$131,649

GARDEN CLUB OF AMERICA ANNE S. CHATHAM FELLOWSHIP IN MEDICINAL BOTANY, 2022
 Graduate Research Grant

Student Trainee: Caitlin Risener My role: Doctoral dissertation mentor Grant PI: Caitlin Risener
 This national award is given to one graduate student each year. It awards \$4500 to support student research on medicinal plants.

GARDEN CLUB OF AMERICA ZELLER SUMMER SCHOLARSHIP IN MEDICINAL BOTANY, 2022
 Undergraduate Research Training

Student Trainee: Matthew Menkart My role: Faculty Mentor Grant PI: Matthew Menkart
 This national award is given to one undergraduate student each year. It supports a student stipend and living expenses for a period of summer research on a topic concerning medicinal plants (\$3,000).

MARGARITA SALAS FELLOWSHIPS, 2021-2022

Post-doctoral Training Grant

Trainee: Airy Gras, Bio.D./Ph.D. My role: Faculty mentor Grant PI: A. Gras
 Spanish fellowship to train young doctors in Spanish public universities, foreign universities or research centers, or in Spanish public research organisms by means of subsidizing them for two continuous years. The first year training of the PI developed in Emory University to incorporate chemistry skills to link ethnobotanical data with plant chemistry.

NATIONAL INSTITUTES OF HEALTH 5T32GM008602-25, 2021-2022

Graduate Training in the Pharmacological Sciences

Student Trainee: William Crandall My role: Faculty Co-Advisor Grant PI: Randy Hall
 This competitive training support covers the student stipend, fees, and some research expenses for a 1 year training period.

GARDEN CLUB OF AMERICA ZELLER SUMMER SCHOLARSHIP IN MEDICINAL BOTANY, 2021
 Undergraduate Research Training

Student Trainee: Emily Edwards My role: Faculty Mentor Grant PI: Emily Edwards
 This national award is given to one undergraduate student each year. It supports a student stipend and living expenses for a period of summer research on a topic concerning medicinal plants (\$3,000).

JONES CENTER AT ICHAUWAY GRADUATE FELLOWSHIP, 2020-2023

Pre-doctoral Training Grant

Trainee: Lewis Marquez (Ph.D. Candidate) My role: Doctoral dissertation mentor
 Grant PI: L. Marquez

This fellowship will support his doctoral training and tuition expenses from 9/1/2020-12/31/2023, totaling \$146,007. His research project is focused on the evaluation of medicinal plants in the SE USA for antifungal properties against pathogenic *Candida* species.

NATIONAL INSTITUTES OF HEALTH T32-GM008602, 2019-2020

Graduate Training in the Pharmacological Sciences

Student Trainee: Caitlin Risener My role: Faculty Advisor Grant PI: Randy Hall
 This competitive training support covers the student stipend, fees, and some research expenses for a 1 year training period.

MEDICINES TRAVEL AWARD FOR POSTDOCTORAL FELLOWS, 2019

Post-doctoral Training Grant

Trainee: Francois Chassagne, Pharm.D./Ph.D. My role: Faculty mentor Grant PI: F. Chassagne
 This internationally competitive travel award (one awardee selected out of 38 applicants) to participate in an international conference of choice for his field. Dr. Chassagne will use these funds to present his research at the Phytochemical Society of Europe meeting in Lisbon, Portugal in 2019.

GARDEN CLUB OF AMERICA ZELLER SUMMER SCHOLARSHIP IN MEDICINAL BOTANY, 2018

Undergraduate Research Training

Student Trainee: Kat Bagger My role: Faculty Mentor Grant PI: Kat Bagger
 This national award is given to one undergraduate student each year. It supports a student stipend and living expenses for a period of summer research on a topic concerning medicinal plants (\$3,000).

NATIONAL INSTITUTES OF HEALTH T32 GM008602, 2017-2018

Graduate Training in the Pharmacological Sciences

Student Trainee: Akram Salam My role: Faculty Advisor Grant PI: Randy Hall
 This competitive training support covers the student stipend, fees, and some research expenses for a 1 year training period.

Pending Grant Support (Applied for and under review)

USAID, The U.S. - Egypt Science and Technology Joint Fund, 6/1/2023-5/31/2026

Anti-infective and anti-inflammatory drug discovery from Egyptian medicinal plants

Role: Co-PI

Direct cost: \$308,595 Total Cost: \$400,000

Antimicrobial resistance is one of the biggest threats to global health with a huge number of fatalities annually. There is a need for innovative anti-infective drug discovery strategies. Natural products from medicinal plants used in Egyptian herbal medicine will be examined for their anti-infective properties.

PEACHTREE GARDEN CLUB COMMUNITY FUND

Emory Herbarium Collections Project

Role: PI

Direct Cost: \$10,000 Total Cost: \$10,000

The goal of this project is to support expansion of the herbarium collections and educational outreach initiatives in the community.

NATIONAL GEOGRAPHIC SOCIETY

Expedition Atlantico: Medicinal plants of Colombia's tropical dry forests

Role: PI

Direct Cost: \$86,957 Total Cost: \$100,000

On Colombia's north coast, areas of tropical dry forest have been preserved, which host unique and unknown plants. Working in partnership with Colombian scientists, I will be collecting plant samples that

may provide the foundation for new therapies for drug resistant infections. There is a global health benefit to the project, and conservation benefit in reconnecting value to natural resources.

BIBLIOGRAPHY

Google Scholar: <https://scholar.google.com/citations?user=y4eJFbwAAAAJ&hl=en&oi=ao>

- **Number of citations:** 5,421
- **H-index** (*cumulative impact of scholarly output and performance*): 40
- **I10-index** (*number of publications with at least 10 citations*): 82

NIH iCite Relative Citation Ratio (RCR) values (*RCR represents the field and time-normalized citation rate, benchmarked to 1.0 for a typical (median) NIH paper in the corresponding year of publication. A paper with an RCR of 1.0 has received the same number of cites/year as the medium NIH-funded paper in its field, while a paper with an RCR of 2.0 has received twice as many cites/year as the median NIH-funded paper in its field*):

- **Max:** 12.96
- **Mean:** 2.08
- **SEM:** 0.22
- **Median:** 1.65

Short Research Description

The Quave lab applies the ethnobotanical approach to drug discovery. We examine botanical natural products for anti-virulence and antibiotic activity in treatment of multidrug-resistant bacterial infections. This involves field research to document traditional therapies for skin infections, collection of plants for chemical extraction, and bioassay-guided fractionation strategies to isolate novel drugs.

† Awards, honors, or high citations associated with the publication; ‡ Description of my contribution if I am neither first nor last author (per Emory guidelines); ** Students/postdocs/medical residents I have trained, undergraduate researchers are underlined; # Equal contributions.

Patents (See [this link](#) for a summary of Dr. Quave's Emory patent portfolio)

1. Quave, C.L., M.S. Smeltzer, C.M. Compadre, H. Hendrickson. [Anti-biofilm compositions and methods for using](#). Patent Numbers: WO2012048119-A2; US2012088671-A1; WO2012048119-A3. Derwent Primary Accession No.: 2012-E22562; Issued June 3, 2014; **Patent No.: US 9,351,492 B2 Issued May 31, 2016**
2. Quave, C.L., A.R. Horswill, J.T. Lyles**. [Botanical extracts and compounds from Castanea plants and methods of use](#). Provisional Filed June 26, 2015. Serial No. 62/185,146. Non-Provisional Filed June 24, 2016 Serial No. 15/195,514. **Patent No.: US 10,195,241 B2 Issued February 5, 2019; Patent No: US10,675,321 B2 Issued June 9, 2020**
3. Quave, C.L. and J.T. Lyles**. [Botanical extracts and compounds from Schinus plants and methods of use](#). Provisional Filed July 10, 2015. Serial No. 62/190,802. Non-Provisional Filed July 8, 2016. Serial No. 15/205,493. **Patent No.: US 10,675,315 B2 Issued June 9, 2020.**
4. Quave, C.L., A. Salam, G. Porras-Brenes, J. Lyles. Botanical Extracts and Compounds from Castanea plants and Methods of Use. Provisional No. 62/812,850 filed March 1, 2019.

5. Quave, C.L., H. Tang, G. Porras-Brenes, J. Lyles. Botanical extracts and compounds from Schinus Plants and Methods of Use. Continuation-in-Part Patent application No. 16/290,543 Filed March 1, 2019. **Patent No.: US 11,065,261 B2 Issued July 20, 2021.**
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7. Quave, C.L., F. Chassagne, L. Marquez, M. Dettweiler, J. Kubanek, A. Sweeney-Jones, B. Chhetri, Antimicrobial action of pentagalloylglucose and extracts of Anacardiaceae species. Provisional filed February 28, 2020.

Published Research Articles in Peer Reviewed Journals

1. Arora, M., S.C. Zambryzcki, J.M. Levy, A. Esper, J.K. Frediani, C.L. Quave, F.M. Fernández, R. Kamaleswaran. (2022) [Machine Learning Approaches to Identify Discriminative Signatures of Volatile Organic Compounds \(VOCs\) from Bacteria and Fungi using SPME-DART MS. *Metabolites*, 12, 232. <https://doi.org/10.3390/metabo12030232>](#)
2. Pájaro-González, Y.** A. Oliveros Díaz, J. Cabrera, E. Fernández, N. Reyes, O. Montes, W. Quiñones, C.L. Quave, L. Franco, D. Caro, F. Díaz-Castillo. (2022) [Mammea B/BA isolated from the seeds of *Mammea americana* is a potent inhibitor of methicillin-resistant *Staphylococcus aureus*. *Frontiers in Pharmacology* 13, <https://doi.org/10.3389/fphar.2022.826404>](#)
3. Zeiler, M.J., G.M. Connors, G.M. Durling, A.G. Oliver, L. Marquez**, R. Melander, C.L. Quave, C.C. Melander. (2022) [Synthesis, Stereochemical Confirmation, and Derivatization of a Clerodane Diterpene That Sensitizes Methicillin-Resistant *Staphylococcus aureus* to \$\beta\$ -Lactam Antibiotics. *Angewandte Chemie*, e202117458, <https://doi.org/10.1002/ange.202117458>](#)
4. Bergquist, S., K. Rastorguieva, J. Bonnet, J.S. Mascaro, F. Lobelo, L. W. Craighead, C.I. Haack, C.L. Quave, J. Bilko, C.J. Collins, M.A. Moore. (2022). [Rationale and design of the Emory Healthy Kitchen Collaborative: A 12-month culinary-based lifestyle program. *International Journal of Disease Reversal and Prevention* doi: 10.22230/ijdrp.2022v4n1a279](#)
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‡ Contributed to data analysis, writing and revising the article.
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‡ Directed the delta toxin quantification experiments and data analysis, contributed to writing and revising.
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- ‡ Contributed to the educational intervention and revision of the paper.

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‡ Led antibacterial testing efforts for antibiotic potentiation assays reported in article.
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‡ Contributed to field research, data analysis and revising the article.
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‡ Contributed to field research aims, data analysis and revising the article.
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† Editorial (mentions above article): Surridge, C. 2015. [Plant science's human factor](#). *Nature Plants* DOI: 10.1038/NPLANTS.2015.13
† News and Views Commentary (focuses on article): Pardo-de-Santayana, M. and M. Macia. 2015. [Biodiversity: The benefits of traditional knowledge](#). *Nature* 518: 487-488. doi:10.1038/518487a
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‡ Contributed to data analysis and revising the article.

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‡ Led chemistry aims, contributed to data analysis and study design, and revising the article.
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‡ Contributed to field research data analysis and revising the article.
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‡ Contributed to field research, data analysis, and revising the article.
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‡ Contributed to analysis of field research data and revising the article.
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‡ Led the chemical analysis aims and supervised microbiological assays, contributed to data analysis and revising the article. Listed as corresponding author.
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1. Quave, C.L. (March/April 2022) [Searching for nature's medicines](#). *Spirituality and Health*. [March/April 2022 issue in print]
2. Quave, C.L. (December 2021). [The Plant Hunter. One scientist's journey finding medicine, ethnobotany and the pharmacological potential of plants](#). *The Ethnobotanical Assembly*. Issue 8. Winter 2021. [online]
3. Quave, C.L. (December 2021) [7 essential medicinal mints you can grow and use in teas](#). *Spirituality and Health* [online]
4. Quave, C.L. (November 20, 2021). [Hunting for Medicines Hidden in Plants](#). *The Wall Street Journal* [online and in print]
5. Quave, C.L. (November 18, 2021) [Drugs from nature: ethnobotany as a strategy for antimicrobial drug discovery](#). *Biotechniques* [online and in print]
6. Quave, C.L. (November 15, 2021) [Wild Plants and the Food-Medicine Continuum](#) *Herbal History Research Network* [online]
7. Quave, C.L. (Summer 2021) [My Pandemic Zoo](#). *Emory Medicine Magazine* [online and in print]
8. Quave, C.L. (August 2020) [Oleandrin is a deadly plant poison, not a COVID-19 cure](#). *The Conversation*
9. Walker, K., N. Canales, C.L. Quave (March 2020) [No, cinchona bark is not a cure for coronavirus](#). *The Conversation*

10. Quave, C.L. (January 2019) [Fieldwork with Family... and a Fake Leg](#). *American Society of Pharmacognosy Newsletter*, Winter 2018 Issue, 54(4): 31-33.
11. Quave, C.L. (October 2017) [Green fingers: How much untapped potential do plants have for both discovering and manufacturing drugs?](#) *The Medicine Maker* magazine.
12. J. Rose, G. Islam, C.L. Quave (May 7, 2012). **Global controversies in bioprospecting**. *Caros amigos* (Brazilian newspaper)

Published Abstracts

1. Luk, K.** G. Wrenn, K.H. Chen, C. L. Quave, S.C. Chen. (2017) **Medical system distrust and factors that drive disparities in pruritus quality of life among Asian Americans**. *Journal of Investigative Dermatology* DOI: 10.1016/j.jid.2017.02.369
‡ Contributed to study design and revising the abstract.
2. Luk, K., A. Pijaux, K.H. Chen, G. Wrenn, C. Quave, S. Chisolm, S. Kini, S. Chen (2017) **Differences in factors that drive pruritus quality of life between Asian Americans and other races**. *Acta Dermato-Venerologica* 97(8): 1044.
‡ Contributed to study design and revising the abstract.
3. Quave, C.L. (2016) **Answering the call to arms: Tools for assessing the anti-infective potential of natural products in a time of rising antibiotic resistance**. *Planta Medica* 82 - OA38. DOI: 10.1055/s-0036-1578608
4. Nelson, K. J. Lyles**, A. Saitta, C.L. Quave. (2016). **Discovery of plants and fungi with antibacterial activity against *Propionibacterium acnes***. *Journal of Investigative Dermatology*. 136(5): S1, S90. DOI: <http://dx.doi.org/10.1016/j.jid.2016.02.546>
5. Lyles, J.T.**, J.S. Kavanaugh, K. Nelson, C.P. Parlet, H.A. Crosby, K.P. Heilmann, A.R. Horswill, C.L. Quave. (2016) [Structure elucidation of ursene and oleanene derivatives from *Castanea sativa* \(European Chestnut\) that inhibit *Staphylococcus aureus* virulence and pathogenesis](#). *Planta Medica* 82- PC44. DOI: 10.1055/s-0036-1578746
6. Quave, C.L., J. Lyles**, K. Nelson, J.S. Kavanaugh, C. Parlet, H. Crosby and A. Horswill. (2015). **Secrets from the past: Natural products and the future of topical anti-infectives**. *Journal of Investigative Dermatology* 135(S1): S94 (P545).
7. Quave, C.L. (2012). [Ethnobotanical clues for the discovery of natural product mediators of microbial pathogenesis](#). *Planta Medica* 78: P-46. DOI: 10.1055/s-0032-1320593

Prior to Independent Career

8. Ordoñez, P., C.L. Quave, W.F. Reynolds, K.I. Varughese, B.B. Malagon, M.S. Smeltzer, and C.M. Compadre. (2011). **Sesquiterpene lactones of *Gnoxys verrucosa* and their anti-MRSA activity**. *Planta Medica* 77: P-34.
‡ Led the antibacterial aims, contributed to writing and revising the abstract.
9. Hobby, G. C.L. Quave, C. Compadre, K. Beenken, and M.S. Smeltzer. (2011). **Inhibition of biofilm formation in *Staphylococcus aureus* Isolates by *Quercus cerris* extracts**. *Planta Medica* 77: P-35.
‡ Directed the antibacterial aims, contributed to writing and revising the abstract.
10. Quave, C.L., C. Compadre, H. Hendrickson, K. Beenken, M.S. Smeltzer. (2011). ***Staphylococcus aureus* biofilm inhibition by a phenolic glycoside-rich extract of *Rubus ulmifolius***. *Planta Medica* 77: P-33.
11. Quave, C.L. and M.S. Smeltzer. (2009). **Anti-Biofilm Activity of *Marrubium vulgare* L. (Lamiaceae) Extract on MRSA**. *Planta Medica* 75: P-96.

12. Quave, C.L., LR.W. Plano, and B.C. Bennett (2008). **Quorum sensing inhibiting activity of *Schinus terebinthifolius* Raddi (Anacardiaceae) extracts against MRSA.** *Planta Medica* 74: P-43.

Works in Review/Revision/Progress or Under Contract

1. Quave, C.L. ***Botanical Medicine and Health***. 470 p. textbook under contract with Wiley Press. Estimated completion date: 2022
2. Verma, S., C.B. Oosthuizen, F. Chassagne, D. Twilley, C.-H. Lin, C.L. Quave, N. Lall. (In Review, *Molecules*). **Synthesis, Antibacterial Activity and Biofilm Selectivity of 8-Hydroxyquinoline Derivatives against *Mycobacterium* and *Staphylococcus***
3. Risener, C.J., S. Woo, T. Samarakoon, M. Caputo, E. Edwards, K. Klepzig, W. Applequist, K. Zandi, S.L. Goh, J.A. Downs-Bowen, R.F. Schinazi, C.L. Quave (In Review, *Scientific Reports*) **Botanical inhibitors of SARS-CoV-2 viral entry: A phylogenetic perspective.**

TEACHING EXPERIENCE

Undergraduate Teaching

EMORY UNIVERSITY, Atlanta, GA

HLTH 411: Many Diseases, Few Causes

Taught: Fall 2011, Fall 2012. Contact hours: 45 per semester.

Upper undergraduate lecture course covering the intersections between immune system function, oxidative stress, inflammation as they relate to human health and disease. Class activities included guest lectures and group projects to create informational short videos.

Enrollment: 17 and 20 students in 2011 and 2012, respectively. Co-taught with Dr. Michelle Lampl. Cross-listed as ANT 341. Credit hours: 4.

HLTH 440: Botanical Medicine and Health

Taught: Fall 2011, Spring 2012, Spring 2013, Spring 2015, Fall 2017, Fall 2018, Fall 2019, Fall 2020, and Fall 2021. Contact hours: 45 per semester.

Upper level undergraduate course covering the role of botanical natural products in the history of medicine, pharmacology and human health in general. I developed this course as a new feature of the Human Health program. Class activities include guest lectures, a field trip to the Atlanta Botanical Gardens, integration of Emory Herbarium resources, a capstone paper and presentation, and numerous hands-on class demos and discussion-based activities. This course was also featured in an article featured in *Emory Magazine* and the *Emory Report* (2017/2018).

Enrollment: 14, 27, 18, 29, 63, 46, 62, 58, 53, 69 in Fall 2011, Spring 2012, Spring 2013, Spring 2015, Fall 2017, Fall 2018, Fall 2019, Fall 2020, and Fall 2021 respectively. Previously listed as HLTH 385/ANT 385 (2011, 2012, 2013), HLTH 485/BIOL 485 (2015). Currently cross-listed as BIOL485. Credit hours: 4 (2011-2013); 3 (2015-onward).

HLTH 410: Predictive Health Challenges

Taught: Spring 2012. Contact hours: 45 per semester.

Upper level seminar course that I developed as a guided tour of evidence based complementary and alternative medicine. Class activities include student presentations of the literature, interviews with

CAM practioners, and a final paper and presentation on select topics of relevance to CAM and human health.

Enrollment: 7 in Spring 2012. Credit hours: 4. Co-taught with Dr. Michelle Lampl.

HLTH 340: Food, Health and Society

Taught: Spring 2012, Fall 2015, Spring 2018, Spring 2019, Spring 2020, Spring 2021, Fall 2021.
Contact hours: 45 per semester.

Upper level undergraduate course that I developed as a new feature for the Human Health program at Emory. The course covers the relationships between food, health and culture through a lens of chemistry and human physiology. Class activities include guest lectures (including authors and chefs), hands-on class demos, class group discussion activities, field trip to the Atlanta Botanical Gardens, and a community-based engagement activity with organizations in Atlanta engaged in food security and food sovereignty activities.

Enrollment: 21, 64, 66, 123, 84, and 136, 84 in 2012, 2015, 2018, 2019, 2020, 2021, and 2021 respectively. Cross-listed as ANT 385 and BIOL385. Credit hours: 4 in 2012; 3 from 2015 onward.

HLTH 190: Health and the Natural World

Taught: Spring 2017. Contact hours: 45 per semester.

Freshman seminar course that I developed as an outcome of the QEP: Nature of Evidence program to better integrate evidence into classroom learning. Class activities included group discussions of reading, nature walks in Lullwater park, use of the Readux platform for annotation of herbal texts, lessons in botanical illustration and photography, collection and processing of herbarium specimens, and video presentations for individual projects on the linkage between humans, health and the natural world.

Enrollment: 17 in Spring 2017. Credit hours: 3.

UNIVERSITY OF ARKANSAS AT LITTLE ROCK, Little Rock, AR

BIOL 1401: Science of Biology

Taught: Fall 2010; Spring 2011

This is an introductory biology course, tailored towards non-majors. The process of science, including observation, evaluation, and predictions, is applied to the understanding of biological principles. Illustration of the methods of science in the study of major biological concepts, including the cell theory, energy transformation, inheritance, and the theory of evolution. Selected biological systems will be surveyed to compare life forms and to examine related human issues. Includes lab.

Enrollment: 25 and 27 in Fall 2010 and Spring 2011, respectively. Credit hours: 4.

BIOL 2401: Microbiology with Lab

Taught: Spring 2010, Summer 2010, Spring 2011, Summer 2011, Fall 2011, Spring 2012, Summer 2012, Fall 2012, Spring 2013, Summer 2013, Fall 2013, Spring 2014, Summer 2014, Fall 2014, Spring 2015, Summer 2015, Fall 2015, Spring 2016, Summer 2016, Fall 2016, Spring 2017, Summer 2017, Fall 2017, Spring 2018, Summer 2018.

I developed a web-based version of microbiology with lab, tailored towards non-traditional students (working full time or in the military) for UALR. The course covers all topics typically covered in a microbiology lecture based-course (morphology, physiology, and classification of microorganisms; the relationship of microorganisms to biotechnology, medicine, and nursing) with the lab portion based on

theory and interpretation of data. In addition to exams and lab reports, students must determine the identity of an unknown organism based on experimental clues and write a final lab report.

Enrollment: 30, 21, 21, 30, 14, 26, 24, 25, 28, 28, 29, 30, 26, 25, 31, 25, 26, 29, 31, 30, 26, 22, 26, 33 and 22 in Spring 2010, Summer 2010, Spring 2011, Summer 2011, Fall 2011, Spring 2012, Summer 2012, Fall 2012, Spring 2013, Summer 2013, Fall 2013, Spring 2014, Summer 2014, Fall 2014, Spring 2015, Summer 2015, Fall 2015, Spring 2016, Summer 2016, Fall 2016, Spring 2017, Summer 2017, Fall 2017, Spring 2018, Summer 2018 respectively. Credit hours: 4.

BIOL 4399: Medical Botany with Lab

Taught: Summer 2010, Summer 2011, Summer 2012, Summer 2013, Summer 2014, Summer 2015, Summer 2016, Summer 2017, Summer 2018

I developed a web-based version of Medical Botany with lab, tailored towards non-traditional students (working full time or in the military) for UALR. The course covers topics pertinent to the pharmacological activity of plant natural products on different body systems. Students also engage in lab exercises that include plant collection experiments and market surveys. In addition to exams and lab reports, students must prepare a final paper in the form of a medicinal plant monograph and write a final lab report.

Enrollment: 13, 9, 15, 12, 16, 12, 14, 16, and 17 in Summer 2010, Summer 2011, Summer 2012, Summer 2013, Summer 2014, Summer 2015, Summer 2016, Summer 2017, and Summer 2018, respectively.

Graduate Teaching

LANEY GRADUATE SCHOOL AT EMORY UNIVERSITY, Atlanta, GA

IBS 568: Principles of Anti-infectives, MMG Program, Lecture on “Harnessing nature to identify and optimize novel antimicrobials”, Fall 2018 and Fall 2020 (2 contact hours)

IBS532: Pharmacology II, MSP program, Lecture on “Natural products pharmacology”, Spring 2016 (3 contact hours); Spring 2017 and 2018 (1.5 contact hours per semester)

PSI 610-00P: Scholarly Integrity course, Lecture on “Ethics in international research”, 2013, 2 contact hours

IBS 531: Introduction to Molecular and Systems Pharmacology 1

Taught: Fall 2018 and Fall 2020 (Microbiology Block Leader);

As the chair of the MSP Curriculum Committee, I led the redesign of IBS 531 to create a block structured variable credit course tailored to MSP 1st year graduate students (but also open to other Laney graduate school students to enroll in specific blocks). I also taught the Intro to Microbiology lecture for the block (contact time 2.5 hours, Fall 2018)

Enrollment: 6 Credit hours: Variable, 1-10 (Microbiology block is 1 credit hour, 18 contact hours total)

Microbiology lecture on antibiotics, 2 contact hours. Fall 2018, 2019, 2020

EMORY UNIVERSITY SCHOOL OF MEDICINE, Atlanta, GA

M1 Dermatology Week Lecture, “Microbiology of the Skin”. Taught in Spring 2014, 2015, 2016, 2017, 2019, 2020, 2022. Contact hours: 1 contact hour per semester.

GEORGIA INSTITUTE OF TECHNOLOGY, Atlanta, GA

Science Communication Graduate Course, Lecture on “Social Media in #SciComm”, Fall 2018 (2 contact hours)

Post-Graduate Teaching

EMORY UNIVERSITY SCHOOL OF MEDICINE, Atlanta, GA

Dermatology Resident Journal Club

- Workshop on Botanicals in Dermatology, 1 contact hour, 2018
- Natural Products in Dermatology, 1 contact hour, 2016
- Developments in Anti-infective Therapeutics, 1 contact hour, 2014

Training Program Membership and Teaching

Graduate and Post-doctoral Fellowship Programs

- Antimicrobial Resistance and Therapeutic Discovery Training Program at Emory University, Training Faculty, 2014-present
- Fellowships in Research and Science Teaching (FIRST) – Post-doctoral training program, Training Faculty, 2014-present
- Pharmaceutical Sciences Training Program at Emory University, Training Faculty, 2014-present

Doctoral Programs

- Microbiology and Molecular Genetics, Graduate Division of Biological and Biomedical Sciences at Emory University, Training Faculty, 2014-present
- Molecular and Systems Pharmacology, Graduate Division of Biological and Biomedical Sciences at Emory University, Training Faculty, 2014-present

Undergraduate Fellowship Programs

- Initiative to Maximize Student Development (IMSD) program at Emory, Training Faculty, 2014-present
- Scholarly Inquiry and Research at Emory (SIRE) program, Training Faculty, 2013-present
- Emory Summer Undergraduate Research Experience (SURE) program, Training Faculty, 2012-present

Supervisory Teaching and Research Mentorship

Direct Supervision of Visiting International Scholars

1. Amira Salim, Ph.D. Candidate, University of Sassari, Italy. 2022 (9 month lab stay)
2. Airy Gras, Ph.D., Postdoc, Barcelona University, Barcelona, Spain. Margarita Salas Fellow, 2021-2022 (18 month lab stay)
3. Rahmat Wali, Ph.D. Candidate, PMAS Arid Agriculture University, Pakistan. Pakistan Scholarship Fellow, 2019-2020 (6 month lab stay).
4. Roula Abdel-Massih, Ph.D., University of Balamand, Tripoli, Lebanon, The World Academy of Sciences (TWAS) Fellowship, 2019, (3 week lab stay).
5. Mostafa Elachouri, Ph.D., Mohammad I University, Oujda, Morocco, Fulbright Scholar, 2019 (3 month lab stay)
6. Yisel Carrillo Tarazona, Masters Candidate, University of Oklahoma, student from Colombia, 2019, (3 week stay)

7. Likuan Liu, Ph.D., Qinhai Normal University, Qinhai, P.R. China, Chinese Scholarship Fellow, 2019 (1 year lab stay)
8. Fabien Schultz, Ph.D. Candidate, Technical University of Berlin / Neubrandenburg University of Applied Sciences. Fulbright Scholar, 2018-2019 (4 month lab stay)
9. Huaqiao Tang, Ph.D. Candidate, Sichuan Agricultural University, Chengdu, P. R. China. Chinese Scholarship Fellow, 2017-2019 (2 year lab stay).
10. Rozenn Pineau, Masters Candidate, University of Montpellier, France, 2017-2018 (1 year lab stay).
11. Muhammad Faraz Khan, Ph.D. Candidate, 2017, PMAS Arid Agriculture University, Pakistan. Pakistan Scholarship Fellow, 2017 (6 month lab stay).
12. Angelle Bullard-Roberts, Ph.D., Trinidad, 2016-2017 (1 year lab stay).
13. Avni Hajdari, Ph.D., Assistant Professor, University of Prishtina, Prishtina, Kosovo, Funded by the US State Department, 2015 (1 month lab stay).
14. Bledar Pulaj, Ph.D. Candidate, University of Prishtina, Prishtina, Kosovo, Funded by the US State Department, 2015 (3 month lab stay).

Direct Supervision of Medical Resident and Fellow Research

1. Ivrose Joseph, M.D., OB/GYN Fellow Research Project “A potential mechanism of recurrent UTI in the urogynecologic population”, 2021-present
2. Kerac Falk, M.D., OB/GYN Fellow Research Project “Biofilm production by *E. coli* strains isolated from female patients with recurrent UTIs”, 2019-2021
3. Emily Gurnee, M.D., Dermatology Resident Research Project “Virulence in the skin microbiome and relevance to atopic dermatitis severity”, 2015-2018
4. Jonathan Bonchak, M.D., Dermatology Resident Research Project “Botanicals for pruritus”, 2017
5. Mamta Jhaveri, M.D., Dermatology Resident Research Project “Botanicals used for dermatologic disorders in Kosovo”, 2014-2015

Direct Supervision of Medical Students

1. Bianca Lec, Special Topics Elective at Emory University School of Medicine, 2022
2. Mariko Peterson, Special Topics Elective at Emory University School of Medicine, 2022

Direct Supervision of Postdoctoral Research

1. Sunmin Woo, Ph.D. “Molecular network analyses of plant natural products by LC-MS/MS.” 2021-
2. Gina Porras-Brenes, PhD. “Isolation and structural elucidation of plant natural products.” 2018-2021
3. François Chassange, PhD. “Ethnopharmacological evaluation of anti-infective medicinal plants.” 2018-2020. Current Position: Chargé de Recherche (Research Group Leader) at the Institut de Recherche pour le Développement France, IRD (French National Research Institute for Sustainable Development).
4. James Lyles, PhD. “Chemical composition of antivirulence therapeutics from *Castanea sativa*.” 2014-2017. Current position: Senior Scientist, Lifemine Therapeutics.

Ph.D. Students Directly Supervised

1. Marissa Duckett, Population Biology, Ecology, and Evolution, 2021, Rotation Student

2. Jarreth Caldwell, Microbiology and Molecular Genetics, 2020, Rotation Student
3. Will Crandall, Molecular and Systems Pharmacology, 2020, Rotation Student
4. Benjamin Siciliano, Molecular and Systems Pharmacology, 2020, Rotation Student
5. Cheyenne Lee, Microbiology and Molecular Genetics, 2020, Rotation Student
6. Caitlin Risener, Molecular and Systems Pharmacology, 2020-present, Ph.D. Candidate, anticipated graduation 2024
7. Bethany Bogan, Molecular and Systems Pharmacology, 2019-2020, Rotation Student
8. Monica Cortez, Biochemistry, Cell and Developmental Biology, 2019, Rotation Student
9. Lewis Marquez, Molecular and Systems Pharmacology, 2019-present, Ph.D. Candidate, anticipated graduation 2023
10. German Vargas, Microbiology and Molecular Genetics, 2017, Rotation Student
11. Kelly Lehman, Microbiology and Molecular Genetics, 2017, Rotation Student
12. Nicholas Harbin, Molecular and Systems Pharmacology, 2017, Rotation Student
13. Emma D'Agostino, Biochemistry, Cell and Developmental Biology, 2016, Rotation Student
14. Danielle Cicka, Molecular and Systems Pharmacology, 2016, Rotation Student
15. Akram Salam, Molecular and Systems Pharmacology, 2016-present, Ph.D. Candidate, anticipated graduation 2020
16. Roxanna Rodriguez, Microbiology and Molecular Genetics, 2015, Rotation Student
17. Ian Buller, Rollins School of Public Health, 2014, Rotation Student
18. Nikki Pendleton, Rollins School of Public Health, 2014, Rotation Student

Supervision of Doctoral Dissertation

1. Will Crandall, Molecular and Systems Pharmacology, Emory University (Active)
2. Caitlin Risener, Molecular and Systems Pharmacology, Emory University (Active)
3. Lewis Marquez, Molecular and Systems Pharmacology, Emory University (Active)
4. Akram Salam, Molecular and Systems Pharmacology, Emory University. Obtained Ph.D. 12/2020.

External Examiner for Doctoral Dissertation

1. Prosper Jambwa. Faculty of Veterinary Science, University of Pretoria, South Africa. Advisor: Prof. L.J. McGaw. (Active). 12/2021. External Examiner.
2. BD Payne, Medicinal Plant Sciences, Faculty of Natural and Agricultural Sciences, University of Pretoria, South Africa. Advisor: Dr. Namrita Lall. External Examiner.
3. Valerio Baldelli, Scienze e Tecnologie Biomediche, Universita degli Studi Roma Tre, Rome, Italy. Advisor: Prof. Giordano Rampioni. External Examiner.
4. Ashton Welcome, Department of Botany and Plant Biotechnology, University of Johannesburg, Johannesburg, South Africa. Advisor: Prof. Ben-Erik van Wyk. "An inventory and analysis of the food plants of southern Africa". (Active)MN de Canha, Medicinal Plant Sciences, Faculty of Natural and Agricultural Sciences, University of Pretoria, South Africa. Advisor: Dr. Namrita Lall. Obtained PhD 08/2019. External Examiner.

Member of Doctoral Dissertation Committee

1. Monica Reece, Molecular and Systems Pharmacology Program, Emory University. Advisor: Christina Gavegnano (Active).
2. Bijan Mahoubi, Molecular and Systems Pharmacology Program, Emory University. Advisor: Baek Kim (Active).

3. John de la Parra, Ph.D. Department of Chemistry and Chemical Biology, Northeastern University, Boston, MA. Advisor: Dr. Bill Hancock. "Development of novel analytical methods for the study of ethnobotanical diabetes treatments and diabetes biomarkers". Obtained Ph.D. 05/2018. Current job: Manager, Manager, Global Food Portfolio for the Food Initiative, The Rockefeller Foundation.
4. Lauren Fleischer, Molecular and Systems Pharmacology Program, Emory University. Advisor: Dr. Trent Spencer Obtained PhD 12/2019.
5. Committee Chair. Michelle Su, Microbiology and Molecular Genetics Program, Emory University, Advisor: Dr. Tim Reed. Obtained PhD 08/2020.
6. Bhuwan Chhetri, Department of Chemistry, Georgia Institute of Technology, Atlanta, GA. Advisor: Dr. Julia Kubanek. (Active)
7. Committee Chair. Vishnu Raghuram. Microbiology and Molecular Genetics Program, Emory University, Advisor: Dr. Tim Reed and Dr. Joanna Goldberg.

Member of Masters Thesis Committee

1. Cherie Grant, Behavioral Sciences and Health Education, Rollins School of Public Health, Emory University. Advisor: Dr. Kimberly Arriola.

Undergraduate Scholars Directly Supervised

1. Stephanie Garcia, 2021-, Volunteer (Laboratory)
2. Samuel Keyes, 2021-2022, Volunteer (Laboratory)
3. Mathew Menkhart, 2021-, Volunteer (Laboratory)
4. Cutler Cannon, 2021-2022, Volunteer (Laboratory)
5. Janissa Fuentes, 2021 SOAR Fellow (Laboratory)
6. Alaina Waters, 2021, SOAR Affiliate (Laboratory)
7. Jasleen Narula, 2021-2022, SOAR Affiliate (Laboratory)
8. Sophia Boraschi Umana, 2021-, SOAR Affiliate (Laboratory)
9. Ben Kittleson, 2021-, SIRE Fellow (Laboratory)
10. Nadine Jarrar, 2021-, SIRE Fellow (Laboratory)
11. Andrea Snoddy, 2021-, SIRE Fellow (Laboratory & Herbarium)
12. Cindy Fang, 2021-, Volunteer, SURE Fellow (Laboratory)
13. Tito Tomei, 2020, Volunteer (Herbarium)
14. Alice Yang, 2020, Volunteer (Herbarium)
15. Andrew Pahnke, 2020, Volunteer (Herbarium)
16. Elena Eubanks, 2020, Volunteer (Herbarium)
17. Ana Valez, 2020, Volunteer (Herbarium)
18. Osayamen Atekha, 2019, Volunteer (Herbarium)
19. Ana Felicia Sinsuan, 2019, Volunteer (Herbarium)
20. Bijia Wang, 2019-2021, Volunteer (Herbarium), Honors Research in Human Health (Laboratory)
21. Fernanda Espinosa Nunes, 2019, SOAR Fellow (Laboratory)
22. Danielle Carroll, 2019-2020, Volunteer, Honors Thesis in Neuroscience and Behavioral Biology (Laboratory)
23. Nia Dubon-Robinson, 2019, Volunteer (Herbarium)

24. Emily Edwards, 2019-2022, Volunteer (Herbarium and Laboratory), Research for credit in Anthropology
25. Leah Scott, 2019-2020, Volunteer (Herbarium and Laboratory)
26. Sarah Shabih, 2019-2021, Volunteer (Herbarium and Laboratory)
27. Claire Torre, 2019-2020, Volunteer (Herbarium)
28. Rachel Deininger, 2018-2020, Volunteer (Herbarium)
29. Anjali Mann, 2018-2020, Volunteer (Herbarium)
30. Georgia Spies, 2018-2020, Volunteer (Herbarium)
31. Gloria Jung, 2018-2020, Volunteer (Herbarium)
32. Daisy Li, 2018-2020, Volunteer (Herbarium and Laboratory)
33. Tanika Deuskar, 2018-2020, Volunteer (Herbarium)
34. Courtney Andrew, 2018-2019, Volunteer (Herbarium and Laboratory)
35. Anna Wassel, 2018-2019, Volunteer (Herbarium)
36. Michelle Lin, 2018-2020, Volunteer (Herbarium and Laboratory)
37. Max Bao, 2018-2020, Volunteer (Herbarium and Laboratory), Research for credit in Chemistry
38. Min Ji Choi, 2018-2020, Volunteer, Research for Credit in Chemistry, Honors Thesis in Chemistry (Laboratory)
39. Ella Vardeman, 2018-2019, SURE fellow (Laboratory & Herbarium)
40. Wayne Wen, 2018, Volunteer (Laboratory)
41. Yixin Xu, 2018-2019, Volunteer, Research for Credit in Chemistry, Honors Thesis in Chemistry (Laboratory)
42. Apple Liu, 2018-2019, Volunteer (Laboratory & Herbarium)
43. Lily Zhong, 2018-2020, Volunteer, Research for Credit in Biology (Laboratory & Herbarium)
44. Kat Bagger, 2018-2020, Summer field and lab research supported by Garden Club of America Zeller Medicinal Botany Fellowship, Volunteer (Laboratory & Herbarium)
45. James McCord, 2018-2019, Volunteer (Herbarium)
46. Prathyusha Kandala, 2018-2020, Volunteer (Herbarium)
47. Will Fan, 2018-2020, Volunteer (Herbarium)
48. Zachary Cooper, 2018-2019, Volunteer, Research for Credit in Human Health (Laboratory & Herbarium)
49. Triston Charlson, 2018, Volunteer (Herbarium)
50. Annie Schiffer, 2017-2019, Volunteer (Laboratory & Herbarium)
51. Sarah Hanson, 2017-2020, Volunteer, Research for Credit in Chemistry (Laboratory & Herbarium)
52. Toyin Balugin, 2017-2020, Volunteer (Laboratory & Herbarium)
53. Asma Syed, 2017-2018, Volunteer (Laboratory)
54. Mickie Xu, 2017-2020, Volunteer; Research for Credit in Biology (Laboratory & Herbarium)
55. Nicholas Richwagen, 2017-2020, Volunteer; Research for Credit in Biology (Laboratory & Herbarium)
56. Afam Maduka, 2017-2019, Volunteer; SURE fellow, Work study (Laboratory)
57. Olivia Lowery, 2017-2020, Volunteer (Herbarium)
58. Emily Maccabee, 2017-2019, Volunteer; Research for Credit in Human Health (Laboratory)
59. Maria Lopera, 2017, Volunteer (Laboratory & Herbarium)
60. Thomas Lampeter, 2017, Work-study (Laboratory & Herbarium)
61. Andrew Bi, Volunteer (Laboratory & Herbarium)
62. Jordan Swanier, IMSD fellow (Herbarium)

63. Kathleen Lee, Volunteer; Research for Credit in Biology (Herbarium)
64. Laura Harlan, 2017-2018, Volunteer (Herbarium)
65. Stephanie Pintas, 2017-2018, Honors Thesis in Human Health (Laboratory)
66. Sarah Kreulen, 2017, Volunteer (Herbarium)
67. Kelley Lou, 2016-2017, SIRE fellow (Laboratory)
68. Kousha Hedayati, 2016-2017, Volunteer (Herbarium)
69. Claudia Tan, 2016-2020, Volunteer (Herbarium)
70. Jubilee Park, 2016-2018, SIRE fellow, Volunteer, Research for Credit in Environmental Sciences (Laboratory & Herbarium)
71. Brian Son, 2016-2017, Volunteer (Herbarium)
72. Boya (Jennie) Sun, 2016-2017, Volunteer (Herbarium)
73. Monique Salazar, 2016-2018, Volunteer, Research for Credit in Human Health (Laboratory)
74. James Du, 2016-2017, Volunteer (Laboratory & Herbarium)
75. Joan Shang, 2016-2017, Honors Thesis in Biology (Laboratory)
76. Sandeep Sai Voleti, 2016-2018, Volunteer, Research for Credit in Biology (Laboratory)
77. Naomi Maisel, 2016, Volunteer (Laboratory)
78. Joshua Oliver, 2016, Volunteer (Laboratory)
79. Jenny Feng, 2016-2019, Volunteer, SURE fellow, Research for Credit in Biology
80. Aidan Williams, 2016-2017, Volunteer (Laboratory)
81. Xinying Jiang, 2016-2017, Volunteer (Herbarium)
82. Wenyeng Zhu, 2016-2017, Volunteer (Herbarium)
83. Nandar Soe, 2016-2017, Volunteer (Herbarium)
84. Lindita Camaj, 2016-2017, Volunteer (Herbarium)
85. Julie Fowler, 2016-2017, Volunteer (Herbarium)
86. Karin Chow, 2016-2017, Volunteer (Herbarium)
87. Jessie Moore, 2015-2018, Work-study (Laboratory & Herbarium)
88. Nathan Chou, 2015-2017, Volunteer (Laboratory & Herbarium)
89. Chengcheng Qui, 2015-2017, SURE Fellow (Laboratory & Herbarium)
90. Matt Mendelsohn, 2015-2017, Volunteer, Honors Thesis in Human Health (Laboratory)
91. Jennifer Ko, 2015-2017, Volunteer (Laboratory)
92. Grace Zhang, 2015-2017, SIRE Fellow (Laboratory)
93. Emma Balouzian, 2015-2017, Volunteer (Laboratory & Herbarium)
94. Austin Kim, 2015-2017, Volunteer, SURE fellow, Research for Credit in Chemistry (Laboratory & Herbarium)
95. Adam Mackie, 2015-2016, Volunteer, Research for Credit in Human Health (Laboratory)
96. "Xena" Xinyi Huang, 2015-2016, Research for Credit in Biology, Honors Thesis in Biology (Laboratory)
97. Jessie Cai, 2015-2016, SURE fellow, Research for Credit in Biology (Laboratory)
98. Justin Robeny, 2015-2017, Volunteer, Research for Credit in Human Health (Laboratory)
99. Tracy Li, 2015-2017, Volunteer, Research for Credit in Neuroscience & Behavioral Biology (Laboratory)
100. Emily Mapelli, 2015, Volunteer (Laboratory)
101. Micah Dettweiler, 2014-2017, SIRE fellow, SURE fellow, Honors Thesis in Biology (Laboratory & Herbarium)
102. Nami Motthagi, 2015, Research for Credit (Laboratory)
103. Eugenia Addie-Noye, 2014-2015, IMSD fellow (Laboratory)

104. "Rina" Na Won Lee, 2014-2015, Volunteer, Research for Credit in Biology (Laboratory)
105. William Reis, 2014, Volunteer (Laboratory)
106. Paula Tyler, 2013-2015, Volunteer, SIRE fellow, Research for Credit in Chemistry (Laboratory & Herbarium)
107. Matt Dorian, 2013-2015, Volunteer, SIRE fellow, SURE fellow (Laboratory)
108. Amelia Muhs, 2013-2015, Volunteer, SIRE fellow, SURE fellow (Laboratory)
109. Janessa Aneke, 2013-2014, Volunteer, Research for Credit in Biology (Laboratory)
110. Sarah Meadows, 2013-2014, Volunteer (Laboratory)
111. Boru Wang, 2013-2014, Volunteer, Research for Credit in Chemistry (Laboratory)
112. Sarah Abrahams, 2013, SURE fellow (Laboratory)
113. Sam Anderson, 2013-2015, Volunteer, SURE fellow (Laboratory)
114. Parth Jariwala, 2013-2015, Volunteer, SIRE fellow, SURE fellow, Honors Thesis in Chemistry (Laboratory)
115. Michelle Paine, 2012-2014, Volunteer (Laboratory)
116. Sandy Jiang, 2012-2014, SURE fellow, Honors Thesis in Anthropology (Laboratory)
117. Ian McCullough, 2012, Supervision of review paper
118. Peter Kucheryavyy, 2012, Supervision of review paper
119. Elise Viox, 2012, Volunteer (Laboratory)
120. Sarah Mosby, 2012, Volunteer (Laboratory)

Undergraduate Honors Theses Directly Supervised

1. Emily Edwards, Recipient of Highest Honors in Anthropology, 2022
2. Bijia Wang, Recipient of Highest Honors in Human Health, 2021
3. Michelle Lin, Recipient of Highest Honors in Biology, 2020
4. Danielle Carrol, Recipient of Highest Honors in Neuroscience and Behavioral Biology, 2020
5. Lily Zhong, Recipient of High Honors in Biology, 2020
6. Min Ji Choi, Recipient of High Honors in Chemistry, 2020
7. Yixin "Jimmy" Xu, Recipient of High Honors in Chemistry, 2019
8. Stephanie Pintas, Recipient of Highest Honors in Human Health, 2018
9. Matthew Mendelsohn, Recipient of Highest Honors in Human Health, 2017
10. Micah Dettweiler, Recipient of Highest Honors in Biology, 2017
11. Joan Shang, Recipient of Highest Honors in Biology, 2017
12. Xinyi Huang, Recipient of Highest Honors in Biology, 2016
13. Amelia Muhs, Recipient of Highest Honors in Anthropology, 2015

Member of Honors Thesis Committee

1. Paul Young, Recipient of Highest Honors in Biology. "Elucidating the Structure and Function of Heme Pocket Residues in Bacterial Diguanylate Cyclase-Containing Globin-Coupled Sensors" Advisor: Dr. Emily Weinert, 2018
2. Parth Jariwala, Recipient of Highest Honors in Chemistry. "Synthesis of ellagic acid glycoside derivatives found in *Rubus ulmifolius*" Advisor: Dr. Emily Weinert, 2017
3. Sandy Jiang, Recipient of Highest Honors in Anthropology. Advisor: Dr. Michelle Lampl, 2014

Medical Students Directly Supervised

1. Shakeria LaWanda Stewart, 2021, Summer research (12 week rotation) in microbiology/dermatology; Morehouse School of Medicine Biomedical Research Program
2. Nadia Irfan, 2019, Summer research (11 week rotation) in microbiology/dermatology; University of Toledo Medical School

High School Students Directly Supervised

1. Simone Meyer, 2019, Summer Herbarium volunteer, Decatur High School, Atlanta, GA
2. Benjamin Hecker, 2019, Science student, summer herbarium research, from Lakeside High School, Atlanta, GA
3. James Jabara, 2019, Science student pre-college program, summer research in phytochemistry, from Walt Whitman High School, Bethesda, MD.
4. Sofia Garrido-Fajardo, 2018, Science student from Scarsdale High School in New York, spent summers in lab for scientific research training

Laboratory Technicians Directly Supervised

1. Kate Nelson, 2012-2017, Current position: PharmD graduate program (University of Washington)
2. Brandon Dale, 2017-2018, Current position: MD/PhD Program (Mount Sinai)
3. Monique Salazarm 2018-2019,
4. Micah Dettweiler, 2018-2020, Current position: University of Florida PhD program in Agronomy
5. Marco Caputo, 2018-present

Lectureships and Visiting Professorships

Invited Full Course Visiting Professorships

1. Ethnozymology and human health. University of Gastronomic Sciences, Pollenzo (Bra), Italy. 20 students, 9 contact hours, 7/8-7/11/2014.
2. Graduate student & faculty training in ethnobotanical research. University of Prishtina, Prishtina, Kosovo, 15 students, 30 contact hours, 9/28-10/11/2014

Visiting Course Lectures at Emory University

1. Paradigm shifts in the history of medicine. HLTH 310: Defining Health: Biocultural Perspectives. Emory University, 9/2020
2. Chemistry Discovery Seminar, Emory Oxford College. "Ethnobotany and Anti-infective Drug Discovery", Oxford, GA 9/24/2020.
3. Healthy Kitchens program at Emory (for Emory Employees). "Spice it up! Botanicals for an anti-inflammatory diet", Atlanta, GA 10/2019.
4. Ethnobotany and herbal medicine. HLTH385: Integrative Health. Emory University College of Arts and Sciences, Atlanta, GA, 2/2019.
5. Medicinal plants and drug discovery. Biology 120: Biology for Non-Majors. Emory University College of Arts and Sciences, Atlanta, GA, 1/2019.
6. Spices and the Food-Medicine Continuum. Health 240: Integrative Health. Emory University College of Arts and Sciences, Atlanta, GA, 1/2019, 2/2020.
7. Eat your colors! How plant chemistry is linked to your health. Health 385: Textbook to Table. Emory University College of Arts and Sciences, Atlanta, GA, 11/2018.
8. Medical ethnobotany and the discovery of new drugs to combat antibiotic resistance. HLTH 310: Defining Health: Biocultural Perspectives. Emory University, 9/20/2018.

9. Ethnobotany and the discovery of novel anti-infectives for the post-antibiotic era. Global Health course. Emory University School of Nursing. Atlanta, GA, 10/2017.
10. Example of paradigm shifts today: New approaches to drug therapies. HLTH 310: Defining Health. Emory University, 11/10/2016.
11. Breaking paradigms – targeting virulence for the next generation of antibiotic therapies. HLTH 310: Defining Health. Emory University, 10/8/2015.
12. Emory University Herbarium: Quo vadis? Science Café seminar, Biology Dept., Emory University. 3/3/2015.
13. New directions for anti-infective drug discovery. HLTH 411/ANT 431: Many Diseases, Few Causes, Emory University, 9/2014.
14. Medical ethnobotany and human health. HLTH 310/ANT 339 – Defining Health: Biocultural Perspectives, Emory University, 9/2014.
15. Quorum quenchers for SSTIs. Dermatology Grand Rounds Chalk Talk, Emory University School of Medicine, 8/2014.
16. Italian ethnobotany, Emory Italian Studies Abroad Program, Ginestra, Italy, 6/2014
17. Dangerous herbs: poisons. EH 520: Human Toxicology, Department of Environmental Health, Rollins School of Public Health, Emory University, 10/2013.
18. Italian Ethnobotany, Emory Italian Studies Abroad Program, Ginestra, Italy, 6/2013.

Visiting Course Lectures at Other Institutions

1. **Georgia Institute of Technology**, Graduate Course in Science Communication, “Using Social Media in Science”. 5/2020.
2. **Virginia Institute of Technology**, Plant Taxonomy Course, “Medical ethnobotany and drug discovery”. 5/2019
3. **Virginia Institute of Technology**, Plant Taxonomy Course, “Medical ethnobotany and drug discovery”. 3/2018
4. Ethnobotany and the Post-Antibiotic Era. Botany/American Indian Studies/Anthropology 474 – Ethnobotany. **University of Wisconsin Madison**. 8/2017.
5. Antibiotic drug discovery from natural products. **Osher Lifelong Learning Institute**, Course: Diseases that Changed the World, 1 contact hour, 11/1/2016.
6. Ethnobotany field techniques, **University of Alaska, Fairbanks**. Introduction to Ethnobotany, Fairbanks, AK. 10/7/2015.
7. Medical Botany. **Clark Atlanta University**, Introduction to Ethnobotany, 1 contact hour, 3/24/2015.
8. Medicinal plants for infectious disease. **Clark Atlanta University**, Introduction to Ethnobotany, 1 contact hour, 10/28/2014
9. Italian traditional medicine. Medical Anthropology, **University of Arkansas - Fayetteville**, AR, 1 contact hour, 4/2010.
10. Inhibiting pathogenic *S. aureus* biofilm formation with Mediterranean medicinal plants. **UAMS College of Pharmacy** Seminar Lecture Series, Little Rock, AR, 4/2/2010.
11. Pharmaceutical properties of botanical, Pharmaceutical Biotechnology, PHSC 5623. **UAMS College of Pharmacy**, Little Rock, AR, 11/2009
12. Italian ethnobotany. Economic Botany, **University of Arkansas - Conway**, AR 3 contact hours, 10/2009.
13. Folk illness and healing in the Mediterranean. Medical Anthropology, **University of Arkansas - Fayetteville**, AR, 1 contact hour, 4/2009.

Public Teaching and Outreach Activities

Invited Platform Talks to Restricted Audience

1. Keynote speech, Fairchild Challenge for Middle and High school students (Fairchild Tropical Botanic Gardens). “Green Treasures – Fairchild’s Pharmacy” . Talk title: “Green Treasures! Nature’s Medicine Chest.” Miami, FL. 1/2021.
2. Emory University Rollins School of Public Health, One Health Club, “Traditional medicine as a resource for antimicrobial drug discovery for the post-antibiotic era.” Atlanta, GA. 2/2020.
3. Benjamin Franklin Academy, “Nature’s Medicine Chest”. Atlanta, GA. 11/2019
4. Science Tales and Trails, Science for Georgia, public science talk on “Nature’s Medicine Chest”, GA, USA, 10/2019.
5. Invited short talk, Faculty Showcase for admitted students and family, “Nature’s Medicine Chest” Emory University, GA, USA, 4/2019.
6. Invited talk at the Emory University Emeritus College Luncheon Colloquium, “Exploring Nature’s Bounty: Drug Discovery from Plants used in Traditional Medicine”, Atlanta, GA, USA, 4/22/2019.
7. Invited keynote address at **The Coca Cola Company** Town Hall event (large local venue also broadcast live to a global audience of TCCC employees in R&D – approximately 6,000 people), “Coca-Cola and the Ethnobotany of Taste”, Atlanta, GA, USA, 10/23/2018.
8. Invited short talk, Faculty Showcase for admitted students and family, Emory University, GA, USA, 4/2018. (gave talk at 2 events)
9. Invited short talk, Faculty Showcase for admitted students and family, Emory University, GA, USA, 4/2017.
10. Shakespeare’s Natural World. Exhibit Opening Event. Oxford College, Emory University, GA, USA, 4/2017.
11. “Medicines from Nature: Adventures of a Medical Ethnobotanist”, Keynote address for Science Honors Ceremony, Parkview High School, Lilburn, GA 9/29/2016.
12. Why crop diversity matters: Extinction of the banana. Alpha Tau Omega science outreach event. Emory University, 12/11/2015.
13. “Aspirations for Greatness”, Keynote address for Academic Letter and Lamp of Knowledge Ceremony, Etowah High School, Woodstock, GA, 10/19/2015.
14. Emory Wiseheart Society, special lecture “The Power of Plants”, Roswell, GA 5/31/2015.

Invited Platform Talks Open to Public Audience

1. Invited lecture. “Investigation of the Brazilian Peppertree – from invasive weed to novel antibiotic” **Georgia Herbalist Guild**. 1/19/2020.
2. Keynote public lecture. “Nature’s Medicine Chest.” Part of a trio of talks under “Ethnobotany: Plants, People and Nature” **Royal Botanic Gardens at Edinburgh**. Edinburgh, Scotland. 9/15/2019.
3. Keynote public lecture. “Plants, magic and molecules: The search for new cures from old remedies”. **Cornell Botanic Gardens**, Public Lecture, Ithaca, NY 10/10/2017
4. **Greater Des Moines Botanical Garden**, special lecture “Deadly Cures: Medical Discoveries from Poisonous Plants”, Des Moines, IA 5/17/2015.
5. **Fernbank Museum of Natural History** for the special exhibit “The power of poison”: “Deadly Cures: Medical Discoveries from Poisonous Plants”, Atlanta, GA 3/1/2015.
6. **Atlanta Botanical Gardens** for the Science Café Public Lecture Series: “Medicines from Nature: Adventures of a Medical Ethnobotanist”, Atlanta, GA, 8/2014.

Public Panels, Demos and Workshops for the Community

1. Panelist, Regeneron International Science and Engineering Fair, Women in STEM Panel, [\[Hybrid Webinar\]](#), 5/11/2022
2. Panelist, Regenerative Medicine and Engineering Program, Panel on Innovations in Drug Discovery, [Virtual Webinar]. 5/10/2021.
3. Moderator, Conversation with Dr. Temple Grandin on the release of “The Outdoor Scientist” for the Atlanta Science Festival, [Virtual Webinar]. 3/22/2021.
4. Keynote Speaker. Fairchild Challenge Workshop with Middle and High School students. Fairchild Tropical Botanic Garden. Talk title: “Nature’s Medicine Chest”. Miami, FL. Virtual Webinar. 1/29/2021.
5. Facebook Live event host for “Protecting nature to reduce risk of future pandemics”, presented with Tom Gillespie. Emory University Virtual Event. 1/12/2021.
6. Panelist for “Effects of the Covid pandemic on ethnobotanical fieldwork opportunities - what it means for students,” Discussion hosted by the Student Committee of the Society for Economic Botany. Webinar. 1/12/2021.
7. Panelist for “Unladylike 2020: Pioneers in STEM,” Film screening and discussion on the challenges faced by women in STEM. Webinar livestream hosted by Georgia Public Broadcasting and Science Atlanta. 12/16/2020.
8. Panelist for “Nature’s Dirty Little Secret”, American Chemical Society Webinar, 7/30/2020.
9. Panelist for “Chow: The science of food and not quite food” at DragonCon, Atlanta, GA, 8/31/2019.
10. Panelist for “The Year in Science” at DragonCon, Atlanta, GA, 8/31/2019
11. Panelist for Social Justice Week, “Health and Sanitation Access Faculty Panel”, Emory University, 2/2019.
12. Emory Herbarium Display “Smell the World” and interactive booth at the Atlanta Science Festival Expo Day, 3/26/2018.
13. Emory Herbarium display and interactive booth at Fernbank Museum of Natural History “Adventure Science Day”, 11/2017
14. Invited Panelist, “Innovative Approaches to Antibiotic Resistance”, Atlanta Association of Healthcare Journalists, Atlanta, GA, 10/19/17
15. Invited Panelist, “Differences and Partnerships in Scholarly Collaborations”, Emory University Center for Faculty Development, Atlanta, GA, 10/18/17
16. Public lecture and workshop on ethnobotany in the Aegadian Islands (presented in Italian): “Terra e Acqua: Agricoltura, Artigianato e Vecchi Mestieri in Mostra a Marettimo”, Marettimo, Sicily, Italy, 7/14/2017. [Italian]
17. Emory Herbarium Display “Smell the World” and interactive booth at the Atlanta Science Festival Expo Day, 3/25/2017.
18. Emory Herbarium demo booth, Woodruff Art Center, STEM Theme Family Fun day, 3/19/2017
19. Emory Herbarium Plant systematics workshop for Tibetan monks, 3/15 and 3/22/2017
20. Emory Herbarium tour and info for Emory Toxicology Fellow program (MDs) on identification of poisonous plants, 1/11/2017
21. Panelist for Emory Center for the Study of Human Health Film Screening “Seeds of Time”, 11/16/2016
22. Emory Herbarium demo booth, “Science at Hand Day” at Fernbank Museum of Natural History, 11/15/2016

23. Emory Herbarium activity table at the Emory Sustainable Food Fair, 9/30/2016
24. Science demo “Nature’s Medicine Chest” at the Emory University “Tailgate” expo for Homecoming Weekend, 9/24/2016.
25. Emory Herbarium Display “Smell the World” and interactive booth at the Atlanta Science Festival Expo Day, 3/2016.
26. Invited Panelist. East meets West panel on complementary and alternative medicine. Emory TEDx event. 11/22/2015.
27. Emory Herbarium booth display and activities at Fernbank Museum of Natural History “Science at Hand Day”, 11/7/2015
28. Emory Herbarium display “What’s that Smell? Plant chemistry in our foods, medicines and perfumes” and interactive booth at the Atlanta Science Festival Expo Day, 3/2015.
29. Public lecture and workshop on medical botany in the Mediterranean (presented in Italian): “Pannuzzo di Marva: Medicina Popolare di Pantelleria”, Pantelleria, Sicily, Italy, 6/2014. [Italian]
30. Women in Bio-Atlanta Expert Panelist on Entrepreneurship, Atlanta, GA 10/2013.

Panels, Demos and Workshops for Local Schools and Teachers

1. Invited talk and Q&A with 4th graders, Nickjack Elementary School, Smyrna, GA, 3/16/2021.
2. Emory Herbarium school outreach day, Oak Grove Elementary School, 9/2018
3. Emory Herbarium interactive booth, Sagamore Hills Elementary, Ethnobotany display, 2/8/2018
4. Emory Herbarium interactive booth, Science night, Kittredge Magnet school, Poisonous plants and medicines
5. Emory Herbarium school outreach day, Oak Grove Elementary School, 10/9/2017
6. Emory Herbarium Tour and botany lesson for 6th grade class of Atlanta Montessori International School, 10/26/2016
7. Emory Herbarium school outreach day, Oak Grove Elementary School, 9/2016
8. Guest panelist and demo for AWIS (Advocates for Women in Science) at an outreach event for URM (underrepresented minority) 7th grade girls, 8/2016.
9. Emory Herbarium tour and education day, High school Biology Teachers with the C3MSP training program, 6/15/2016

Educational Displays at Emory University

1. Contributed to the Redux Platform display in the main Emory Woodruff Library, video interview on use of Redux to annotate herbal texts in an undergraduate course and contributed plant materials for the display. 2017-2018.
2. Developed hallway display for Emory University Herbarium; includes herbarium voucher specimens, “Rings of Time” wood display, and dynamic TV display that rotates through hundreds of educational infographics developed by myself and the herbarium team concerning botany. 2015-present
3. Shakespeare’s Natural World Exhibit. This was first on display in the main Emory Woodruff Library, then at the Science Building at Emory Oxford College, and now in the hallway display of the Emory Herbarium. I contributed to the concept design and provision of specimens for the exhibit. 2016-present.

Foodie Pharmacology Podcast Episodes

1. [Eaters of the Dead with Kevin Wetmore](#). 5/2/2022
2. [Q'eqchi' Maya Medicinal Plants with Amanda Thiel](#). 4/25/2022
3. [Hungry Planet with Jody Boyman](#). 4/11/2022
4. [Fasting-Mimicking Diet with Dr. William Hsu](#). 4/4/2022
5. [Technically Food with Larissa Zimberoff](#). 3/14/2022
6. [Famine Foods with Dr. Paul Minnis](#). 2/28/2022
7. [Oca! A Delightful Tuber with Dr. Eve Emshwiller](#). 2/21/2022
8. [Pink Peppercorn Beer with a Hallucinogenic Twist with Dr. Matthew Biber](#). 2/14/2022.
9. [Medicinal Plants & Integrative Medicine with Dr. Stephen Dahmer](#). 2/7/2022.
10. [Eating to Extinction with Dan Saladino](#). 1/31/2022
11. [Wild Waters with Susanne Masters](#). 1/24/2022
12. [Wild Food & Migration with Prof. Andrea Pieroni](#). 1/18/2022
13. [Hooked with Michael Moss](#). 1/10/2022
14. [Fresh Banana Leaves with Dr. Jessica Hernandez](#). 1/3/2022
15. [How We Eat with Paco Underhill](#). 12/13/2021
16. [Probiotics, Gut Health, and the Microbiome with Dr. Rheinallt Jones](#). 10/18/2021
17. [Unfunc Your Gut with Dr. Peter Kozlowski](#). 10/11/2021
18. [The Olive Oil Grove with Lucas Soler](#). 10/4/2021
19. [Ayahuasca & Therapeutic Emplotment with Dr. Hernando Echeverri Sanchez](#). 9/27/2021
20. [A Good Drink with Shanna Farrell](#). 9/20/2021
21. [The Henbane Theory of Berserkers with Dr. Karsten Fatur](#). 9/13/2021
22. [The Secret History of Food with Matt Siegel](#). 8/30/2021
23. [Pickles, Sauerkraut & the Gut Microbiome with Dr. Andrew Flachs](#). 8/16/2021
24. [Around the World in 80 Plants with Jonathan Drori](#). 8/2/2021
25. [Evolutionary Gastronomy with Prof. Jonathan Silvertown](#). 7/19/2021
26. [Where the Wild Things Grow with David Hamilton](#). 7/12/2021
27. [Eat the Weeds with Prof. Philip Stark](#). 7/6/2021
28. [Roundup & The Monsanto Papers with Carey Gillam](#). 6/28/2021
29. [The Secret Life of Fat with Dr. Sylvia Tara](#). 6/21/2021
30. [Crop Diversity & Global Food Systems with Dr. Colin Khoury](#). 6/14/2021
31. [The Amazing Diversity of Solanaceous Crops with Dr. Sandra Knapp](#). 6/7/2021
32. [Lessons from Plants with Dr. Beronda Montgomery](#). 6/1/2021
33. [Madre Chocolate with Dr. Nat Bletter](#). 5/24/2021
34. [Plants, people, & Jaguar in the Amazon with Dr. Glenn Shepard](#). 5/17/2021
35. [HEALing our Food Systems with Navina Khanna](#). 5/10/2021
36. [How to be a Conscious Eater with Sophie Egan](#). 5/3/2021
37. [Cheese, Wine & Bread with Katie Quinn](#). 4/26/2021
38. [The Business of Botanicals with Dr. Ann Armbricht](#). 4/19/2021
39. [The Wardian Case with Luke Keogh](#). 4/12/2021
40. [Ecosystem Restoration & Sustainable Agriculture with Pavlos Georgiadis](#). 4/5/2021
41. [Under the Olive Tree with Anna Maggio](#). 3/29/2021
42. [Sour Beers & Wild Yeast with Dr. John Sheppard](#). 3/22/2021
43. [Ethnobotany of Wild Foods in British Columbia with Dr. Nancy Turner](#). 3/15/2021
44. [The Spicebox Kitchen with Dr. Linda Shiue](#). 2/22/2021
45. [Precision Nutrition with Dr. Sarah Berry](#). 2/15/2021

46. [Wild Foods & “Sex in Nature” with Dr. Łukasz Łuczaj](#). 2/8/2021
47. [Nutrimetabolomics & Chemical Signals of the Human Diet with Dr. Nichole Reisdorph](#). 1/25/2021
48. [More Than a Sweet Treat! The Dynamic Chemistry of Maple Syrup with Dr. Navindra Seeram](#). 1/18/2021
49. [Herbaria & the Natural History of Plants with Dr. Barbara Thiers](#). 1/11/2021
50. [Fabulous Fungi and Pharmacognosy with Dr. Nicholas Oberlies](#). 12/14/2020
51. [The Chemical Signatures of Plants with Dr. Nadja Cech](#). 11/30/2020
52. [Ethnobotany and Exploration in Oman with Dr. Darach Lupton](#). 11/16/2020
53. [Biocultural Diversity in Barbados with Dr. Sonia Peter](#). 11/9/2020
54. [Gene Banks and the Future of Food with Dr. Ren Wang](#). 11/2/2020
55. [African Rice in the Amazon with Dr. Tinde van Andel](#). 10/26/2020
56. [Tracing relationships between people and plants in the Himalayas Dr. Robbie Hart](#). 10/19/2020
57. [The Emerging Science of Breastmilk and the Gut Microbiome with Dr. Bruce German](#). 10/12/2020
58. [Wicked Plants and Boozy Botany with Amy Stewart](#). 10/5/2020
59. [The Taste of Pain! Solving the Puzzle of Pain Receptors with Dr. David Julius](#). 9/22/2020
60. [Crop Diversity and the “Doomsday” Vault with Dr. Cary Fowler](#). 9/14/2020
61. [The Food Explorer and the Life & Adventures of David Fairchild with Daniel Stone](#). 8/31/2020
62. [The ABCs of Herbal Medicines with Mark Blumenthal](#). 8/24/2020
63. [Stingless Bees, Peccaries & Adventure in the Amazon with Dr. Bruce Hoffman](#). 8/17/2020
64. [Salmon: The Common Fate of a Fish and the Earth with Mark Kurlansky](#). 8/10/2020
65. [Everyday Ayurveda with Dr. Bhaswati Bhattacharya](#). 8/3/2020
66. [Discovering The Giving Kitchen with Bryan Schroeder](#). 7/27/2020
67. [Regional Food & Farming with Kathleen Finlay](#). 7/20/2020
68. [Jennifer Woltz, Asili: Traditional Medicine for HIV in Tanzania](#). 7/13/2020
69. [Progressive Indigenous Cuisine with Shane Chartrand and Jennifer Cockrall-King](#). 7/6/2020
70. [Figs! Gods, Wasps and Stranglers with Dr. Mike Shanahan](#). 6/29/2020
71. [Feasting Wild! Exploring the World of Wild Foods with Gina Rae La Cerva](#). 6/22/2020
72. [The Entangled Life of Fungi with Dr. Merlin Sheldrake](#). 6/15/2020
73. [No Seeds? No Problem! with Dr. Chris Gunter](#). 6/8/2020
74. [A Sicilian Summer – Exploring the Wild Foods and Medicines of Pantelleria with Dr. Quave](#). 6/2/2020
75. [Dragon’s Blood and the FDA Approval Path for Botanicals with Dr. Steven King](#). 5/26/2020
76. [Regenerative Farming and Eating for Longevity with Jennifer Maynard](#). 5/18/2020
77. [Breadfruit & The True Story of Mutiny on the Bounty with Dr. Diane Ragone](#). 5/11/2020
78. [The Amazon: What Everyone Needs to Know with Mark Plotkin](#). 5/4/2020
79. [Berry Patches, Bears & Oil Sands in the Boreal Forest with Dr. Janelle Baker](#). 4/27/2020
80. [Biodiversity, Planetary Health & Disease Ecology with Dr. Tom Gillespie](#). 4/22/2020
81. [Miso, Tamari & Tasty Bean Ferments with Kirsten Shockey](#). 4/20/2020
82. [Wild Fermentation with Sandor Katz](#). 4/13/2020
83. [Mescaline and a Tale of Two Cacti with Mike Jay](#). 4/6/2020
84. [Preserving Abundance with Dr. Julia Skinner](#). 3/30/2020
85. [Yo Soy! The Health Benefits of Soy with Dr. Omer Kucuk](#). 3/17/2020
86. [Herbaria! Edible and Poisonous Plants with Dr. Jordan Metzger](#). 3/9/2020

87. [Food Waste and Sustainability Initiatives with Dr. Peggy Barlett](#). 3/2/2020
88. [Serviceberries + Foraging Wild Foods with Robby Astrove and Chris Willkins](#). 2/24/2020
89. [Eating for Peak Fitness: Sports Nutrition with Dan Benardot](#). 2/17/2020
90. [Antibiotics in our Food? How it Happened with Maryn McKenna](#). 2/10/2020
91. [Ethan Frisch, Burlap & Barrel and the New Spice Trade](#). 2/3/2020
92. [To Eat Or Not To Eat? That's The Question](#). 1/28/2020
93. [Jamaican Root Tonics with Dr. Ina Vandebroek](#). 1/13/2020
94. [Ancient Medicine with Dr. Alain Touwaide](#). 11/21/2019
95. [A Short Cut To Mushrooms with Daniel Butler](#). 11/11/2019
96. [Just the Tonic with Kim Walker and Dr. Mark Nesbitt](#). 11/5/2019
97. [Share A Dram with Whisky Master Gordon Motion](#). 10/28/2019
98. [Haggis & The New Scottish Cuisine with Chef Ben Reade](#). 10/7/2019
99. [Enter the "Blue Zone" with Dr. Lukasz Cielisa](#). 9/30/2019
100. [Botany at the Bar! Bitters, Shrubs, Syrups & More with Dr. Rachel Meyer and Dr. Ashley Duval](#). 9/23/2019
101. [Apples with Dr. Will McClatchey](#). 9/16/2019
102. [Chatter in your cheddar? Microbe cross-talk just got interesting! with Dr. Laura Sanchez](#). 9/9/2019
103. ["The Sioux Chef" Sean Sherman, Labrador Tea and Indigenous Eats](#). 9/2/2019
104. [A Walk in the Garden of American Eden with Dr. Victoria Johnson](#). 8/26/2019
105. [Tomatoes! The Aztec secret to the Mediterranean diet?](#) 8/19/2019
106. [A Hot Cup of Oregano...What? with Dr. Avni Hajdari](#). 6/30/2019
107. [Salep: The Edible Orchids with Susanne Masters](#). 6/23/2019
108. [Mango The King of Fruits!](#) 6/19/2019
109. [Green Cardamom, The Queen of Spices](#). 6/4/2019
110. [Be My Lemon Balm](#). 5/27/2019
111. [Peanuts Ain't Nuts with Chef Steven Satterfield](#). 4/28/2019
112. [Cannabis Curious? A Conversation with Dr. John de la Parra and Ernest Anemone](#). 4/20/2019
113. [Blame it on Cain...Cane Sugar](#). 4/20/2019
114. [Turmeric, the Golden Spice](#). 4/8/2019
115. [Rosemary Is For Remembrance](#). 3/30/2019
116. [The Genius of Ginger](#). 3/7/2019
117. [Reading Tea Leaves with Seth Goldman](#). 2/28/2019
118. [Miracle Fruit: A Miracle in My Mouth](#). 2/23/2019
119. [Cassava: Poison On My Plate?](#) 2/13/2019
120. [Coffee: Wine of the Bean](#). 2/6/2019
121. [Black Pepper: It hurts so good!](#) 1/31/2019

Manuals, Videos, Computer Programs, and Other Teaching Aids

(All subscription numbers updated on 2/15/2022)

1. **Foodie Pharmacology Podcast** (<https://foodiepharmacology.com/>) I developed this educational platform in 2019 in collaboration with Co-Conspiracy TV and serve as the podcast host. The Podcast features short 20-60 minute overviews of the history, chemistry,

pharmacology and health impact of different food ingredients. I also host different guests – chefs, authors, scientists, and business sector leaders – to discuss the health impact of our foods. Available on all podcasting platforms. Channel statistics: Now in the 4th season.

- a. 40,200 episode downloads
 - b. **Twitter** (<https://twitter.com/FoodiePharma>) 647 followers
 - c. **Facebook** (<https://www.facebook.com/Foodie-Pharmacology-with-Cassandra-Quave-2205447586142302>) 614 followers
 - d. **Instagram** (<https://www.instagram.com/foodiepharma/>) 334 followers
2. **TeachEthnobotany YouTube Channel** (<https://www.youtube.com/user/TeachEthnobotany>) I launched this educational platform in 2011 with the intent of sharing educational materials relevant to the field of ethnobotany with students and the public. It includes some of my lectures, recordings of conference presentations and student presentations and projects (with permission of presenters). It is the official platform used by the Society for Economic Botany for sharing conference presentation videos Channel stats:
 - a. 5,833 subscribers
 - b. 590,881 total video views
 - c. 30,105 total hours watched
 3. **Quave Lab TikTok** (https://www.tiktok.com/@quave_lab?lang=en) In February 2022, I launched this site in collaboration with students in my lab group as part of our outreach mission to share botanical science backed up by scientific evidence with the broader public.
 - a. 680 Followers
 4. **Quave Research Group Website** (<https://etnobotanica.us/>) The site hosts educational materials relevant to the field of ethnobotany and lab publications for public access.
 5. **Cassandra Quave Author Website** (<https://cassandraquave.com/>) The site provides information on speaking events and background information on my mass market books. I also run my weekly newsletter (119 subscribers) through this website.
 6. **Quave Research Group Social Media Platforms.** I use a variety of social media platforms to engage with students and the public in discourse relevant to our research in the fields of ethnobotany, antibiotics, and medicinal plants:
 - a. **Twitter** (<https://twitter.com/QuaveEthnobot>) 5,565 followers
 - b. **Facebook** (<https://www.facebook.com/QuaveMedicineWoman>) 1,916 followers
 - c. **Instagram** (<http://instagram.com/quaveethnobot/>) 2,147 followers
 7. **Emory University Herbarium Website** (<https://scholarblogs.emory.edu/emoryherbarium/>) The site hosts educational materials relevant to the work ongoing at the Emory Herbarium, including links and information on how to access our digitized herbarium collection at SERNEC (<http://sernecportal.org/portal/index.php>):
 - a. **Twitter** (<https://twitter.com/EmoryHerbarium>) 862 followers
 - b. **Facebook** (<https://www.facebook.com/EmoryHerbarium/>) 256 followers
 - c. **Instagram** (<https://www.instagram.com/emory.herbarium/>) 1,286 followers
 8. **University of Miami Online Course in Integrative Medicine.** Participated in the filming of a series of 20 educational videos on the topic of ethnobotany, plant natural products, and integrative medicine for this newly launched online course. Also developed course materials and assignments for the course. 2017.

SCIENTIFIC PRESENTATIONS

Invited Seminars and Platform Talks

Emory University

1. [Bound with History: Spring Gardens](#). Virtual Lecture hosted by the Emory University Libraries. 4/21/2022. [Virtual Webinar]
2. Emory University Chemistry Department. "The ethnobotanical approach to drug discovery." 3/22/2022.
3. Discovery and Developmental Therapeutics Research Virtual Lecture Series. "Drugs from Nature: The Ethnobotanical Approach to Drug Discovery". 3/19/2021 [Virtual Webinar]
4. Winship Summer Scholars Program. "Ethnobotany and Anti-Infective Drug Discovery from Nature" Atlanta, GA, 6/29/2020.
5. Winship Symposium: The Social Impact of Winship Science. "Mining nature's chemistry: Development of a cancer drug discovery platform at Emory" Atlanta, GA, 3/28/19.
6. Emory University Nutrition Seminar Series, Center for Clinical and Molecular Nutrition, "Wild Foods and the Ethnobotany of Taste" Atlanta, GA, 11/8/18
7. Emory Tibetan Medical Research Symposium: Building Transdisciplinary Capacity, Panel Member, "Transdisciplinary Pharmacology for Tibetan Medicine: Methodologies, Tools & Measurements of Efficacy" Atlanta, GA, 10/2/2018.
8. Emory University School of Medicine, Pulmonary Division Research Seminar, "Natural product inhibitors of staphylococcal virulence and pathogenesis: Relevance to the CF lung", Atlanta, GA, 2/2018
9. Emory University Department of Biology Seminar, "Ethnobotany and the development of novel anti-infectives for the post-antibiotic era". Atlanta, GA, 10/2017
10. Emory University School of Medicine, Department of Infectious Disease Seminar "Medical ethnobotany and the discovery of antibiotic potentiators", Atlanta, GA, 3/9/2017
11. Microbiology and Molecular Genetics Program Seminar and Antimicrobial Resistance and Therapeutic Discovery Training Program. Emory University "Old cures for new wounds: Virulence inhibitors from European Chestnut attenuate MRSA dermatopathology in a non-biocide manner." 9/21/2015.
12. Chemical Biology Discovery Group Seminar. Emory University "Virulence as a target for the next generation of antibiotic therapies", 10/3/2015.
13. Emory Botanical Center for Health and Resilience Seminar Series. Emory University "The Ethnobotanical Approach to Drug Discovery: Key Resources at Emory" 8/20/2015.
14. Molecular and Systems Pharmacology Program Seminar, Emory University, "Natural product quorum quenchers and biofilm inhibitors" 9/2014.
15. EDGES Seminar, Department of Dermatology, Emory University School of Medicine, "Medical ethnobotany in the Balkans", 4/2014.
16. Neuroanesthesiology Seminar Series, Emory University School of Medicine "Natural product quorum quenchers", 12/17/2014.
17. Department of Anthropology Seminar, Emory University, "Ethnobotany and the science of human health". 11/2013.
18. Herbarium revitalization project. Department of Biology Seminar, Emory University, 10/2013.
19. Medicines from nature. Department of Environmental Sciences Seminar Series, Emory University, 2/2013.

20. Natural product anti-infectives. Infectious Disease Seminar. Emory University School of Medicine, Department of Infectious Disease, CME Credit Lecture for ID clinicians. 9/2012.

Other Institutions

1. **Lehman College, 2022 Basile Memorial Lecture**, New approaches to ethnobotany and drug discovery in the 21st century. 4/8/2022.
2. **National Institutes of Health, Office of Dietary Supplements Seminar Series**, Preclinical evaluation of interactions between dietary botanicals and drugs. 3/30/2022.
3. **University of Kentucky**, Pharmaceutical Sciences Seminar Series. 1/18/2022.
4. **University of Florida**, Whitney Laboratory, Research Seminar, "The Ethnobotanical Approach to Antimicrobial Discovery." 1/14/2022.
5. **University of Florida**, Whitney Laboratory, Evenings at Whitney Public Lecture Series. 1/13/2022.
6. **Elachee Nature Center, Virtual Science Night**, "Ethnobotany/Ethnopharmacology". Public Lecture. 1/4/2022.
7. **Chattahoochee Nature Center**, "The Plant Hunter." Public Lecture. 11/18/2021.
8. **Elachee Nature Center**, "The Plant Hunter." Public Lecture. 11/13/2021.
9. **Fairchild Tropical Botanic Garden**, "The Plant Hunter." Virtual Webinar. 10/22/2021.
10. **New York Botanical Garden**, "The Plant Hunter." Virtual Webinar. 10/22/2021.
11. **Missouri Botanical Garden**, "The Plant Hunter." Virtual Webinar. 10/22/2021.
12. **Atlanta Botanical Garden**, Alston Lecture, "The Plant Hunter." 10/12/2021.
13. **Old Dominion University**, Chemistry and Biochemistry Department Seminar, "Drugs from Nature: The Ethnobotanical Approach to Antimicrobial Discovery." Virtual Webinar. 9/23/2021.
14. **National University of Natural Medicine**, Keynote Graduation Commencement Address, 6/26/2021.
15. **Università degli Studi di Genova**, Sciences and Technologies for the Earth and Environment Webinar Series, "Ethnobotany and the role of medicinal plants in anti-infective drug discovery" 5/21/2021.
16. **Harvard University**, Accelerator Workshop at the Radcliffe Institute, Novel Therapeutics and Biodiversity, "The Ethnobotanical Approach to Drug Discovery." Virtual Symposium. 5/13-14/2021.
17. **The Taft School**. "Drugs from Nature: The Ethnobotanical Approach to Antimicrobial Discovery." Virtual Webinar. 4/19/2021.
18. **Harvard Medical School**. Blavatnik Institute, Department of Microbiology Seminar Series. "Drugs from Nature: The Ethnobotanical Approach to Antimicrobial Discovery." Virtual Webinar. 2/9/2021.
19. **Boston University School of Medicine**, Department of Dermatology Virtual Grand Rounds. "Ethnobotany and anti-infective drug discovery for infectious and inflammatory skin diseases." [CME lecture] Virtual Webinar. 1/6/2021.
20. **University of Richmond**, Biology Department Seminar Series, 2020 Scientist of Color Speaker Series. "Ethnobotany and the search for new antibiotics from nature". Virtual Webinar. 9/21/2020.
21. **Virginia Tech**, Life Science Seminar Series, "Medicinal plants as a resource for drug discovery in the post-antibiotic era" Blacksburg, VA, 2/21/20.

22. **Rutgers University**, Department of Plant Biology Seminar Series. "Traditional medicine as a resource for antimicrobial drug discovery for the post-antibiotic era." New Brunswick, NJ. 2/7/20.
23. **University of California Los Angeles**, Scientific Excellence through Diversity Seminar (SEDS) Series. "From the field to the lab: Tackling drug discovery research as an amputee and mother." Los Angeles, CA. 1/21/20.
24. **University of California San Francisco**, Biophysics/Bioinformatics/Chemistry and Chemical Biology Seminar Series. "Ethnobotany-guided discovery of novel natural products for infectious disease." San Francisco, CA. 1/9/2020.
25. **Bath Spa University**, Geography and Environment Seminar series. "Exploring Nature's Medicine Chest: The Ethnobotanical Approach to Drug Discovery." Bath, England. 10/31/2019
26. **Michigan State University**, Microbiology and Molecular Genetics seminar series, "Exploring Nature's Chemistry: Ethnobotany and antimicrobial drug discovery" East Lansing, MI, 10/22-23/2019.
27. **University of Florida**, Microbiology and Cell Science Seminar. "Anti-infective drug discovery from medicinal plants: Developing mechanistic insights into the role of botanicals in infection control" Gainesville, FL. 10/7/2019.
28. **University of California, Irvine**. Samueli Institute of Integrative Medicine seminar. "Mining nature's chemistry: Developing mechanistic insights into the role of botanicals in integrative health". Irvine, CA. 7/1/19.
29. **Scripps Institution of Oceanography, UCSD**, Discovery of novel quorum sensing inhibitors from botanicals. Center for Marine Biotechnology & Biomedicine Seminar, La Jolla, CA. 3/19/19.
30. **University of Alabama, Tuscaloosa**, Department of Biological Sciences seminar series. "Plants, people and the search for new strategies to combat antibiotic resistant infections". Tuscaloosa, AL, 1/11/2019.
31. **Oklahoma State University**, Department of Plant Biology, Ecology, & Evolution Seminar. "Plants, people and the search for new medicines to combat antibiotic resistant infections". Stillwater, OK, 11/29/2018.
32. **Georgetown University**, Department of Biology Seminar "Discovery of anti-infective botanical natural products." Washington, DC, 9/13/2018.
33. **Joseph W. Jones Ecological Research Center**, Research Seminar Series. "Ethnobotany and drug discovery from nature". Baker County, GA, 6/2018.
34. Plant Biology Initiative at **Harvard University**, 13th Annual Plant Biology Symposium: [Natural History Collections in the Anthropocene](#), "Cures from herbs? Leveraging herbaria and ethnobotanical collections to fuel the discovery of new drugs from nature" Boston, MA, 5/2018.
35. **Florida State University**, Sponsored by the College of Medicine and Biological Research Department, Grand Rounds Seminar, "Ethnobotany and the discovery of anti-infectives for the post-antibiotic era" Tallahassee, FL, 5/2018.
36. **University of Virginia**, Symposium on Plant Life, "The role of medicinal plants in anti-infective drug discovery" Charlottesville, VA, 2/2018.
37. **University of Oregon**, Department of Chemistry Seminar, Eugene, "Medical ethnobotany and anti-infective drug discovery" OR, 3/2018.
38. **Oregon State University**, Department of Chemistry Seminar, "Plant natural products as virulence inhibitors for bacterial infection" Portland, OR, 3/2018.
39. **Cornell University**, Department of Plant Biology Seminar, "Medical ethnobotany and the discovery of new drugs from nature" Ithaca, NY, 11/2017.

40. **University of North Carolina Greensboro**, Department of Chemistry Seminar. "Ethnobotany and the search for novel anti-infectives for the post-antibiotic era". Greensboro, NC, 9/2017
41. School of Biological Sciences Seminar, **Georgia Institute of Technology**. "Virulence inhibitors from Brazilian Peppertree block quorum sensing and abate dermonecrosis in skin infection models" Atlanta, GA 1/26/2017
42. "Medical Ethnobotany and the Discovery of New Drugs for Antibiotic Resistant Infections." Keynote address for the Georgia Section of the American Chemical Society meeting. Atlanta, GA. 1/24/2017.
43. Mechanisms of Disease Seminar, **Medical College of Georgia**. "Old cures for new wounds? Development of an anti-virulence approach for MRSA infections" Athens, GA. 12/15/2016.
44. Plant Biology Seminar, **University of Georgia**. "Going back to the future? Herbal medicines as the source of the next generation of antibiotics" Athens, GA 11/7/2016.
45. Biology/One Health Seminar, **Berry College**. "Going back to the future? Herbal medicines as the source of the next generation of antibiotics" Rome, GA 3/28/2016.
46. Research Seminar Series, **Georgia State University** "Natural product inhibitors of bacterial pathogenesis: A solution for the antibiotic resistance paradox?" Atlanta, GA. 1/29/2016.
47. Department of Chemistry and Chemical Biology Colloquium, **Northeastern University**. "Natural Products from Chestnut attenuate MRSA virulence in a non-biocide manner" Boston, MA, 10/14/2015.
48. **Estee Lauder**, "Botanical natural products for skin health and cosmetic development". New York, NY 9/16/2015.
49. Georgia Herbalists Guild, special lecture "Medical ethnobotany and drug discovery for antibiotic resistant infections", **Atlanta Botanical Gardens**, Atlanta, GA. 8/16/2015.
50. Alan Lesniewicz Memorial Keynote Lecture and 'Garden Walk' at the College of Pharmacy, **University of Illinois Chicago** "Medical ethnobotany and drug discovery for antibiotic resistant infections." Chicago, IL 7/17/2015
51. Department of Plant Biology Seminar, **Cornell University**. "Medicines from nature: An ethnobotanical approach to drug discovery" Ithaca, NY, 3/2014.
52. Frontiers in Science Public Lecture Series, **Florida Atlantic University** "Anti-infective drugs from nature" Boca Raton, FL 2/2014.
53. Chemistry Department Seminar, **Florida Atlantic University** "Natural Product Inhibitors of Pathogenesis: The next generation of antimicrobial therapy?" Boca Raton, FL, 2/2014.
54. Quorum quenchers and biofilm inhibitors: A new direction for anti-infective drug discovery. Microbiology and Molecular Genetics Program Seminar, Emory University, 2/2014.
55. Leiden Bioscience Initiative, van Leeuwenhoek Lecture series on BioScience, **Leiden University** "An Ethnobotanical Approach to Anti-infective Drug Discovery " Leiden, The Netherlands, 10/2013

Prior to Independent Career

56. Going green: New plant medicines for treating the "superbug" MRSA. Botany in Action Symposium. **Phipps Conservatory and Botanical Gardens**. Pittsburg, PA, USA 1/11-12/2008.
57. Botanical remedies for the skin: A south Italian pharmacopoeia. Botany in Action Symposium. **Phipps Conservatory and Botanical Gardens**. Pittsburg, PA, USA. 1/6/2007.

Invitations to Conferences

1. Invited plenary speaker: [Gordon Research Conference on Natural Products and Bioactive Compounds](#): **The Function of Natural Products at the Interface of Chemistry and Biology**. “Ethnobotany as a tool for targeted natural products discovery” 7/31-8/5/2022. Andover, NH
2. Invited plenary speaker: [Botany 2022](#). Plants at the Extreme. 7/24-27/2022. Anchorage, Alaska.
3. Invited speaker: [Cell-Cell Communication in Bacteria: Fundamental and Applied Targets](#). “Identification of potent quorum sensing inhibitors from plants used in traditional medical systems” 6/28-6/30/2022. Cambridge, England.
4. Invited speaker: 'Transcriptomics and Metabolomics for Discovery Science in Plant Biology,' **Erudite Scholar in Residence Workshop, Department of Botany, University of Calicut, Kerala, India** [virtual presentation] 5/16-20/2022
5. Invited speaker: Pharmaceutical Time Travel. University of Oslo Life Sciences Symposium. **Historical Use of Plant Remedies and Plant Medicines Today**. Oslo, Norway [virtual presentation] 2/17/2022.
6. Invited speaker. “Ethnobotany and plant natural products in antibiotic drug discovery” **Southeastern Regional Meeting of the American Chemical Society**. 11/10-13/2021. Birmingham, AL.
7. Invited speaker: **Pacifichem: Chemical and Biological Strategies to Combat Antimicrobial Resistance Session**. “Discovery of botanical natural products that block staphylococcal virulence and abate dermonecrosis.” 12/16-21/2021. Honolulu, HI.
8. Invited speaker: **2021 University of Lagos Traditional Medicine Day Symposium** hosted by the Faculty of Pharmacy, Lagos, Nigeria. “Ethnobotany and drug discovery for infectious disease.” 8/31/2021. Virtual Symposium.
9. Invited Colloquium Speaker: **Botanical Society of America**. “Plant natural products and the future of antimicrobial discovery”. July 2021. Virtual Conference.
10. Invited speaker: **Annual Meeting of the American Society of Pharmacognosy**. “Ethnobotany and the potential of plant natural products in antibiotic drug discovery.” 7/24-28/2021. Grand Rapids, MI. [Conference canceled due to COVID-19]
11. Invited speaker: **World Microbe Forum, American Society for Microbiology (ASM) and Federation of European Microbiological Societies (FEMS) Joint Meeting**. Session Title: Learning from Nature to Combat Antimicrobial Resistance: Network Pharmacology with Plant and Fungal Metabolites. “Drugs from Nature: The Ethnobotanical Approach to Antimicrobial Discovery”. 6/20-24/2021. Virtual Webinar.
12. Invited speaker: **Plants and Planting for the Future**. “Healing Plants and the Search for New Antimicrobials” 3/21-3/24/2021. Barbados. Virtual Conference.
13. Invited speaker: **Natural Products Research Network for Eastern and Central Africa – EGYPT (NAPRECA)** “Ethnobotany and Antibiotic Drug Discovery” online webinar conference “The Need of Medicinal Plants in Time of Crisis. 12/7/2020.
14. Invited speaker: **Pacifichem: Chemical and Biological Strategies to Combat Antimicrobial Resistance Session**. “Discovery of botanical natural products that block staphylococcal virulence and abate dermonecrosis.” 12/15-20/2020. Honolulu, HI. [Canceled due to COVID-19]
15. Invited keynote speaker: **Garden Club of America. Shirley Meneice Horticulture Conference**. “Nature’s Medicine Chest” Virtual Webinar. 9/21/2020.
16. Invited plenary speaker: **Gordon Research Conference on Natural Products and Bioactive Compounds**. 08/02-07/20. Andover, NH. [Canceled due to COVID-19]

17. Invited keynote speaker: **Microbial Ecology and Evolution Conference**. “Human-plant interactions in the ecology and evolution of infection.” 8/12-14/2020. Virtual (Web-based) Conference.
18. Invited plenary speaker (CME credit): **Symposium on Advanced Wound Care and Wound Healing Society Meeting** “Biologics and Novel Botanical Therapies.” 05/17/20. San Diego, CA. [Canceled due to COVID-19]
19. Invited speaker: Ramon Areces Foundation International Seminar. **Research on Botanical Collections: Insights and Challenges in a Climate Change Scenery** “The role of botanical collections in drug discovery for the post-antibiotic era.” 05/07-08/20. Madrid, Spain. [Canceled due to COVID-19]
20. Invited speaker: **American Society of Pharmacognosy Natural Products Webinar Series**. “Ethnobotany and Anti-infective Natural Products Discovery” 4/30/2020.
21. Invited speaker: **NIH 2019 Traditional Medicine Summit**. “Models of Research Success: Investigation of the Medicinal Potential of Botanicals” 11/20-22/2019. Denver, CO.
22. Invited plenary speaker: **Susan Samueli Integrative Health Institute Symposium**. “Nature’s Medicine Chest: How Plants can Help in the Fight against Antibiotic Resistance” 11/19/2019. Newport, CA.
23. Invited plenary speaker: **Herbal History Research Network** “Historic herbal texts as a resource for drug discovery in the post-antibiotic era”. 10/30/2019. Bath, England.
24. Invited plenary speaker: **Microbiology Society Meeting**: “Antimicrobial drug discovery from traditional and historical medicine”. 10/29/2019. Oxford, England.
25. Invited plenary speaker. **iDigBio ADBC Summit**: “Cures from herbs? The role of ethnobotany and herbaria in driving the discovery of new drugs from nature” 10/1-3/2019. Gainesville, FL.
26. Invited speaker: **National Center for Complementary and Integrative Health Symposium, National Institutes of Health**: “Growing up with NCCAM/NCCIH – 16 years of Development as a Scientist” 9/23/2019. Bethesda, MD.
27. Invited speaker: **Birmingham Botanic Gardens Plant Connections Conference**, Plenary talk: “Nature’s pharmacy: The medicinal potential of native plants from the SE USA” and Concurrent session talk: “Peppertree: Hated weed or promising medicine?” 5/30-31/2019, Birmingham, AL, USA.
28. Invited plenary speaker: **Society for Investigative Dermatology** meeting, State-of-the-Art Lecture, “Mining Nature’s Chemistry: Ethnobotany and drug discovery for dermatologic applications” 5/10/2019. Chicago, IL.
29. Invited panelist: **Society for Investigative Dermatology** meeting, 2019 PhD Retreat for Young Investigators, “Successfully navigating unspoken challenges – managing bumps in the road” and “Translational Science”. 5/8/2019.
30. Invited speaker and panelist: **Association of Healthcare Journalism** meeting, Panel “A future without antibiotics” 5/4/2019. Baltimore, MD.
31. Invited plenary speaker: **Biocultural Education and Research Programme Botanical Symposium and Exhibition**, “Medical ethnobotany and the discovery of botanical natural products for skin health”, 4/11-13/2019. St. Johns, Barbados.
32. Invited plenary speaker: **Gordon Research Conference on Chemical and Biological Terrorism Defense**. Section: Novel Methods for Countering Antimicrobial Resistance. Talk title: “Innovating Countermeasures for Hypervirulent Multidrug-Resistant Pathogens with Botanical Natural Products” 3/2019. Ventura, CA.

33. Invited speaker: **Natural Products and Pain Symposium, National Institutes of Health**, National Center for Integrative Health, Talk title: "How to find natural remedies for pain management?" 2/6/2019, Bethesda, MD.
34. Invited presenter: **6th Arab-American Frontiers of Science, Engineering, and Medicine symposium**, held in partnership with the U.S. National Academy of Sciences and Kuwait Foundation for the Advancement of Sciences. "Modulation of the skin microbiome by botanical natural products." 11/4-6/2018. Kuwait City, Kuwait.
35. Invited Plenary Speaker: **Integrative Skin Care Symposium**. "The use of botanicals in dermatology". 10/2018. Sacramento, CA.
36. Invited speaker: **Gordon Research Conference on Drug Resistance**. "Medical Ethnobotany and the Discovery of New Drugs to Combat Antibiotic Resistance", 7/2018. Bryant University, Rhode Island
37. Invited speaker. Discovery of Anti-infectives and Virulence Inhibitors from Botanical Natural Products. **ASM Microbe** "Microbial Chemistry Sets" session. 6/2018. Atlanta, GA.
38. Invited speaker and session moderator. **Complementary Wound Modalities. Symposium on Advanced Wound Care Spring and Wound Healing Society Meeting (SAWC Spring/WHS)**. 4/2018. Charlotte, NC.
39. Invited speaker. Traditional and complementary medicine as a source of new anti-infective therapies in the post-antibiotic era. **1st International Traditional and Complementary Congress and Fair**. 4/2018. Istanbul, Turkey.
40. Invited speaker: Virulence in the skin microbiome: Clinical severity in pediatric atopy correlates to staphylococcal toxicity. **Derm Day Symposium** at Emory University Department of Dermatology. 3/2018. Atlanta, GA.
41. Invited opening keynote speaker for the meeting. Innovating the future of wound care with botanical natural products. **Innovations in Wound Healing**. 12/2017. Bimini, Bahamas.
42. Invited speaker, "Developing anti-infectives for skin conditions from medicinal plants used in Italian folk medicine", **Redesigning Resilience Workshop**, Myddfai Centre, Cardiff Metropolitan University, UK, 7/5/2017
43. Invited plenary speaker: **American Council for Medicinally Active Plants**. 6/2017. Clemson, SC, USA. (Had to decline due to schedule conflicts).
44. Invited plenary speaker. Ethnobotany and the post-antibiotic era: Exploring an expanded toolkit for overcoming antibiotic resistance. **Society for Economic Botany** meeting. 6/2017. Bragança, Portugal.
45. Invited speaker. Medical Ethnobotany and the Discovery of New Drugs for Antibiotic Resistant Infections. **American Society for Horticultural Science** (invited speaker for Herbs, Spices and Medicinal Plants Working Group workshop). 8/2016. Atlanta, GA, USA.
46. Invited speaker. The ethnobotanical approach to anti-infective drug discovery. **Indonesia-American National Academy of Science Kavli Frontiers in Science** symposium. 7/2014. Medan, Sumatra, Indonesia.
47. Invited plenary speaker. From the field to the pharmacy: The important role of TCAM to the future of public health. **Traditional Complementary and Alternative Medicine Conference**, Health Authority of Abu Dhabi. 12/2013. Abu Dhabi, United Arab Emirates.
48. Invited poster: Mechanistic studies on staphylococcal quorum quenching natural products. NIH Stephen E. Straus Distinguished Lecture in the Science of Complementary Health Therapies. **NIH. Natural Products: Drugs and medicines for all reasons and seasons**. 12/2012. Bethesda, MD.

Prior to Independent Career

49. Natural products from Italian medicinal plants: Potential anti-biofilm agents for MRSA (Poster). **National Institutes of Health (NIH) National Graduate Student Research Festival (NGSRF)**. Bethesda, MD 10/10-10/12/2007.

Contributed Presentations at Conferences

† Awards, honors, or high citations associated with the publication; ‡ Description of my contribution if I am neither first nor last author (per Emory guidelines); ** Students/postdocs/medical residents I have trained, undergraduate researchers are underlined; # Equal contributions. Presenting author in italics. [Spanish] or [Italian] indicates language of presentation delivery if other than English.

1. *Quave, C.L.* Emerging Technologies in the Ethnobotanical Approach to Drug Discovery. Joint Meeting of the **Society for Economic Botany and International Society of Ethnobiology**. Oral presentation. Mona, Jamaica. 5/30-6/2/2022.
2. *Quave, C.L.* Botanical inhibitors of staphylococcal virulence: A new path toward mitigating atopic dermatitis severity? **Society for Investigative Dermatology** (poster) and **International Eczema Council Symposium** oral presentation. Portland, OR. 5/18-21/2022
3. *Risener C.J.***, Samarakoon T., Woo S.**, Caputo M., Edwards E., Zandi K., Goh S. L., Downs-Bowen J. A., Schinazi R. F., Quave C. L. Identification of Botanical Viral Entry Inhibitors for SARS-CoV-2 (Poster Presentation) **Experimental Biology 2022**. Philadelphia, PA. 04/01/2021-04/05/2021
 - a. Cate Risener won First Place for a Graduate Student Poster in the the Division for Drug Discovery and Development section of the American Society for Pharmacology & Experimental Therapeutics
4. *Joseph, I.***, C. Risener**, K. Falk, G. Northington, C.L. Quave. Bacterial Persistence as a Potential Mechanism of Recurrent UTI in a Urogynecologic Population. **AUGS: American Urogynecologic Society**. July 2022.
5. *Reece M. D.***, Risener C. J.**, Ribeiro Pereira S, Sekaly R. P., Quave C. L., Gavegnano C. Novel Natural Product Extracts as Immunomodulators to Target COVID-19 Induced Immune Dysregulation (Poster Presentation) **Emory University's COVID-19 Response: Celebrating the Contributions of Emory Graduate Students**. Atlanta, GA. 11/12/2021
6. Baer, W., J. Maples-Keller, A. Zarrabi, C.L. Quave. Plants, fungi, and psychiatry: Potential, Problems and Plans. **Academy of Consultation-Liaison Psychiatry 2021**. [Virtual Conference] 11/10-12/2021.
7. *Edwards E. G.***, Risener C. J.**, Caputo M., Woo S.**, Porras G.**, Morgan E., Quave C. L. Inhibition of drug metabolizing cytochrome P450 enzymes by common herbal dietary supplements (Oral Presentation) **Society for Economic Botany Summer Symposium**. (Virtual Meeting). 08/06/2021
8. Dettweiler M., Melander R. J., Porras G., *Risener C. J.***, Marquez L., Samarakoon T., Melander C., Quave C.L. A Clerodane Diterpene from *Callicarpa americana* Resensitizes Methicillin-Resistant *Staphylococcus aureus* to β -Lactam Antibiotics. (Oral Presentation, Keynote) **American Society of Pharmacognosy 2020 Younger Members Virtual Symposium** (Virtual Meeting) 08/13/2020

9. Marquez, L.**; J. Shang**, F. Chassagne**, C.L. Quave. Antifungal activity of pentagalloyl glucose against drug resistant *Candida* species. (Oral Presentation). **American Council for Medicinally Active Plants**. 6/24-25/2021.
10. Risener, C.** M. Caputo, G. Porras**, C.L. Quave. Exploring the potential of natural products to combat COVID-19. (Oral Presentation) **Society for Ethnopharmacology, India: International Symposium on “Combating COVID-19 - Ethnopharmacology and Traditional Food and Medicine**. India, (Virtual meeting) 12/17-19/2020.
11. Dettweiler, M., F. Chassagne**, L. Marquez**, M. Lin, C. Risener**, A.M. Sweeney-Jones, B. Chhetri, D.V. Zurawski, J. Kubanek, C.L. Quave. Antimicrobial properties of the botanical natural product pentagalloylglucose against multidrug resistant bacterial and fungal pathogens. **Gordon Research Conference on New Antibacterial Discovery and Development**. Barga, Italy. 3/1-6/2020. [CANCELLED DUE TO COVID-19]
12. Schultz, F**, G. Anwar, L. Pieters, C.L. Quave, L.-A. Garbe. Ethnopharmacological research across borders – Uganda, Germany, Belgium, USA, and back to Uganda. **7th International Congress of the Society for Ethnopharmacology, India** (SFEC 2020). New Delhi, India. 2/15-17/2020.
13. Risener C. J**, Marquez L.**; Chassagne F., Porras-Brenes G.**; Quave C. L. *Rhus spp.*: from traditional uses to antifungal activity (Poster Presentation) **Society for Economic Botany**. Mona, Jamaica. 05/31/2020 - 06/04/2020 [Postponed to 2022 due to COVID-19 pandemic]
14. Lyles, J.T., S. Voletj, A. Salam**, C.L. Quave. Validating traditional botanical medicine with modern microbiology and pharmacognosy techniques using *Castanea* spp. as a model system. (Oral Presentation). **2019 Xining International Conference on Tibetan Medicine**. Xining, China. 8/24-26/2019.
15. Salam, A.**; G. Porras-Brenes**, J. T. Lyles, J. Bacsá, C.L. Quave. Hydroperoxy-cycloartane triterpenoids from the leaves of *Castanea sativa* inhibit quorum sensing in *Staphylococcus aureus*. (Poster Presentation). **American Society of Pharmacognosy**. Madison, WI. 7/14-7/17/2019.
16. Porras-Brenes, G.**#, H. Tang**#, J.T. Lyles, J. Bacsá, C.L. Quave. Triterpenoid acids from *Schinus terebinthifolia* attenuate virulence in *Staphylococcus aureus*. (Poster Presentation). **American Society of Pharmacognosy**. Madison, WI. 7/14-7/17/2019.
17. Lyles, J.T., S. Voletj, M. Dettweiler, A. Salam**, C.L. Quave. Identifying natural product quorum sensing inhibitors using *Castanea* spp. as a model system for compound activity mapping. (Poster Presentation). **American Society of Pharmacognosy**. Madison, WI. 7/14-7/17/2019.
18. Marquez, L.**; F. Chassagne**, G. Porras-Brenes**, J.T. Lyles, K. Nelson, J. Shang, C.L. Quave. Discovery of botanical natural products to combat the emerging multidrug-resistant fungal pathogen *Candida auris*. (Poster Presentation). **American Society of Pharmacognosy**. Madison, WI. 7/14-7/17/2019.
19. Dettweiler, M., L. Marquez**, M. Caputo, C.L. Quave. Identification of growth inhibiting and resistance modifying botanicals for carbapenem-resistant *Acinetobacter baumannii*. (Poster Presentation). **American Society of Pharmacognosy**. Madison, WI. 7/14-7/17/2019.
20. Quave, C.L., J.T. Lyles, H. Tang**, M. Dettweiler, M. Salazar. Ethnobotany-guided identification of antibiotic resistance modifying agents for multidrug-resistant infections. (Oral presentation). **Society for Economic Botany**. Cincinnati, OH. 6/2-6/2019.
21. Pijeaux, A.**; K. Luk, S. Maidman, S. Reddy, G. Wrenn, C.L. Quave, S. Chisolm, S. Kini, S. Chen. Factors that drive disparities in pruritus quality of life among Asian Americans: a

qualitative study. (Oral Presentation). **American Academy of Dermatology** annual meeting. 3/2019. Washington, DC, USA.

‡ Contributed to field study and revising the abstract.

22. *Su, M., S. Lemus, J.T. Lyles, C.L. Quave, T. Read.* Genetic basis of variation in delta-toxin production in *Staphylococcus aureus*. **Lake Arrowhead Microbial Genomics Conference**. (Poster Presentation). 9/2018. Lake Arrowhead, CA, USA.

†DOE Student Sponsorship Award for student poster presentation

‡ Directed the delta-toxin quantification studies and assisted in study design.

23. *Park, J.Y.***, C.L. Quave. Investigation of the Resistance-modifying Potential of Plant Extracts Against Carbapenem-resistant *Acinetobacter baumannii*. (Poster). **ASM Microbe**. 6/2018. Atlanta, GA, USA.

24. *Quave, C.L.* Innovative strategies for teaching in the plant sciences. (Oral Presentation). Joint Conference of the **Society for Economic Botany and Society of Ethnobiology**. 6/2018. Madison, WI.

25. La Rosa, A., L. Cornara, A. Saitta, A. Salam**, S. Grammatico, M. Caputo, T. La Mantia, C.L. Quave. Ethnobotanical uses of wild flora and fungi on the Aegadian Islands of Sicily, Italy. (Oral Presentation). Joint Conference of the **Society for Economic Botany and Society of Ethnobiology**. 6/2018. Madison, WI.

26. Gurnee, E.**, K. Lehman**, K. Nelson, B. Dale, R. Swerlick, C.L. Quave. Severity of pediatric atopic dermatitis correlates to hemolytic potential of *S. aureus* isolates from atopic lesions. **International Investigative Dermatology Meeting**. 5/2018. Orlando, FL, USA.

27. *Reddy, S.***, K. Brothers. C.L. Quave, S. C. Chen. Gender Perceptions of Scientists among 5th graders. **International Investigative Dermatology Meeting**. 5/2018. Orlando, FL, USA.

‡ Contributed to field study and revising the abstract.

28. *Park, J.Y.***, C.L. Quave. Resistance Modifying Activity of Botanical Natural Products on Carbapenem-resistant *Acinetobacter baumannii*. (Poster). **Gordon Conference on New Antibacterial Discovery and Development**. 3/2018. Ventura, CA, USA.

29. *Park, J.Y.***, A. Bullard-Roberts**, J.T. Lyles, K. Nelson, C.L. Quave. Impact of aqueous plant extracts on growth of ESKAPE pathogens. (Poster Presentation). **Young Generation Technical and Leadership Conference (YGNITE)**. 1/2018. Washington, DC, USA.

30. *Swainer, J.***, R.L. Jarret, J.T. Lyles, C.L. Quave. Comparative Phytochemical Analysis of *Citrullus ecirrhosus* and *Citrullus mucosuspermus* Using HPLC and LC-MS. (Poster) **Annual Biomedical Research Conference for Minority Students**. 11/1-11/4/2017. Phoenix, AZ.

31. *Williams, A.***, J.T. Lyles, C.L. Quave. Native American Ethnobotany and its Significance in Alleviating Infection in the U.S. Maternal Morbidity/Mortality Crisis. (Oral Presentation). 2017 **Atlanta Undergraduate Conference on Health and Society**. Agnes Scott College, 11/18/2018, Atlanta, GA, USA.

32. *Luk, K.***, A. Pijoux**, K.H. Chen, G. Wrenn, C. Quave, S. Chisolm, S. Kini, S. Chen. Differences in factors that drive pruritus quality of life between Asian Americans and other races (Poster Presentation) **9th World Congress on Itch**. 10/15-17/2017. Wroclaw, Poland.

‡ Contributed to field study and revising the abstract.

33. Lyles, J.T., K. Nelson, *J. Shang***, C.L. Quave. Identification of Botanical Natural Products to Combat the Emerging Threat of MDR *Candida auris*. (Poster presentation) **ASM/ESCMID Conference on Drug Development to Meet the Challenge of Antimicrobial Resistance**. 9/6-8/2017. Boston, MA.

34. Khan, M.F.**, A. Shabbir, Z.U.R. Mashwani, C.L. Quave. Ethnomedicine of Kashmir Himalyas, a Hot Spot for Anti-infective Drug Discovery. **Georgia Institute of Technology Antimicrobial Resistance Symposium**. 8/15/2017. Atlanta, GA.
35. Salam, A.**, J.T. Lyles**, K. Nelson, C.L. Quave. Fractionation of purified *Castaea sativa* leaf extract 224C-F2 yields quorum quenchers with enhanced bioactivity. **Georgia Institute of Technology Antimicrobial Resistance Symposium**. 8/15/2017. Atlanta, GA.
36. Lyles, J.T.**, K. Nelson, J. Shang**, C.L. Quave. Identification of Botanical Natural Products to Combat the Emerging Threat of MDR *Candida auris*. (Poster presentation). **Georgia Institute of Technology Antimicrobial Resistance Symposium**. 8/15/2017. Atlanta, GA.
37. Quave C.L., R. Melander, J.T. Lyles**, K. Nelson, C. Melander. Sensitization of beta-lactam antibiotics with resistance modifying agents from a medicinal plant. (Oral Presentation) **American Society of Pharmacognosy** (ASP) conference. 7/30-8/2/2017. Portland, Oregon.
38. Quave C.L., R. Melander, J.T. Lyles**, K. Nelson, C. Melander. Potentiation of beta-lactam antibiotics with resistance modifying agents from a medicinal plant (Oral Presentation) **International Society of Ethnopharmacology** (ISE-USEK) conference. 4/24-4/28/2017. Beirut, Lebanon.
39. Quave, C.L. Natural products and anti-infective drug discovery. (Oral Presentation) **3rd Natural Products Conference**. 3/20-23/2017. Cancun, Mexico
40. Pulaj, B.**, B. Mustafa, K. Nelson, C.L. Quave, A. Hajdari. Chemical composition and in vitro antibacterial activity of *Pistacia terebinthus* essential oils derived from wild populations in Kosovo. (Poster Presentation) **Konferencen Perkujtimore, Akademia e Shkencave e Shqiperne dhe Universitati Bujqesor i Tiranes**. 12/10/2016. Tirana, Albania.
‡ Directed the antimicrobial assays reported.
41. Quave, C.L., K. Nelson, J. Lyles**, T. Li**, E. Addie-Noye**, P. Tyler** and A. Saitta. Ethnobotanical discovery of plants and fungi with antibacterial activity against *Propionibacterium acnes*. (Oral Presentation). **Society for Economic Botany**. 6/5-6/9/2016. Bledsoe, KY, USA.
42. Li, Tracy**, K. Nelson, C.L. Quave. Anti-acne activity of *Schinus terebinthifolia*, a medicinal plant traditionally used to treat skin and soft tissue infection. (Poster Presentation) **Society for Economic Botany**. 6/5-6/9/2016. Bledsoe, KY, USA.
43. Cai, J.Z.**, J.T. Lyles**, C.L. Quave. Chemical characterization of the tinder fungus *Fomes fomentarius*. (Poster Presentation) **Society for Economic Botany**. 6/5-6/9/2016. Bledsoe, KY, USA.
44. Lyles, J.T.**, A. Kim**, K. Nelson, C.L. Quave. Investigation into the chemical paradox of a *Hypericum perforatum* (St. John's Wort) traditional skin remedy. (Oral Presentation). **Society for Economic Botany**. 6/5-6/9/2016. Bledsoe, KY, USA.
45. Lyles, J.T.**, J.S. Kavanaugh, K. Nelson, C.P. Parlet, H.A. Crosby, K.P. Heilmann, A.R. Horswill, C.L. Quave. Structure elucidation of ursene and oleanene derivatives from *Castanea sativa* (European Chestnut) that inhibit *Staphylococcus aureus* virulence and pathogenesis (Poster Presentation). **16th Annual International Conference on the Science of Botanicals and 5th Annual Interim Meeting of the American Society of Pharmacognosy**. 4/11-14/2016. Oxford, MS, USA.
46. Quave, C.L. Answering the Call to Arms: Tools for Assessing the Anti-infective Potential of Natural Products in a Time of Rising Antibiotic Resistance. (Oral Presentation) **International Conference on the Science of Botanicals and Interim American Society of Pharmacognosy Meeting**. 4/11-4/14/2016. Oxford, MS, USA. [[Link](#)]

47. Lyles, J.T.**; J.S. Kavanaugh, K. Nelson, C.P. Parlet, H.A. Crosby, K.P. Heilman, A.R. Horswill, C.L. Quave. *Castanea sativa* (Chestnut) leaf extracts rich in ursene and oleanene derivatives block *Staphylococcus aureus* virulence and pathogenesis without detectable resistance. (Poster presentation) **UGA Conference on Drug Discovery**. 11/18/2015. Athens, GA, USA.
48. Lyles, J.T.**; J.S. Kavanaugh, K. Nelson, C.P. Parlet, H.A. Crosby, K.P. Heilman, A.R. Horswill, C.L. Quave. *Castanea sativa* (Chestnut) leaf extracts rich in ursene and oleanene derivatives block *Staphylococcus aureus* virulence and pathogenesis without detectable resistance. (Poster Presentation) **Georgia Bio Innovation Summit**. 11/2/2015. Atlanta, GA, USA.
- † Recipient of poster award
49. Quave, C.L. Next Generation therapies for the superbug MRSA and eczema. (Oral Presentation) **Georgia Bio Innovation Summit**. 11/2/2015. Atlanta, GA, USA.
50. Muhs, A.**; J. Lyles**, K. Nelson, J. Kavanaugh A.R. Horswill and C.L. Quave. Botanical natural products inhibit *S. aureus agr* in a non-biocide manner and block exotoxin production. (poster) **Gordon Conference on Staphylococcal Diseases**. 7/12-7/17/2015. Lucca (Barga), Italy.
51. Quave, C.L. and A. Saitta. Ethnobotanical uses of wild flora and fungi on the circum-Sicilian island of Pantelleria, Italy. (Oral Presentation) **Society for Economic Botany**. 6/29-7/2/2015. Clanwilliam, South Africa.
52. Lyles, J.T.**; K. Nelson, A.R. Horswill and C.L. Quave. Structure elucidation of *S. aureus* quorum sensing inhibitors from a traditional south Italian treatment for skin infection. (Oral Presentation) **Society for Economic Botany**. 6/29-7/2/2015. Clanwilliam, South Africa.
53. Quave, C.L., J.S. Kavanaugh, K. Nelson, C.P. Parlet, H.A. Crosby, A. R. Horswill. Secrets from the past: Natural products and the future of topical anti-infectives. (poster) **Society for Investigative Dermatology**. 5/6-5/9/2015. Atlanta, GA, USA.
54. Quave, C.L. J.T. Lyles**, J.S. Kavanaugh, H.A. Crosby, K. Nelson, A.R. Horswill. Natural product quorum quenchers block MRSA virulence. (Oral Presentation) **Gram Positive Pathogen Meeting**. 10/12-10/15/2014. Omaha, NE, USA.
55. Lyles, J.T.**; P. Tyler**, K. Spelman, S.T. Pierce, C. Brown and C.L. Quave. Comparative Phytochemical Analysis of Chinese and American Starvine by HPTLC and HPLC. (poster). Annual meeting of the **Society for Economic Botany**. 5/12-5/16/2014. Cherokee, NC, USA.
56. Quave, C.L.** and A. Pieroni. Ethnzymology and TEK of the Environmental Microbiome. (Oral Presentation). Annual meeting of the **Society for Economic Botany** .5/12-5/16/2014. Cherokee, NC, USA.
57. Jiang, S.** and C.L. Quave. Foods for health, foods for medicine: A comparative study of health strategies used by Chinese and Taiwanese immigrants in metro-Atlanta. (Oral Presentation) Annual meeting of the **Society for Economic Botany**. 5/12-5/16/2014. Cherokee, NC, USA.
58. Aneke, J.**; S. Hussaini**, C.L. Quave. Phytochemical profiling of plants based on different ethnobotanical use categories. (poster). Annual meeting of the **Society for Economic Botany**. 5/12-5/16/2014. Cherokee, NC, USA.
- † Recipient of poster award
59. Quave, C.L. Natural Product Inhibitors of *Staphylococcus aureus*. **Gordon Conference: New Antibacterial Discovery and Development**. 3/16-/21/2014. Ventura, CA.
60. Quave, C.L., J.S. Kavanaugh, K. Nelson, S. Anderson** and A.R. Horswill. Natural product inhibitors of bacterial communication: The next generation of anti-infective drugs from medicinal plants. (Oral Presentation). Annual meeting of the **Society for Economic Botany**. 6/28-7/2/2013. Plymouth, England

61. Quave, C.L. Medicinal plants as mediators of microbial pathogenesis: a case study of the Italian folk pharmacopoeia for skin and soft tissue infections. (Oral Presentation). 9/2-6/2012. 13th International Congress of the **Society for Ethnopharmacology**. Graz, Austria.
62. Quave, C.L. Ethnobotanical clues for the discovery of natural product mediators of microbial pathogenesis. (poster). International **Congress on Natural Products Research: Global Change, Natural Products & Human Health**. 7/28-8/1/2012. New York, NY, USA.
63. Quave, C.L. Lab Activities for the Classroom: A Teaching Tuesday Workshop (workshop leader). 53rd Annual Meeting of the **Society for Economic Botany**. 6/2-6/8/2012. Frostburg, MD, USA
64. Quave, C.L. and A. Pieroni. Medical Ethnobotany in the Balkans: A Comparative Analysis of Results from Field Studies in Albania, Kosovo, and Serbia (Oral Presentation). 53rd Annual Meeting of the **Society for Economic Botany**. 6/2-6/8/2012. Frostburg, MD, USA
65. Quave, C.L. and A. Pieroni. Rituals for love, luck and medicine in the Mediterranean (Oral Presentation). European Mountains Panel. 53rd Annual Meeting of the **Society for Economic Botany**. 6/2-6/8/2012. Frostburg, MD, USA
66. Quave, C.L. and K. Hall. Ethnobiology teaching and learning workshop (workshop co-leader). **Society of Ethnobiology**. 4/11-14/2012. Denver, CO, USA.
67. Quave, C.L. Setting standards for ethnobiological curricula (Oral Presentation). **Association of Southeastern Biologists**. 4/4-7/2012. Athens, GA, USA.

Prior to Independent Career

68. Quave, C.L. Medicinal plants as modulators of microbial pathogenesis (Oral Presentation). 52nd Annual Meeting of the **Society for Economic Botany**. 7/6-13/2011. St. Louis, MO, USA.
69. Quave, C.L., C. Compadre, H. Hendrickson, K. Beenken, and M.S. Smeltzer. *Staphylococcus aureus* biofilm inhibition by a phenolic glycoside-rich extract of *Rubus ulmifolius*. (poster). 10th Annual **Oxford International Conference on the Science of Botanicals (ICSB)**. 4/11-14/2011. Oxford, MS, USA.
70. Ordoñez, P.**, C.L. Quave, W.F. Reynolds, K.I. Varughese, B.B. Malagon, M.S. Smeltzer, and C.M. Compadre. Sesquiterpene lactones of *Gnoxys verrucosa* and their anti-MRSA activity. (poster). 10th Annual **Oxford International Conference on the Science of Botanicals (ICSB)**. 4/11-14/2011. Oxford, MS, USA.
71. Hobby, G.**, C.L. Quave, C. Compadre, H. Hendrickson, K. Beenken, and M.S. Smeltzer. Inhibition of biofilm formation in *Staphylococcus aureus* by *Quercus cerris* extracts. (poster). 10th Annual **Oxford International Conference on the Science of Botanicals (ICSB)**. 4/11-14/2011. Oxford, MS, USA.
72. Quave, C.L., C. Compadre, H. Hendrickson, K. Beenken, and M.S. Smeltzer. *Staphylococcus aureus* biofilm inhibitors from an elmleaf blackberry extract (Oral Presentation). **International Conference on Gram Positive Pathogens**. Omaha, NE, USA. 10/10-13/2010.
73. Quave, C.L., J. Rose, and B.C. Bennett. Anti-biofilm activity of *Rosa canina* galls: a Turkish traditional medicine (Oral Presentation). 51st Annual Meeting of the **Society for Economic Botany**. Xalapa, Mexico. 6/ 6-10/2010. [Spanish]
74. Quave, C.L. Integration and management of plants as functional foods and medicines in home gardens and vineyards of southern Italy (poster). 12th **International Society of Ethnobiology Conference**. Tofino, BC, Canada. 5/9-14/2010.
75. Quave, C.L. Mal 'vjnt: ritual healing of "wind illness" in southern Italy. (Oral Presentation). 33rd Annual Meeting of the **Society of Ethnobiology**. Victoria, BC, Canada. 5/5-8/2010.

76. Ordóñez, P.**, C.L. Quave, O. Malagón, K.I. Varughese, S. Gonzalez, M.S. Smeltzer, and C.M. Compadre. The structural basis for the potent antimicrobial activity of Dehydroleucodine against MRSA and MRSE. (poster). **4th BioNanoTox and Applications Research Conference**. Little Rock, AR. 10/21-22/2009.
77. Quave, C.L. 50th Annual Meeting of the **Society for Economic Botany**. Antibiofilm activity of *Rubus ulmifolius*, an Italian medicinal plant for skin infection (Oral Presentation). Charleston, SC. 5/31- 6/4/2009.
78. Ordóñez, P.**, C.L. Quave, O. Malagón, K.I. Varughese, S. Gonzalez, M.S. Smeltzer, and C.M. Compadre. Antimicrobial activity against MRSA and MRSE and molecular structure of dehydroleucodine isolated from the Ecuadorian plant *Gynoxys verrucosa*, Wedd. (poster) **36th MALTO meeting**. Memphis, TN. 5/2009.
79. Quave, C.L. and M. Smeltzer. Anti-biofilm activity of *Rubus ulmifolius* Schott. (Rosaceae) on MRSA. (poster) 8th Annual **Oxford International Conference on the Science of Botanicals**. Oxford, MS, USA. 4/6-9/2009.
80. Quave, C.L. Liakra: Wild edible plants integral to the cuisine of ethnic Albanians (Arbëreshë) in southern Italy. (Oral Presentation) **Society of Ethnobiology 32nd Annual Conference**. New Orleans, LA, USA. 4/1-4/2009.
81. Quave, C.L., L.W.R. Plano, & B.C. Bennett. Quorum sensing inhibitors for methicillin-resistant *Staphylococcus aureus* from Italian medicinal plants. (Oral Presentation). The 49th Annual Meeting of the **Society for Economic Botany**. Durham, NC. 6/1-5/2008
 † Recipient of best oral presentation award
82. Quave, C.L. Zootherapeutic remedies in the traditional pharmacopoeia of southern Italy. (Oral Presentation) **Society of Ethnobiology 31st Annual Conference**. Fayetteville, AR, USA. 4/16-19/2008.
83. Quave, C.L., L.R.W. Plano and B.C. Bennett. Quorum sensing inhibiting activity of *Schinus terebinthifolius* Raddi (Anacardiaceae) extracts against MRSA. (poster) 7th Annual **Oxford International Conference on the Science of Botanicals and American Society of Pharmacognosy 4th Interim Meeting**. University, MS, USA. 4/12-16/2008.
 † Recipient of poster award
84. Quave, C.L. Anti-biofilm activity of white horehound extract on methicillin-resistant *Staphylococcus aureus*. (Oral Presentation). **Florida International University Graduate Student Association Scholarly Forum**. Miami, FL, USA. 4/9/2008.
85. Quave, C.L. An ethnopharmacological approach to multidrug-resistant *Staphylococcus aureus*: Evaluation of Italian plants used in the traditional healing of skin disease (Oral Presentation). **Doctoral Dissertation Defense at Florida International University**. Miami, FL, USA. 3/12/2008.
86. Quave, C.L. and B.C. Bennett. Cytotoxicity and the creation of a therapeutic index for ranking plant extracts with antibacterial potential. **Comparative Immunology Symposium. Florida International University**. Miami, FL, USA, 3/6-7/2008.
87. Quave, C.L. and B.C. Bennett. Effects of extracts of *Ballota nigra* on biofilm formation and adherence in methicillin-resistant *Staphylococcus aureus*. (Oral Presentation) **Biology Research Symposium of Florida International University**. Kampong Botanical Garden. Miami, FL, USA. 2/16/2008.
88. Quave, C.L. & B.C. Bennett. The search for new anti-staphylococcal leads: comparing the antibacterial efficiency of Italian plants based on ethnobotanical use categories. (Oral

- Presentation). The 48th Annual Meeting of the **Society for Economic Botany**. Chicago, IL. 6/4-7/2007.
89. Mendez, S., C.L. Quave, J. Graham, J. Gaskin, and B.C. Bennett. Anti-*Pseudomonas* activity of selected plants used in traditional ethnoveterinary practices. (Oral Presentation). The 48th Annual Meeting of the **Society for Economic Botany**. Chicago, IL. 6/4-7/2007.
 90. Quave, C.L. Zootherapy: Some unusual cases from south Italy. (Oral Presentation). **Biology Research Symposium of Florida International University**. Miami, FL, USA. 1/27/2007.
 91. Quave, C.L. Integration and management of plants as functional foods and medicines in home gardens and vineyards of southern Italy. (Poster and Oral Presentation). **USDA Agroecology Symposium** at Florida International University. Miami, FL, USA. 10/23/2006.
 92. Quave, C.L. Ethnobotanical applications of *Arundo donax* L. [Poaceae] in south Italy. (Oral Presentation), **Florida International University Plant Talk Series**. Miami, FL, USA. 6/9/2006.
 93. Quave, C.L., A. Pieroni, and B.C. Bennett. An ethnobotanical survey of medicinal plants for the treatment of skin disease in southern Italy, (Oral Presentation), 47th Annual Meeting of the **Society for Economic Botany**. Chiang Mai, Thailand. 6/5-8/2006.
 94. Quave, C.L., J. Graham, S. Mendez, L.R.W. Plano, and B.C. Bennett. A comparative assessment of microbiological methods for natural product antibacterial screening, (Oral Presentation), 4th **International Congress on Natural Products**. Leysin, Switzerland. 5/28-31/2006.
 95. Quave, C.L., A. Pieroni, & B.C. Bennett. Ethnomedical practices of ethnic Albanians in Lucania, S. Italy: A glance at botanical remedies, (Oral Presentation), **Biology Research Symposium of Florida International University**. Miami, FL, USA. 1/28/2006.
 96. Quave, C.L., J. Graham, S. Mendez, L. Plano, K. Downum, and B.C. Bennett. Activity of Florida plants against clinical isolates of methicillin-resistant *Staphylococcus aureus* (MRSA), (Oral Presentation), 46th Annual Meeting of the **Society for Economic Botany**. Fort Worth, Texas, USA. 6/5-9/2005.
 97. Quave, C.L., J. Graham, L. Plano, and B.C. Bennett. Natural products activity against clinical isolates of multi-drug resistant *Staphylococcus aureus* (Oral Presentation), **Florida International University Biomedical and Comparative Immunology Symposium**. Miami, Florida, USA, 3/3-4/2005.
 98. Quave, C.L. and A. Pieroni. Crossing ethnic borders: Ethnopharmacy of the Arbëreshë in Southern Italy (Oral Presentation), Joint Congress of the: 9th **International Congress of the International Society for Ethnobiology; 45th Annual Meeting of the Society for Economic Botany; and the 8th International Congress of the International Society of Ethnopharmacology**: Ethnobiology, Social Change and Displacement. Canterbury, England, 6/13-17/2004.
 99. Pieroni, A., C. Quave, H. Münz, S. Nebel and M. Heinrich. Food ethnobotanicals and linguistic diversity in Lucania, southern Italy (paper), 8th International Congress of the **International Society for Ethnobiology**: People and Biodiversity. Addis Abeba, Ethiopia, 9/16-20/2002.
 100. Quave, C. and A. Pieroni. Healing with sacred and medicinal plants of three Arbëreshë communities of southern Italy (Oral Presentation), 3rd **International Congress of Ethnobotany**. Naples, Italy, 9/22-30/2001. [Italian]
 101. Quave, C. and A. Pieroni. Ritual medical practices and traditional plant remedies used in three Arbëreshë communities of southern Italy (Oral Presentation), 7th **International Congress of the International Society for Ethnology and Folklore**: Time, Places, Passages. Budapest, Hungary, 4/23-29/2001.

102. Quave, C.L. Plants and pills: Health consequences of Western medicine in the Peruvian Amazon (Oral Presentation) **International Society for Ethnobiology**: Earth Congress. Athens, Georgia, USA 10/23-27/2000.

Emory Research Symposia

1. Jarrar, N., S. Woo**, L., Marquez**, C.L. Quave. Identifying Bioactive Compounds in Plants Using Flash Column Chromatography and Preparative High-Performance Liquid Chromatography (Poster Presentation) Emory University Undergraduate Research Symposium. Atlanta, GA, USA. 4/2022
2. Kittleson, B., S. Woo, C.L. Quave. Effective Methods of Extraction, Isolation, and Identification of Bioactive Compounds from Plants. (Poster Presentation) Emory University Undergraduate Research Symposium. Atlanta, GA, USA. 4/2022
3. Menkart, M., E. Edwards, W. Crandall**, C.L. Quave. Development of a Training Module and Literature Assessment for a Cytochrome P450 Inhibition Assay. (Poster Presentation) Emory University Undergraduate Research Symposium. Atlanta, GA, USA. 4/2022
4. Keyes, S., I. Joseph**, C. Risener**, C.L. Quave. Identifying Bacterial Persistence in Isolates from Chronic Recurrent Urinary Tract Infections. (Poster Presentation) Emory University Undergraduate Research Symposium. Atlanta, GA, USA. 4/2022
5. Cavagna, L., S. Woo**, M. Caputo, C.L. Quave. Alkaloid Extraction and Characterization in *Amsonia tabernaemontana* Walter, Apocynaceae. (Poster Presentation) Emory University Undergraduate Research Symposium. Atlanta, GA, USA. 4/2022
6. Snoddy, A., T. Samarakoon, C.L. Quave. Taxonomic Findings in the Herbarium: Investigating the “Ferns of Jamaica” Specimen Collection Book (Poster Presentation) Emory University Undergraduate Research Symposium. Atlanta, GA, USA. 4/2022
7. J. Zhong, M. Lin, M.J. Dettweiler, S.C. Chen, C. L. Quave. Change in skin microbial density observed in patients receiving immunotherapy against melanoma. (Poster Presentation) Emory University Undergraduate Research Symposium. Atlanta, GA, USA. 4/2019
8. S. Hanson, R. Pineau**, J.T. Lyles. C. L. Quave. Anti-acne bioactivity and chemical characterization of a medicinal plant. (Poster Presentation) Emory University Undergraduate Research Symposium. Atlanta, GA, USA. 4/2019.
9. Z. Cooper, M. Dettweiler, M. Salazar, J.T. Lyles, C. L. Quave. Antibacterial activity of medicinal plants of the Choctaw Nation against *Acinetobacter baumannii*. (Poster Presentation) Emory University Undergraduate Research Symposium. Atlanta, GA, USA. 4/2019
10. Bassit, L., J.T. Lyles, K. Virma, L. Goldring, O. Russell, C. Gavegnano, J. Kohler, C. Quave, R.F. Schinazi. Novel medicinal plant/fungal extract is potent and selective inhibitor of Zika virus (Poster Presentation). 2018 Botanical Research Symposium and Celebration at Emory University. Atlanta, GA. 9/2018.
11. Vardeman, E., A. Schiffer, S. Hanson, L. Giencke, T. Samarakoon, A. Maduka, J.T. Lyles, K. Bagger, M. Salazar, C.L. Quave. Analysis of the Antimicrobial Properties of *Pluchea rosea*. (poster). 2018 Emory University Summer Undergraduate Research Experience Symposium. Atlanta, Georgia. 8/2/2018.
12. Schiffer, A., S. Hanson, L. Giencke, T. Samarakoon, A. Maduka, E. Vardeman, J.T. Lyles, K. Bagger, M. Salazar, C.L. Quave. Antibacterial Activity of *Prunus serotina* Against ESKAPE

- Pathogens. (poster) 2018 Emory University Summer Undergraduate Research Experience Symposium. Atlanta, Georgia. 8/2/2018.
13. Bagger, K., A. Schiffer, S. Hanson, L. Giencke, T. Samarakoon, A. Maduka, E. Vardeman, J.T. Lyles, M. Salazar, C.L. Quave. Antimicrobial Activity of *Ptelea trifoliata* against ESKAPE Pathogens. (poster). 2018 Emory University Summer Undergraduate Research Experience Symposium. Atlanta, Georgia. 8/2/2018.
 14. Garrido-Fajardo, S., A. Schiffer, S. Hanson, L. Giencke, T. Samarakoon, A. Maduka, E. Vardeman, K. Bagger, M. Salazar, J.T. Lyles, C.L. Quave. Antimicrobial Potential of *Chionanthus virginicus*. (poster). 2018 Emory University Summer Undergraduate Research Experience Symposium. Atlanta, Georgia. 8/2/2018.
 15. Maduka, A., A. Schiffer, S. Hanson, L. Giencke, T. Samarakoon, A. Maduka, E. Vardeman, J.T. Lyles, K. Bagger, M. Salazar, C.L. Quave *Nymphaea odorata*: Analyzing Growth Inhibition of ESKAPE Pathogens (poster) 2018 Emory University Summer Undergraduate Research Experience Symposium. Atlanta, Georgia. 8/2/2018.
 16. M. Xu, E. Gurnee**, K. Nelson, K. Lehman**, B. Dale, A. Salam**, R. Swerlick, C.L. Quave. Relationship between the severity of atopic dermatitis symptoms and the hemolytic activity of staphylococcal isolates. (Poster). Emory University Undergraduate Research Symposium. 4/2018. Atlanta, GA, USA.
 17. Feng, J.**, H. Tang**, B. Dale, J.T. Lyles, C.L. Quave. Development of a Brazilian Peppertree Extract with Anti-virulence Activity Against MRSA. (Poster). Emory University Undergraduate Research Symposium. 4/2018. Atlanta, GA, USA.
 18. K. Lee**, J.T. Lyles, C.L. Quave. Method Development for the Chemical Characterization of *Schinus terebinthifolia* leaf extract. (Poster). Emory University Undergraduate Research Symposium. 4/2018. Atlanta, GA, USA.
 19. S. Volet**, E. Ejzak, Z. Salam, D. Kalman, J.T. Lyles, T. Samarakoon, C.L. Quave. Chemical composition and healthspan extending activity of plant extract 1331 from the Quave Natural Product Library. (Poster). Emory University Undergraduate Research Symposium. 4/2018. Atlanta, GA, USA.
 20. Salam, A.**, J.T. Lyles, K. Nelson, C.L. Quave. Fractionation of enriched *Castanea sativa* leaf extract 224C-F2 yields quorum quenchers with enhanced bioactivity. (Poster Presentation) Emory University Antibiotic Resistance Symposium. 1/2018. Atlanta, GA, USA.
 21. Feng, J.**, J.T. Lyles, K. Nelson, C.L. Quave. Development of a Brazilian Peppertree extract with anti-virulence activity. (Poster Presentation) Emory University Undergraduate Research Symposium. 7/2017. Atlanta, GA, USA.
 22. Swanier, J.**, J.T. Lyles, C.L. Quave. Comparative phytochemical analysis of *Citrullus ecirrhosus* and *Citrullus mucosospermus* using HPLC and LC-MS. (Poster Presentation) Emory University Undergraduate Research Symposium. 7/2017. Atlanta, GA, USA.
 23. Lou, K.**, T. Samarakoon, C. Brown, and C.L. Quave. An ethnobotanical survey of anti-cancer medicinal plants historically used by the Creek and Cherokee tribes. (Poster Presentation) Emory University Undergraduate Research Symposium. 4/2017. Atlanta, GA, USA.
 24. Park, J.**, A. Bullard-Roberts**, J.T. Lyles**, K. Nelson, C.L. Quave. Impact of aqueous plant extracts on growth of ESKAPE pathogens. (Poster Presentation) Emory University Undergraduate Research Symposium. 4/2017. Atlanta, GA, USA.
 25. Williams, A.**, J.T. Lyles**, K. Nelson, C.L. Quave. Efficacy of *Momordica charantia* for the mitigation of *Streptococcus pyogenes*-induced postpartum infection and hemorrhage. (Poster

- Presentation) Emory University Undergraduate Research Symposium. 4/2017. Atlanta, GA, USA.
26. Chou, N.** , A.L. Bullard-Roberts**, J.T. Lyles**, K.S. Nelson, C.L. Quave. Discovery of new chemical entities against ESKAPE pathogens. (Poster Presentation) Emory University Undergraduate Research Symposium. 4/2017. Atlanta, GA, USA.
 27. Quave, C.L. Virulence Inhibitors from Brazilian Peppertree Block Quorum Sensing and Abate Dermonecrosis in Skin Infection Models (Oral Presentation) Emory University Department of Dermatology Grand Rounds Faculty Niche Talk. 8/2016. Atlanta, GA, USA.
 28. Qui, C.** , T. Samarakoon, C. Brown, S.T. Pierce, C.L. Quave. 8/2016. Assessment of floristic composition to elucidate flora change at Lullwater preserve. (Poster Presentation) Summer Undergraduate Research at Emory (SURE) Symposium. Atlanta, GA, USA.
 29. Kim, A.** , J.T. Lyles**, K. Nelson, C.L. Quave. 8/2016. Chemical elucidation and antibacterial activity of a traditional oil macerate of *Hypericum perforatum*. (Poster Presentation) Summer Undergraduate Research at Emory (SURE) Symposium. Atlanta, GA, USA.
 30. Li, T.** , K. Nelson, C.L. Quave. Anti-acne activity of *Schinus terebinthifolia*, a medicinal plant traditionally used to treat skin and soft tissue infections. (Poster Presentation) Emory Undergraduate Research Symposium. 4/2016. Atlanta, GA, USA.
 31. Zhang, X.**#, X. Huang**#, J.T. Lyles**, C.L. Quave. Investigate and compare chemical compositions in *Ginkgo biloba* products. 4/2016. Emory Undergraduate Research Symposium. Atlanta, GA, USA.
 32. Kim, A.** , J.T. Lyles**, and C.L. Quave. Identifying active compounds extracted from *Hypericum perforatum* to characterize a traditional oleolite. (Poster Presentation) Emory Chemistry Research Symposium. 4/2016. Atlanta, GA, USA.
 33. Lee, R.** , K. Nelson, J.T. Lyles**, C.L. Quave. An investigation into the anti-acne activity of botanical extracts. Emory Biology Research Symposium. 4/2016. Atlanta, GA, USA.
 34. Huang, X.** and C.L. Quave. Assessment of botanical families from the Emory University Herbarium Mediterranean collection. Emory Undergraduate Research Symposium. 7/30/2015. Atlanta, GA.
 35. Dettweiler, M.** , J.T. Lyles**, K. Nelson, and C.L. Quave. Civil War medicinal plants inhibit *Staphylococcus aureus* biofilms. Emory Undergraduate Research Symposium. 7/30/2015. Atlanta, GA.
 36. Addie-Noye, E.** , K. Nelson, J.T. Lyles** and C.L. Quave. Growth inhibitory activity of plant extracts against *Propionibacterium acnes* clinical isolates. Emory Undergraduate Research Symposium. 7/30/2015. Atlanta, GA.
 37. Lee, R.** , K. Nelson, J.T. Lyles** and C.L. Quave. Total flavonoid quantification in botanical products through method optimization of the SBC assay. (Poster Presentation) Emory Biology Research Symposium. 4/21/2015. Atlanta, GA.
 38. Mottaghi, F.** , J.T. Lyles** , A. Hajdari and C.L. Quave. Comparative study on methods of extraction of *Rubus ulmifolius* secondary metabolites. (Poster Presentation) Emory Chemistry Research Symposium at Emory. 4/24/2015. Atlanta, GA.
 39. Dettwieller, M.** , E.J. Bradbury and C.L. Quave. Plants used as antiseptics in the American Civil War. (Poster Presentation) SIRE Research Symposium at Emory. 4/22-4/23/2015. Atlanta, GA.
 40. Dorian, M.** , E. Seitaridou and C. L. Quave. Extending the use of diffusion coefficients as a means of analyzing the rate of growth and development of biofilms. (Poster Presentation) SIRE Research Symposium at Emory. 4/22-4/23/2015. Atlanta, GA.

41. Muhs, A.** and C.L. Quave. Investigation of natural product quorum quencher effectiveness in staphylococcal infections. (Poster Presentation) SURE research symposium. 7/31/2014. Atlanta, GA, USA.
42. Muhs, A.** and C.L. Quave. Investigation of natural product quorum quencher effectiveness in staphylococcal infections. (Poster Presentation). Emory Undergraduate Research Symposium. 4/21-4/25/2014. Atlanta, GA.
43. Tyler, P.** , I. Buller**, K. Nelson, J.T. Lyles** and C.L. Quave. Isolation of novel bioactive constituents from Elmleaf Blackberry. (Poster Presentation). Emory Undergraduate Research Symposium. 4/21-4/25/2014. Atlanta, GA.
44. Aneke, J.** and C.L. Quave. Do medicinal plants have higher tannin content than plants not used for medicinal purposes? (Poster Presentation). Emory Undergraduate Research Symposium. 4/21-4/25/2014. Atlanta, GA.
45. Hussaini, S.** and C.L. Quave. Polyphenolic Content of Medicinal Plants vs. Non-Medicinal Plants Using the CUPRAC Assay. (Poster Presentation). Emory Undergraduate Research Symposium. 4/21-4/25/2014. Atlanta, GA.
46. Wang, B.** and C.L. Quave. Analysis of Phenolic Content between Medicinal and Non-medicinal Plants. Emory Undergraduate Research Symposium. 4/21-4/25/2014. Atlanta, GA.
47. Jariwala, P.** and C.L. Quave. Synthesizing a probe to elucidate the mechanism by which ellagic acid inhibits biofilm formation in *Staphylococcus aureus*. (Poster Presentation). Scholarly Inquiry and Research at Emory Undergraduate Research Symposium. 4/23/13. Atlanta, GA.
48. Anderson, S.** K. Nelson and C.L. Quave. Medicinal plants to improve human health: Bioassay-guided fractionation of anti-pathogenic *Rubus ulmifolius* extracts. (Poster Presentation). Scholarly Inquiry and Research at Emory Undergraduate Research Symposium. 4/23/13. Atlanta, GA.
49. Jiang, S.** and C.L. Quave. A comparison of traditional food and health strategies among Chinese and Taiwanese immigrants in Atlanta. Emory Undergraduate Research Symposium. Fall 2012. Atlanta, GA.

SERVICE

Committee Memberships

National and International Committee Service

- Chair, Bylaws and Protocol Committee, Society for Economic Botany, 2021-2024
- Chair, Varro E. Tyler Prize Committee, American Society of Pharmacognosy, 2020-2021
- Member, Constitution and Bylaws Committee, American Society of Pharmacognosy, 2018-2021.
- Member, Frank N. Meyer Medal for Plant Genetic Resources Committee, Crop Science Society of America, Liason for the Society for Economic Botany, 2018-2021
- Member, International Advisory Scientific Committee, AMR Control, WAAAR – World Alliance Against Antibiotic Resistance, 2017-present
- Chair, Endowment Committee, Society for Economic Botany, 2016-2017
- Chair, Nominations and Awards Committee, Society for Economic Botany, 2016-2017
- Chair, Social Media Committee, Society for Economic Botany, 2015-2018
- Chair, Education and Outreach Committee, Society for Economic Botany, 2015-2016
- Chair, Executive Committee, Society for Economic Botany, 2015-2016
- Chair, Membership Committee, Society for Economic Botany, 2014-2015

- Ethics-Coordinator, Ethics Committee, Society of Ethnobiology, 2010-2011
- Member, Society for Economic Botany Student Committee, 2006-2008

Institutional Committee Service

- Member, Ad hoc hiring and recruitment committee for a senior organic chemistry faculty position in the Chemistry Department, 2021-2022.
- Member, Executive Committee, Molecular and Systems Pharmacology Program, 2020-
- Chair, Communications Committee, Molecular and Systems Pharmacology Program, 2020-
- Member, Ad hoc committee for student recruitment and application reviews, Microbiology and Molecular Genetics Program, 2020
- Member, Service Center Advisory Board, Emory College of Arts and Sciences, 2019-present
- Member, Internal Advisory Committee, Biological Discovery through Chemical Innovation Initiative, 2019-present
- Member, Research Administration Faculty Advisory Board, Emory University (2-year term) 2019-2021.
- Member, SOM Research Strategic Plan Fundamental Sciences Stakeholder Team, 2018
- Member, Ad hoc committee for Student Grade Appeal, GDBBS MMG Program, 2018
- Member and Web-designer, Emory University WiSE (Women in Science at Emory), 2017-present
- Chair, Center for the Study of Human Health Speaker Series Committee, 2017-present
- Member, Sustainability Faculty Advisory Council, 2016-present
- Member, Internal Advisory Board, Emory Antibiotic Resistance Center, 2016-present
- Member, Ad hoc committee for Doctoral Oral Exam Defenses, GDBBS MSP Program, 2016, 2017, 2018
- Member, Executive Committee, Molecular and Systems Pharmacology Program, 2016-2018
- Chair, Curriculum Committee, Molecular and Systems Pharmacology Program, 2016-2018
- Co-chair, Seminar Scheduling, Microbiology and Molecular Genetics Program, 2016-2018
- Member, Executive Committee, Microbiology and Molecular Genetics Program, 2016-2018
- Member, Molecular Systems Pharmacology Graduate Program Examination Committee, 2015-2016
- Member, Grade Dispute Panel of the Center for the Study of Human Health, 2015-2016
- Chair, Herbarium Advisory Committee Chair; 2014-present

Society Memberships and Service Roles

- The Explorers Club
 - Fellow, 2019-present
- Society of Herbarium Curators, 2015-present
- Society of Ethnobiology (SoE), 2008-2013
 - Ethics coordinator, 2010-2011
- Society for Economic Botany (SEB), 2003-present
 - Student Listserv Monitor, 2008-2011
 - Council Member at Large, 2010-2013
 - President-Elect, 2014-2015
 - President, 2015-2016
 - Immediate Past-President (board position), 2016-2017
- American Society for Microbiology (ASM), 2004-2011; 2017-present

- American Chemical Society (ACS),
- International Society of Ethnopharmacology (ISE), 2003-2004, 2010-2012, 2017-2018
- American Society of Pharmacognosy (ASP), 2007-present
 - Newsletter Editor for “Field Notes” section, 2018-2021
 - Member, Constitution and Bylaws Committee, 2019-present
 - Chair, Tyler Prize Committee, 2020-2021
- Society for Investigative Dermatology (SID), 2014-present
 - Board of Directors, 2021-2026
- Open Science Network in Ethnobiology, 2010
 - Core Team Member, 2010-2013
 - Vice-President, 2013-2015
- International Society for Ethnology and Folklore (SIEF), 2001-2002
- International Society of Ethnobiology (ISE), 2001-2002, 2010-2012

Organization of Conferences and Symposia

International and National

- Chair, Meeting Organizing Committee, Society for Economic Botany 56th Annual Conference in Clanwilliam, South Africa, 2014-2015
- Reviewer for conference abstracts, Society for Economic Botany, Clanwilliam, South Africa, 6/2015
- Oral presentation judge, Society for Economic Botany meetings, 2012, 2015, and 2016

Institutional

- Oral presentation judge, Emory STEM Research Symposium, 2018
- Chair, Symposium Organization Committee, Botanical Research Symposium and Celebration at Emory University, Atlanta, GA 9/2018
- Poster presentation judge, Emory STEM Research Symposium, 2013, 2014, and 2016
- Reviewer for symposium abstracts, Emory University, Emory-Laney Graduate School STEM Research and Career symposium, 2/2015

Editorships and Editorial Boards

1. Editorial Board, *Journal of Ethnobiology and Ethnomedicine*, 2008-present
2. Editorial Board, *Contributions in Ethnobiology*, 2010-present
3. Editorial Board, *Ethnobiology and Conservation*, 2012-present
4. Editorial Board, *Evidence Based Complementary and Alternative Medicine*, 2011-2015
5. Associate Editor, *Frontiers in Pharmacology*, 2017-present
6. Editorial Board, *Scientific Reports*, Infectious Diseases Section, 2018-
7. Editorial Board, *Natural Product Reports*, Royal Society of Chemistry, 2021-2024

Peer Review Activities: Grants

External Grant Reviews: National Institutes of Health (USA)

1. National Institutes of Health, Ad hoc reviewer, 2021/10 ZGM1 RCB-2 (C1), National Institute of General Medical Sciences Special Emphasis Panel. COBRE. 6/21/2021.
2. National Institutes of Health, Ad hoc reviewer, 2021/05 ZAT1 PS (02) 2, NCCIH Training and Education Review Panel (CT). 2/22/2021

3. National Institutes of Health, Ad hoc reviewer, 2020/10 ZGM1 RCB-9 (C1), COBRE panel. 7/10/2020.
4. National Institutes of Health, Ad hoc reviewer, 2020/01 ZAT1 JM (06) L, NCCIH Training, Fellowship, and Career Development Review Panel (CT). 11/12-13/2019.
5. National Institutes of Health, Ad hoc reviewer, Special Emphasis Panel/Scientific Review Group, 2019/08 ZNS1 SRB-H (07) R, HEAL: Optimization of Non-addictive Therapies [Small Molecules and Biologics] to Treat Pain. 7/26/2019.
6. National Institutes of Health, Ad hoc reviewer, 2019/10 ZAT1 JM (05) L, NCCIH Training, Fellowship, and Career Development Review Panel (CT). 7/19/19.
7. National Institutes of Health, Ad hoc reviewer, Special Emphasis Panel/Scientific Review Group, 2019/08 ZNS1 SRB-H (05) 1, HEAL: Optimization of Non-addictive Therapies [Small Molecules and Biologics] to Treat Pain. 6/3-4/2019
8. National Institutes of Health, Ad hoc reviewer, Special Emphasis Panel/Scientific Review Group 2019/05 ZRG1 IDM-X (10) B Small Business: Non-HIV Anti-Infective Therapeutics, 3/18-19/2019
9. National Institutes of Health, CSR, Ad hoc reviewer, 2019/05 ZRG1 IDM-S (83) A, "Infectious Diseases and Microbiology AREA Review", 3/11/19
10. National Institutes of Health, Ad hoc reviewer, 2019/01 ZAT1 VS (12) 1 Fellowship, Career Development, and Research Grant Programs, NCCIH, 11/30/2018
11. National Institutes of Health, Ad hoc reviewer, Special Emphasis Panel/Scientific Review Group 2019/01 Non-HIV Anti-Infective Therapeutics (ZRG1 IDM-X (10)B) "Small business: Non-HIV Anti-Infective Therapeutics", NIH/CSR, 11/14/2018-11/15/2018.
12. National Institutes of Health, CSR, Ad hoc reviewer, P20 (COBRE Phase 1), 7/10/2018-7/11/2018
13. National Institutes of Health, Ad hoc reviewer, Fellowship, Career Development, and Research Grant Programs, NCCIH, 4/5/2018
14. National Institutes of Health, Ad hoc reviewer, Special Emphasis Panel/Scientific Review Group 2018/01 Non-HIV Anti-Infective Therapeutics (ZRG1 IDM-X (10)B) "Small business: Non-HIV anti-infective Therapeutics", NIH/CSR, 3/26/2018-3/27/2018
15. National Institutes of Health, Ad hoc reviewer, Special Emphasis Panel/Scientific Review Group 2018/01 ZRG1 IDM-X (10) B "Small business: Non-HIV anti-infective Therapeutics", NIH/CSR, 11/6/2017-11/7/2017
16. National Institutes of Health, Ad hoc reviewer, Fellowship, Career Development, and Research Grant Programs (2018/01 ZAT1 VS (06) 1), NCCIH, 11/8/2017
17. National Institutes of Health, Ad hoc reviewer, Special Emphasis Panel/Scientific Review Group Non-HIV Anti-Infective Therapeutics (201701 ZRG1 IDM-X (10)B), NIH/CSR, 11/14/2016-11/15/2016.
18. National Institutes of Health, Ad hoc reviewer, Special Emphasis Panel/Scientific Review Group 2016/10 ZRG1 IDM-M (07) M, NIH/CSR, 7/18/2016
19. National Institutes of Health, Ad hoc reviewer, Special Emphasis Panel/Scientific Review Group 2016/10 ZRG1 IDM-S (81) A, AREA application in Infectious Diseases and Microbiology, NIH/CSR, 7/18/2016
20. National Science Centre, Poland, Ad hoc reviewer, (Narodowe Centrum Nauki - NCN; <http://www.ncn.gov.pl>), 4/10/2016.

21. National Institutes of Health, Ad hoc reviewer, Special Emphasis Panel/Scientific Review Group 2016/05 ZRG1 IDM-X (10) B “Small business: Non-HIV anti-infective Therapeutics”, NIH/CSR, 4/4/2016-4/5/2016
22. National Institutes of Health, Ad hoc reviewer, 2016/05 ZAT1 SM (40) S Training and Education, NCCIH,3/17/2016
23. National Institutes of Health, Ad hoc reviewer, 2016/01 ZAT1 SM (39) L Training and Education, NCCIH, 11/19/2015
24. National Institutes of Health, Ad hoc reviewer, 2016/01 ZRG1 IDM-X (10) B, Small Business: Non-HIV Anti Infective Therapeutics, NIH, CSR, 11/12-11/13/2015
25. National Institutes of Health, Ad hoc reviewer, 2016/01 ZRG1 IDM-V (07) B, Small Business: Non-HIV Infectious Diseases Therapeutics, NIH, CSR, 11/12/2015
26. National Institutes of Health, Ad hoc reviewer, Special Emphasis Panel/Scientific Review Group ZRG1 IDM-X (10)B “Non-HIV Anti-Infective Therapeutics”, NIH/CSR, 2015
27. National Institutes of Health, Ad hoc reviewer, Special Emphasis Panel/Scientific Review Group 2015/10 ZRG1 IDM-V (07) B “Small Business: Therapeutics for Infectious Diseases”, NIH/CSR, 2015
28. National Institutes of Health, Ad hoc reviewer, Special Emphasis Panel/Scientific Review Group ZRG1 IDM-X (10)B for SBIR/STTR “Non-HIV Anti-Infective Therapeutics”, NIH/CSR, 2015
29. National Institutes of Health, Ad hoc reviewer, Special Emphasis Panel/Scientific Review Group 2015/01 ZRG1 IDM-10 for SBIR/STTR “Non-HIV Anti-Infective Therapeutics”, NIH/CSR, 2015
30. National Institutes of Health, Ad hoc reviewer, Special Emphasis Panel/Scientific Review Group 2015/01 ZRG1 IDM-U (10) B for SBIR/STTR “Non-HIV Anti-Infective Therapeutics”, NIH/CSR, 2014
31. National Institutes of Health, Ad hoc reviewer, Special Emphasis Panel/Scientific Review Group 2014/10 ZRG1 IDM-U (10) B for SBIR/STTR “Non-HIV Anti-Infective Therapeutics”, Center for Scientific Review (NIH/CSR), 2014
32. National Institutes of Health, Ad hoc reviewer, ZAT1 SM (29) National Center for Complementary and Alternative Medicine Special Emphasis Panel Natural products RFA (RFA-AT-11-011: Mechanistic Research on CAM Natural Products R01), 2013
33. National Institutes of Health, Ad hoc reviewer, ZAT-1 PK-24 Education Panel, NIH/NCCAM, 2012
34. National Institutes of Health, Ad hoc reviewer, ZAT-1 PK-23 Education Panel, NIH/NCCAM, 2012
35. National Institutes of Health, Ad hoc reviewer, ZAT-1 PK-21 Education Panel, NIH/NCCAM, 2012
36. National Institutes of Health, Ad hoc reviewer, ZAT-1 PK-20 Education Panel, NIH/NCCAM, 2011
37. National Institutes of Health, Ad hoc reviewer, ZAT1 PK-19 Education Panel, National Center for Complementary & Alternative Medicine (NIH/NCCAM), 2011

External Grant Reviews: Other National and International

1. Review Panel Chair. (*Renewed for second term as panel chair*) Fonds Wetenschappelijk Onderzoek (FWO) Expert Review Panel, Brussels, Belgium: Med1 (Pharmaceutical Sciences and Medical Biochemistry) Project panel, 3 year appointment, 2021-2024
2. COVID-19 panel, Fonds Wetenschappelijk Onderzoek (FWO) Expert Review Panel, Brussels, Belgium, Ad hoc reviewer, 10/2020

3. The National Research Foundation (NRF), Prime Minister's Office of Singapore. Ad hoc reviewer. 01/2020
4. UK Research and Innovation (UKRI) Future Leaders Fellowships Proposal, Ad hoc reviewer. 08/2019
5. Botany in Action Fellowship Program, Phipps Conservatory and Botanical Gardens, 3/2019
6. Review Panel Chair. Fonds Wetenschappelijk Onderzoek (FWO) Expert Review Panel, Brussels, Belgium: Med1 (Pharmaceutical Sciences and Medical Biochemistry) Project panel, 3 year appointment, 2019-2021
7. Medical Research Council (MRC - United Kingdom), Ad hoc reviewer, UK-China AMR Centre Partnerships 2018, 8/2018
8. Botany in Action Fellowship Program, Phipps Conservatory and Botanical Gardens, Ad hoc reviewer, 2/28/2018.
9. Research Foundation Flanders (FWO), Belgium, Ad hoc reviewer, 9/2017
10. The Indonesian Science Fund (DIPI), Ad hoc reviewer, 9/27/2016
11. Research and Exploration Program, Ad hoc reviewer, National Geographic, 2013
12. Indonesia Biological Sciences Research Grant Program, CRDF Global, Ad hoc reviewer, 2013

Institutional Grant Reviews

1. Emory School of Medicine Bridge Funding Program, Emory University, 2020
2. University Research Council (URC) Biological & Health Sciences Sub-Committee, Emory University, 2015, 2020

Peer Review Activities: Manuscripts

***Began tracking numbers of reviews per journal on [Publons](#) in 2021*

Journal Manuscripts

1. *Proceedings of the National Academy of Sciences*, 2021
2. *Dermatology and Therapy*, 2020
3. *Journal of Microbiological Methods*, 2020
4. *International Journal of Dermatology*, 2020
5. *Phytochemistry*, 2019
6. *MedChemComm*, 2019
7. *Natural Product Reports*, 2018
8. *mBio*, 2018-2019
9. *Infection and Immunity*, 2018-2019, 2020
10. American Botanical Council *Herbalgram*, 2018-2019
11. *Microbial Drug Resistance*, 2017-2019
12. *Antimicrobial Agents and Chemotherapy*, 2017-2019
13. *Clinical Microbiology Reviews*, 2017-2019
14. *Frontiers in Pharmacology*, 2017-2020
15. *Frontiers in Microbiology*, 2017-2019
16. *PLoS One*, 2016-present
17. *Microbial Pathogenesis*, 2016-2019
18. *Nature Plants*, 2016-present
19. *Recent Patents in Biotechnology*, 2016-2018
20. *Ecohealth*, 2016
21. *Scientific Reports*, 2016-2020 [3]

22. *Ethnobiology Letters*, 2016-2017
23. *Journal of Herbal Medicine*, 2016-2017
24. *Molecules*, 2009-2011; 2016-2017
25. *Journal of Investigative Dermatology*, 2015-2019
26. *Expert Opinion on Therapeutic Patents*, 2015-2017
27. *Current Anthropology*, 2015-2017
28. *PeerJ*, 2015-2019
29. *Economic Botany*, 2014-2019
30. *European Journal of Medicinal Chemistry*, 2014-2016
31. *Applied Biochemistry and Biotechnology*, 2014-2015
32. *BMC Complementary and Alternative Medicine*, 2013-2017
33. *AMBIO: A Journal of the Human Environment*, 2013-2014
34. *Scientia*, 2013-2014
35. *Journal of Ethnopharmacology*, 2012-2020
36. *Ethnobotany Research and Applications*, 2012-2015
37. *Collegium Antropologicum*, 2011
38. *Oriental Pharmacy and Experimental Medicine*, 2010-2011
39. *Letters in Applied Microbiology*, 2010-2015
40. *Journal of Applied Microbiology*, 2010-2015
41. *African Journal of Biotechnology*, 2008-2010

Book Proposals (Listed by Publisher)

1. Elsevier, 2018
2. CRC Press, 2016
3. Elsevier, Chemistry Acquisitions Division, 2015
4. Garland Science, 2015

Peer Review Activities: Career Development and Tenure

1. University of Warwick. Faculty Promotion Letter, 2021
2. National Research Foundation (NRF) of South Africa, Faculty Research Productivity and Standing Evaluation, 2018
3. National Research Foundation (NRF) of South Africa, Faculty Research Productivity and Standing Evaluation, 2017

Research Capacity Building Activities

1. Assisted in the setup of new laboratory facilities for processing plant DNA and for the analysis of plant chemistry by HPLC. Led in-person training workshops with faculty and students on the use of this new instrumentation with the goal of advancing the research capacity of local scientists. University of Prishtina, Kosovo, 2022
2. Assisted in setup of a new microbiology research laboratory at the university and led in-person training workshops on research methods for assessing the antimicrobial properties of natural products. University of Prishtina, Kosovo, 2019

SELECT MEDIA ATTENTION

Print Media (Newspapers, Blogs, Magazines)

1. Quoted in *The New York Times* "Well" Newsletter [You're Cleaning All Wrong: A science-based guide for fellow germaphobes](#). 5/6/2022
2. Feature profile. *Psychology Today*. [Reaping a Botanical Bounty](#). Jan/Feb 2022 Issue.
3. Feature profile. *Emory Magazine*. [The Heart of Brightness](#). Winter 2021.
4. Feature profile. *Amplitude*. [Cassandra Quave: Nature's the Best Medicine for Limb Loss](#). 12/8/2021.
5. Interviewed and quoted in *Kiwani's Magazine* (in print and online) [Lost in Translation](#). 12/2021
6. Feature profile. Emory News Center. [Into the Heart of Brightness](#). 10/21/2021
7. Interviewed and quoted by [The Guardian](#) newspaper: "How biodiversity loss is jeopardising the drugs of the future" 10/9/2021
8. Feature research profile article (front page on an Italian newspaper in print and online). "Nei castagni il segreto contro i mali da Stafilococco aureo" [Il Quotidiano del Sud](#) 9/17/2021
9. Interviewed and quoted by [Chemical and Engineering News \(C&EN\)](#) "Castaneroxy A keeps MRSA at bay", 7/7/2021.
10. Press release on Salam et al. *Frontiers in Pharmacology* 2021 paper on the discovery of a new anti-virulence compound in chestnut leaves. Sample headlines:
 - a. [Superbugs have two new nemeses: the chestnut tree and LEGO](#) *Daily Kos*
 - b. [New molecule found in chestnut leaves disarms dangerous staph bacteria](#). Emory News Center
 - c. [Molecule Extracted From Chesnut Leaf Neutralizes Drug-Resistant Bacteria](#). *Technology Networks Biopharma*
 - d. [Molekül aus Kastanienblättern bekämpft Krankenhauskeim](#). *Forschung und Wissen* [German news]
 - e. [Chestnut Compound Shows High Bioactivity against Drug-Resistant *Staphylococcus aureus*](#). *Sci News*
 - f. [New Molecule Discovered in Chestnut Leaves Disarms Dangerous Staph Bacteria](#). *Sci Tech Daily*
11. Quoted in *The Scientist*. [Science with Borders: Researchers Navigate Red Tape](#). 3/1/2021.
12. Interviewed for Q&A with Pew Charitable Trusts. [Researcher Looks to Plants in Search for New Antibiotics](#). 1/11/2021
13. Interviewed and quoted by [The Palm Beach Post](#). "Oleander extract sales rocket after Ben Carson touts it for COVID. But is it safe?" 11/23/2020.
14. Press release on Porras et. al *Chemical Reviews* November 2020 paper featured in news sources online. Sample headlines include:
 - a. [Major review of plants' role in antibacterial activity clears new paths for drug discovery](#). *Emory News Center*
 - b. [Plant compounds are key to solving the antibiotic resistance crisis](#). *Earth.com*
 - c. [A detailed review of plant natural products to combat antibiotic resistant pathogens](#). *The Medical News*
 - d. [In-depth review of plant natural products paves way for drug discovery](#). *AZO Life Sciences*
 - e. [Bientôt de nouveaux antibiotiques à base de plantes? Pourquoi Docteur](#) [French]
15. Quoted in [U.S. News and Report](#). "Extract From Deadly Plant Touted as COVID-19 Cure by Trump Donor." 8/2020.
16. Interviewed and quoted by [The New York Times](#). "Drug Pitched to Trump for Covid-19 Comes From a Deadly Plant", 8/2020.

17. Interviewed and quoted by [Newsweek](#). "Don't Take 'Dangerous' Oleandrin for COVID-19 Experts Warn, After Trump Says 'We'll Look at It'". 8/2020.
18. Interviewed and quoted by [ABC News](#) "Doctors rebuff unproven and potentially dangerous oleander chemical falsely touted as COVID-19 'cure'". 8/2020.
19. Interviewed and quoted by [C&EN](#) "What is oleandrin, the compound touted as a possible COVID-19 treatment?", 8/2020.
20. Quoted by [CBS News](#) "Trump says "we'll look at" treating COVID with an untested, toxic plant extract touted by MyPillow CEO", 8/2020
21. Perspective piece I authored "Oleandrin is a deadly plant poison, not a COVID-19 cure" on [The Conversation](#) shared by major news outlets with > 204,000 reads, 8/2020:
 - a. Article posted by [PBS News Hour](#), [Snopes](#), [Fast Company](#), [The Science Times](#)
 - b. Translated into Spanish and posted on [DigitalTrendsES](#)
 - c. Article quoted in [Vox](#), [MedScape](#), [WebMD](#)
22. Quoted in *Washington Post* ['Green' household cleaners and coronavirus: What you need to know](#), 8/2020
23. Press release on Dettweiler et al. *ACS Infectious Diseases* July 2020 paper featured in news source online. Sample headlines include:
 - a. [Beautyberry compound aids antibiotic against MRSA](#). *Futurity*
 - b. [Beautyberry compound can fight antibiotic resistance](#). *Earth.com*
 - c. [The American Beautyberry: Helping antibiotics work effectively](#). *The Science Times*
 - d. [Beautyberry leaf could be the secret to combatting MRSA infections](#). *Drug Target Review*
 - e. [Beautyberry leaf extract restores drug's power to fight 'superbug' MRSA](#). *Medical Express*
 - f. [American beautyberry leaf extract boosts antibiotic's activity against 'superbug'](#). *News Medical Life Sciences*
 - g. [Beautyberry leaf extract restores drug's power to fight 'superbug'](#). *Emory News Center*, 7/2020.
24. Quoted in "[Potions from the Ocean](#)" news feature in *BBC Wildlife* Spring 2020.
25. Mentioned in "[Mapping Orchids in Kosovo](#)" *Orchid Review*, June 2020.
26. [Jaguar Health Sustainability Leader Interviewed on Foodie Pharmacology Podcast](#) [News Feature on Foodie Pharmacology podcast]. *Street Insider*, 5/2020
27. Press release on Tang et al. *Scientific Reports* May 2020 paper featured in news sources online. Sample headlines include:
 - a. Technology Networks: [Chemicals in Noxious Weed Can "Disarm" MRSA](#)
 - b. Science News: [Scientists identify chemicals in noxious weed that 'disarm' deadly bacteria](#)
 - c. Futurity: [Compounds in Brazilian Berries can 'Disarm' MRSA](#)
 - d. MDLinx: [Triterpenoid acids pack a punch against methicillin-resistant *Staphylococcus aureus*](#)
28. [Press Secretary Kayleigh McEnany Chides Chris Cuomo For Using Quinine; He Called Donald Trump's Hydroxychloroquine Claim "A Beautiful Distraction"](#) [Quotes text from an OpEd published in *The Chronicle*] *Deadline*, 5/2020
29. [Drug-Resistant Superbugs May Be Growing Even Deadlier](#) [Quoted] *One Zero*, 5/2020.
30. Profile in the Emory Wheel (Student Newspaper): [Professor Scours Globe to Transform Western Medicine](#). 4/2020

31. [Back to the Future](#). [Magazine Cover Feature] *Georgia Magazine*, 3/2020
32. [Building a LEGO lab with Cassandra Quave](#) *BioTechniques*, 3/2020
33. [NIH to investigate minor cannabinoids and terpenes for potential pain-relieving properties](#) NIH Press Release. 9/ 2019
34. [4 ways scientists are fighting superbugs](#). Becker's Hospital Review, 8/2019
35. [Can we kill superbugs before they kill us?](#) AAMC News. 8/2019
36. [This is what skincare, makeup and wellness will look like in 2020](#). *Vogue India*, 7/2019.
37. [Proof that the Devil's walking stick is heaven-sent](#). *Atlanta Journal Constitution*. 5/2019
38. [Expert Q&A: Explore why the skin's delicate ecosystem depends on a healthy microbiome](#) *Medline*, 2019
39. [Civil War plant remedies actually fought off infections, study finds](#). *Smithsonian Magazine*. 5/2019
40. [Civil War Plant Medicines Inhibit Multidrug-Resistant Wound Bacteria](#). National Center for Complementary and Integrative Health. 5/2019
41. [How Civil War plant remedies could improve modern medicine](#). Atlas Obscura. 5/2019
42. [Civil War plant medicines blast drug-resistant bacteria: Emory lab explores remedies in 1863 guide for battlefield surgeons](#). Research Profile in Emory News. 5/2019
43. ["Civil War-Era plant medicines could help fight drug-resistant bacteria, study finds."](#) Motherboard, Vice. 5/2019
44. ["Medicinal plants used during the U.S. Civil War are surprisingly good at fighting bacteria."](#) Gizmodo. 5/2019
45. Press release on Dettweiler et al. *Scientific Reports* May 2019 paper featured in news sources online. Sample headlines include:
 - a. IFL Science: [Plants used to treat Civil War soldiers work against drug resistant bacteria](#)
 - b. Science Daily: [Civil War plant medicines blast drug-resistant bacteria in lab tests](#)
 - c. Medical Health News: [Medicinal plants used during the US Civil War are surprisingly good at fighting bacteria](#)
 - d. Earth.com: [Plants used as Civil War injury remedies prove effective against tough bacteria](#)
 - e. Genetic Engineering and Biotechnology News: [Civil War Battlefield Natural Therapies Found to be Effective against Modern-Day Multidrug-Resistant Bacteria](#)
 - f. Science Alert: [Medicinal herbs used in the US Civil War could help us kill drug-resistant bacteria](#)
46. ["Scientists look for new antimicrobials and urge government incentives"](#) quoted in *Covering Health* of the Association for Healthcare Journalism, 5/8/19.
47. ["Secrets of the Ginkgo Seeds"](#) Emory News Center Piece. 4/2019
48. Press release on Huang et al. *Frontiers in Microbiology* April 2019 paper featured in news sources online. Sample headlines include:
 - a. Tree hugger: ["16th Century text shows ginkgo seeds can fight skin infections"](#)
 - b. Futurity: Research News: ["Can ginkgo biloba seeds fight skin infections?"](#)
 - c. Medical News Today: ["Ginkgo seeds may help keep skin blemish-free, but there's a catch"](#)
49. Wikipedia Page (created in 2018): [Cassandra Quave](#)
50. "The Plant Hunters" Quoted and research profiled in *Emory Magazine*, September 2018 Issue, page 18-19. 9/2018

51. "[Emory Herbarium to celebrate growing collection](#)" Quoted in Emory News Center piece, 9/12/2018.
52. "[From folklore to pharmacy](#)" Quoted and research featured in *Chemistry World*, 8/13/2018.
53. "[The Plant Hunters](#)" Feature research profile in Emory News, 8/6/18.
54. Quoted in *Science Magazine* "[Plan to amend biopiracy rules would 'smother research,' biologists warn](#)", 7/3/2018
55. "[Die Pflanzendetektivin](#)" [The plant detective]. Research profile in *Tages-Anzeiger*, Swiss newspaper, p. 58 [German] 5/26/2018
56. "[Die Pflanzendetektivin](#)" [The plant detective]. Research profile in *Süddeutsche Zeitung*, German newspaper, [German] 5/12/2018
57. "[Natur gegen Superkeime](#)" [Nature versus Superbugs]. Research profile in *Brigitte Magazin*, the most widely circulated women's magazine in Germany, Issue 9, [German] 5/2018
58. "[Peppertree Potions](#)". Research feature in *Ask Magazine* (Science magazine for children aged 6-9 years old), April 2018 Issue, page 12-14. 4/2018
59. "[The new herbalist](#)". (In cover feature: Why the end isn't nigh: The science that makes us feel good about the future). *BBC Focus*, February 2018 Issue.
60. "[Kräuter gegen Keime](#)". *Technology Review: Das Magazin Fur Innovation*, Research feature [German] 1/2018
61. "[The Power of Plants](#)" Emory Magazine Winter 2018 issue
62. "[Big Read: Loss of tropical forests threatens search for antibiotics](#)". *WikiTribune*, November 2017
63. "[Botanical medicine course takes multi-disciplinary look at how plants can heal](#)" Emory Report, 11/30/2017.
64. "[A Future Without Antibiotics?](#)" *Emory Medicine Magazine* Winter 2017, page 14-23.
65. "[Superbugs, meet your worst nightmare: This peppertree](#)" *National Geographic Magazine*, Research highlight, September 2017 Issue.
66. [Science Reddit AMA on Medicinal Plants](#), 5/2017
67. "[Human health student fights back against bacteria with research](#)". Emory News Center, 4/2017
68. "[The Weed Whisperer](#)". *Emory Medicine Magazine* Spring 2017 issue, page 11.
69. "[How Medicine Made us Modern](#)" *National Geographic*, 3/2017
70. "[New way to fight superbugs found in noxious weed](#)" *National Geographic*., 2/2017
71. Press release on Muhs et al. *Scientific Reports* February 2017 paper featured in news sources online in multiple languages (English, German, French, Portugese, and more). Sample headlines include:
 - a. Science Alert: [These Brazilian Red Berries Could Hold the Key to Fighting Deadly Superbugs](#)
 - b. Deccan Chronicle: ['Noxious weed' may help fight superbugs: study](#)
 - c. Science Daily: [Brazilian peppertree packs power to knock out antibiotic-resistant bacteria](#)
 - d. Portland Press Herald: [Indigenous plant extract may be superbug nemesis](#)
 - e. Lighthouse News Daily: [Brazilian Peppertree berries may be useful in the superbug fight](#)
 - f. Jornal O Globo: [Planta native do Brasil pode desarmar bactérias resistentes a antibióticos](#) [Portugese]
 - g. Observador: [Bagas de árvore da pimenta do Brasil desarmam bactérias multiresistentes](#) [Portugese]
 - h. Duurzaam: [Antibioticaresistentie bestrijden met hernieuwbare bron](#) [Dutch]

- i. Pourquoi Docteur: [Staphylocoque doré Antibiorésistance : les possibles vertus des baies roses](#) [French]
 - j. IFL Science: [Brazilian Peppertree Helps Fight Off Antibiotic-Resistant Superbugs](#)
 - k. Technology Networks: [Plant power disables MRSA bacteria](#)
 - l. Business standard: ['Noxious weed' may help fight superbugs: study](#)
72. ["Humble red berry could be the answer to deadly superbugs"](#) *The Telegraph*, 2/2017
 73. ["Noxious weed may provide new way to fight superbugs"](#) NBC News, 2/2017
 74. ["Common weed could help fight deadly superbug, study finds"](#) *Washington Post*, 2/2017
 75. ["Could this common weed help fight deadly superbugs?"](#) CBS News, 2/2017
 76. Profiled in *Valor* magazine, ["Volver a la Botánica"](#) [Spanish] 1/2017
 77. Quoted in *Nature Medicine* 22(11): 1197-1199 News Feature by S. Chakradhar: ["What's old is new: Reconfiguring known antibiotics to fight drug resistance"](#), 11/2016
 78. Profiled in the Garden Club of America's *Bulletin* Fall 2016 magazine issue: "The GCA's 2007 Chatham Fellowship Winner Today: A Medical Phenomenon"
 79. Feature profile in the *New York Times Magazine*: ["Could ancient remedies hold the answer to the looming antibiotics crisis?"](#) 9/2016 [[Print magazine link](#)]
 80. Featured in Mother Nature News Network ["Will the next antibiotic breakthrough come from these humble plants?"](#) 9/2016
 81. Featured in online trade magazine Nutra ingredients-usa.com ["Botanicals hit national spotlight in article on ethnobotany"](#), 9/2016
 82. Quoted and featured in ["Native Plant News Spring/Summer 2016"](#) "Botanists Find New Ways to Inspire Students", 6/2016
 83. ["From the field to the Emory Herbarium: How knowledge of nature blooms"](#). eScience Commons and Emory News, 4/2016.
 84. ["Contro i batteri resistenti, le foglie di Castagno"](#) *Diari del Web*, [Italian] 12/2015
 85. Press release on Quave et al. PLoS ONE August 2015 paper featured in 50+ news sources (online and print) in multiple languages (English, German, Spanish, Polish, Chinese, Korean and more). Sample of headlines with links:
 - a. Express.co.uk: [Sweet chestnut leaves may hold MRSA cure](#)
 - b. Science Daily: [Chestnut leaves yield extract that disarms deadly staph bacteria](#)
 - c. Heraldo.es: [Un extracto de las hojas del castaño, eficaz contra las bacterias estafilococos](#) [Spanish]
 - d. Sci-news.com: [European Chestnut leaf extract disarms Staphylococcus aureus](#)
 - e. Phys.org: [Chestnut leaves yield extract that disarms deadly staph bacteria](#)
 - f. Mirror.uk.co: [Hospital superbug MRSA could be beaten with an unusual cure](#)
 - g. Express & Star: [Sweet chestnut tree chemicals 'disarm' MRSA superbug](#)
 - h. GEN News: [A not so old chestnut, extract disables MRSA](#)
 - i. Bild der Wissenschaft: [Antibiotikum-alternative aus Kastanienblättern?](#) [German]
 - j. Univision Salud: [Hojas del castano contra los estafilococos](#) [Spanish]
 - k. NaukawPolsce: [Ekstrakt z liści kasztana unieszkodliwia bakterie](#) [Polish]
 86. Underground Health Reporter: [Chestnuts can fight off dangerous bacterial infections](#)
 87. ["Cutting off communication"](#), *BioTechniques* science magazine, 9/10/2015
 88. ["Chestnut disarms superbug"](#), *Chemistry and Industry Magazine*, 9/2015
 89. ["In the Balkans, resilience is rooted in knowledge of wild plants"](#) *Emory University eScience Commons*. 2/2015

90. "[The power of poisons: From Cleopatra to Socrates and Cyclops](#)" *Emory University News Center and eScience Commons*. 2/2015
91. "[Poison in history and myth](#)" Interview video on *Emory University YouTube Channel* 2/2015
92. Quoted in National Geographic blog: "[1,000 year old remedy may cure MRSA, still faces regulatory hurdles](#)" 4/7/2015
93. "[Chestnut leaves yield extract that disarms deadly bacteria](#)" *Emory University eScience*
94. "[A Taste of Traditional Italian Medicine](#)" *Emory University eScience Commons*. 7/2013
95. Quoted in Emory Magazine piece: "[The Art of the Sell](#)", *Emory Medicine* 9/2012
96. "[Medicine Woman](#)" *Emory Magazine* Autumn 2012 Edition. 8/2012
97. "[Her patient approach to health: Tapping traditional remedies to fight modern super bugs](#)", *Emory University eScience Commons* 8/2012
98. "[Phipp's grant leads to medical venture](#)", *Pittsburgh Post-Gazette* 10/2011
99. "[UAMS Startup Wins Top-Three Finish in Harvard Competition](#)". *UAMS Website* 6/2011
100. "UAMS Startup PhytoTEK Reaches Finals at Harvard Business Plan Competition" *Innovate Arkansas* 5/2011
101. "[Dr. Quave: Medicine Woman](#)", *Sync*, 12/2010

Radio and Podcast Appearances

1. BYU Radio Constant Wonder. [S2 E15: Superplants vs. Superbugs](#). 5/11/2022
2. Finding Genius Podcast, [Nature's Next Medicine – The Production of Biofilm and Fighting Off Pathogenic Bacteria with Cassandra Leah Quave](#), 5/1/2022
3. Natural Prodcast, Joint Genome Institute. [Natural Prodcast Episode 17 – Cassandra Quave](#). 4/20/2022
4. Cultivating Place. [A Scientist's Quest to Find Nature's Next Medicines. Dr. Cassandra Quave](#). 3/24/2022
5. The Whole Health Cure Podcast. ["The Plant Hunter" with Cassandra L. Quave, PhD](#). 3/24/22.
6. The Story Collider. [Unconventional Methods: Stories about Finding a Different Way](#). Aired 2/18/2022.
7. People I (Mostly) Admire, Freakonomics Radio. [Cassandra Quave Thinks the Way Antibiotics Are Developed Might Kill Us](#). Aired 1/29/2022.
8. The People's Pharmacy. [Show 1285: The Plant Hunter's Quest for Nature's Next Medicines](#). Aired 1/18/2022.
9. PBS The Open Mind hosted by Alexander Heffner: "[Cures in the Soil](#)" interview with Dr. Cassandra Quave. Aired 12/13/2021.
10. Think with Kyra Boyd, KERA. [Searching the Amazon for the next miracle drug](#). 12/6/2021
11. Medical Roundtable; The Plant Hunter. [What's Health Got to Do with It?](#) 12/4/2021
12. Natural healing: Plant-based medicines and supplement skepticism [KCRW](#) 11/20/2021
13. The American Scholar Smarty Pants Podcast [Nature's Pharmacy](#). 11/19/2021.
14. KPCW Cool Science Radio [The Plant Hunter](#). 11/18/2021
15. The Roundtable on WAMC Northeast Public Radio. [A scientist's quest for nature's next medicines](#). 11/11/2021.
16. Public Radio Tulsa. [The Plant Hunter](#). 11/1/2021.
17. WABE, Atlanta's NPR Station. [In memoir, Atlanta scientist shares adventures and challenges searching nature for new cures](#). 10/22/2021

18. Q&A Time on The Naked Scientists Podcast. "[Q&A: Moon Landings and Making Medicine.](#)" 9/29/2021
19. BBC World Service Newsday [feature on discovery of Castaneroxy A](#) (33 minutes into broadcast). 6/30/2021.
20. WJCT-FM "[Looking for new antibiotics in plants.](#)" 4/15/2021.
21. ScienceLine Podcast. "[The evolution of ethnobotany](#)" 1/14/2021.
22. Health is Everything with Dr. Charles Raison "[Enhancing Immune Health](#)". 6/19/2020.
23. Live interview on the 2019 *Scientific Reports* Civil War medicine paper. BYUradio Constant Wonder. Sirius XM 143 and iTunes radio. 6/12/2019.
24. Live interview on the 2019 *Scientific Reports* Civil War medicine paper. [Newstalk Live with Sean Moncrieff](#). Dublin, Ireland. 5/28/2019.
25. WABE Atlanta NPR Station: "[How plants and a Civil War-Era book help Emory scientists search for new drugs.](#)" 5/2019
26. Live interview on the 2019 *Scientific Reports* Civil War medicine paper. [KCBS News Radio](#), San Francisco. 5/23/2019.
27. Podcast interview on Dr. Berquist's "The Whole Health Cure": Episode 14: "[The Power of Plants: The Roots of Future Medicine](#)" 9/2018
28. Podcast interview on Paul Kirtley's Blog: "[PK Podcast 030: Dr. Cassandra Quave on studying medicinal uses of plants and the treatment of infectious disease](#)", 4/2018
29. Feature profile on WABE 90.1 NPR station: "[The Medicine Woman: Emory Researcher Takes Up Fight Against Superbugs](#)", 3/2018
30. Feature profile on Slack show from Pacific Content, Work in Progress: "[Episode 29: Because Science](#)", 7/2017
31. Featured guest on The Front Row podcast: "[Future of Epidemics](#)", 6/2017
32. Featured guest on NPR show On Point with Tom Ashbrook (nationally syndicated radio show): "[The plant based solution to antibiotic resistance](#)", 9/2016
33. Feature guest on NPR show [Big Picture Science](#) (nationally syndicated science show), "Venom Diagram" 9/2016

TV and Film Appearances

1. PBS The Open Mind hosted by Alexander Heffner: "Cures in the Soil" interview with Dr. Cassandra Quave. Aired 12/13/2021. [[Video Link](#)]
2. ABC News Prime Live: "ABC News Linsey Davis speaks with Dr. Cassandra Quave, author of *The Plant Hunter: A Scientist's Quest for Nature's Next Medicines* about the future of plant-derived medical treatments" Aired 10/11/2021. [[Video Link](#)]
3. Feature profile on documentary "Wild Healing" episode for Ecosense for Living on PBS. Aired 4/29/2020. [[Video Link](#)]
4. Research profile on documentary covering novel strategies for combating antibiotic resistance "Healing without Antibiotics", aired on ZDF in Fall 2018, Germany's largest public TV station. [[Video Link](#)]
5. Feature profile on German TV news magazine series "Life – Humans, Moments, Stories" aired Fall 2018 on RTL, Europe's biggest broadcaster. Episode 5. Aired 8/4/2018. [[Video Link](#)]
6. Mini-documentary on my research featured in "Cheating Death" medicine episode of the National Geographic Channel series "Origins: The Journey of Humankind", 3/13/2017 [[Video Link](#)]

7. Invited guest on “Science Today”, a science talk show held during the 2015 Atlanta Science Festival, 3/22/2015, Weblink: https://youtu.be/J165JX1ym_c
8. “[Poison plants revolutionize medicine](#)” Interview video on *Emory University YouTube Channel*, 2/2015

Museum and Botanical Garden Exhibitions

1. Featured in permanent exhibit at the Conservatoire et Jardin Botaniques Genève (The Ethnobotanical Gardens) of the Museums of Geneva, Switzerland. http://www.ville-ge.ch/cjb/ethno_en.php , 6/2017

Art Exhibitions

1. Featured in an artistic exhibit by Florian Fölscher to be shown in a Zurich, Switzerland gallery in March 2019
2. [Photo portfolio](#) by Elias Hassos for *Geo Magazin*, 2017

Outreach to the Disabled Community

1. Featured in The Outdoor Swimming Society website article “[Putting accessible swims on the map](#)”. The article discusses ways to improve accessibility for amputees on wild swims. 7/2018
2. Featured and quoted in *Outdoor Swimmer Magazine* Issue 17 on the topic of accessibility for disabled swimmers. “[Access all areas](#)” 8/2018.

Facebook Live Hosting Events with Emory University

1. [Think Like a Hacker to Improve your Cybersecurity](#) April 2021
2. [Atlanta Science Festival Preview](#) March 2021
3. [How Family Stories Help Children Weather Tough Times \(Like Pandemics\)](#) February 2021
4. [Protecting Nature to Reduce Risks of Future Pandemics](#) January 2021

Book Reviews and Press (for THE PLANT HUNTER, Viking, 2021)

1. [Read + Watch + Listen](#). *Garden Club of America: The Bulletin*, Winter 2022, 1/2022
2. [Cassandra Quave’s adventure-filled memoir The Plant Hunter details challenges and triumphs in her search for anti-infective molecules](#), *Chemical and Engineering News*, 10/2021
3. [‘Plant hunter’ searches for nature’s next medicines](#), *Marin Independent Journal*, 10/2021
4. [The Plant Hunter](#). *Library Journal* (starred review), 10/2021
5. [A sampling of seasonal science books](#). *Science*, 9/2021
6. [The Plant Hunter](#). *Publishers Weekly*, 9/2021
7. [The Plant Hunter](#). *Kirkus Reviews* (starred review), 9/2021