

Suzanne Angeli, Ph.D.

University of Maine, Orono
280 Hitchner Hall
suzanne.angeli@maine.edu (415) 513-6276

EDUCATION

2003-2010 Ph.D., Biomedical Sciences, University of California, San Francisco, San Francisco, CA
1999-2003 B.S., *summa cum laude*, Cell and Molecular Biology, Tulane University, New Orleans, LA

POSITIONS

2022-present Assistant Professor, University of Maine, Orono; Department of Molecular and Biomedical Sciences
2018-2022 Research Scientist, Buck Institute for Research on Aging
2014-2017 Postdoctoral Fellow, Buck Institute for Research on Aging
2010-2014 Postdoctoral Fellow, Buck Institute for Research on Aging
2003-2010 Graduate Student, UC San Francisco, CA, Department of Biomedical Sciences
2002-2003 Undergraduate Researcher, Tulane University, LA
2002 Undergraduate Researcher, UC San Francisco, PI Jane Gitschier, PhD

PUBLICATIONS

Angeli S, Shao J, Diamond MI. (2010). F-actin binding regions on the androgen receptor and huntingtin increase aggregation and alter aggregate characteristics. *PLoS ONE*, Vol. 5, Issue 2. PMID: PMC2816219.

Angeli S, Klang I, Sivapatham R, Mark K, Zucker D, Bhaumik D, Lithgow GJ, Andersen JK. (2013). A DNA synthesis inhibitor is protective against proteotoxic stressors via modulation of fertility pathways in *Caenorhabditis elegans*. *Aging*, Vol. 5, No. 10. PMID: PMC3838778.

Angeli S, Barhydt T, Jacobs R, Killilea DW, Lithgow GJ, and Andersen JK. (2014). Manganese Disturbs Protein and Metal Homeostasis in *Caenorhabditis elegans*. *Metallomics*, Issue 10. PMID: PMC4309368.

Leonoudakis D, Rane A, **Angeli S**, Lithgow GJ, Andersen JK and Chinta S. (2017). Anti-inflammatory and neuroprotective role of natural product securinine in activated glial cells. Implications for Parkinson's disease. *Mediators of Inflammation* - Vol. 2017, pg. 11. PMID: PMC5394397.

Lucanic M, Plummer WT, Chen E, Harke J, Foulger AC, Onken B, Coleman-Hulbert AL, Dumas KJ, Guo S, Johnson E, Bhaumik D, Xue J, Crist AB, Presley MP, Harinath G, Sedore CA, Chamoli M, Kamat S, Chen MK, **Angeli S**, Chang C, Willis JH, Edgar D, Royal MA, Chao EA, Patel S, Garrett T, Ibanez-Ventoso C, Hope J, Kish JL, Guo M, Lithgow GJ, Driscoll M, Phillips PC. (2017). Impact of Genetic Background and Experimental Reproducibility on Identifying Chemical Compounds with Robust Longevity Effects. *Nature Communications*, Vol. 8, 14256. PMID: PMC5321775.

Xie X, Chamoli C, Bhaumik D, Sivapatham R, **Angeli S**, Andersen JK, Lithgow GJ, Birgit S. (2020) Quantification of Insoluble Protein Aggregation in *Caenorhabditis elegans* during Aging with a Novel Data-Independent Acquisition Workflow. *JoVE*, 7 Aug (162). PMID:PMC7519758

Meron E, Thaysen M, **Angeli S**, et al. Meeting Report: Aging Research and Drug Discovery. *Aging (Albany NY)*. 2022;14(2):530-543. doi:10.18632/aging.203859. PMID:PMC8833115

Angeli S, Foulger AC, Chamoli M, Peiris TH, Gerencser AA, Shahmirzadi Asadi A, Andersen JK, Lithgow GJ. (2021) The mitochondrial permeability transition pore activates the mitochondrial unfolded protein response and promotes aging. *eLife* 2021; 10:e63453. PMID:PMC8410078

Begelman DV, Woods G, Bhaumik D, **Angeli S**, Foulger AC, Lucanic M, Lan J, Andersen JK, Lithgow GJ. (2022) An *aco-2::GFP* knock-in enables the monitoring of mitochondrial morphology throughout *C. elegans* lifespan. *MicroPublication Biology*. 10.17912/micropub.biology.000599

CURRENT RESEARCH SUPPORT

- 11/21-present Oklahoma Nathan Shock Center Pilot Grant
Genomics Scientific Core and GeroInformatics Core
Award: \$5,000
Title: Determining how loss of complex V and the mitochondrial unfolded protein response impact aging.
- 1/22-present University of Washington Nathan Shock Center Pilot Grant
Invertebrate Longevity and Healthspan Core
Award: \$10,000
Title: Determining how modulation of mitochondrial permeability transition pore (mPTP) impacts aging.
- 12/21-present VitaDAO/Gitcoin Crowdfunding
Funds Raised: \$6,400
Title: Determine if use of the widely-prescribed drug cyclosporin A slows the progression of brain aging.

PAST RESEARCH SUPPORT

- 2012-2013 F32 ES022370, NIH/NIEHS F32 postdoctoral fellowship
Buck Institute for Research on Aging, Novato, CA
Research topic: Age-dependent manganese toxicity in parkin mutants.
- 2010-2012 T32 AG000266, NIH T32 postdoctoral training grant
Buck Institute for Research on Aging, Novato, CA
Research topic: Examining the role of environmental manganese toxicity in *C. elegans*
- 2006 – 2009 F31 NS054604, NIH/NINDS F31 predoctoral fellowship,
University of California, San Francisco, CA
Research topic: Role of f-actin binding to the androgen receptor and huntingtin

AWARDS AND HONORS

- 2022 Glenn Foundation Diversity Scholarship, Metabolism, Aging, Pathogenesis and Stress in *C. elegans* Meeting, University of Wisconsin-Madison
- 2020 American Aging Association (AGE) Virtual Meeting 2-year membership awardee
- 2019 Bay Area Aging Meeting (BAAM) Best Poster Prize
- 2015 NIA 23rd Annual Summer Training Course in Experimental Aging Research recipient
- 2014 Ford Foundation Fellowship Honorable Mention/Alternate Awardee
- 2011 Gordon Research Seminar recipient
- 2010 IRACDA Scholars in Science (ISIS) Postdoctoral Fellowship, UCSF – declined
- 2009 Keystone Symposia Minority Travel Award
- 2008 Science and Friendship International Meeting IV Travel Scholarship, Santiago, Chile
- 2008 Carl Storm Underrepresented Minority Travel Award, Gordon Research Conference
- 2005 Ford Foundation Fellowship Honorable Mention/Alternate Awardee
- 2003 Summa Cum Laude - Tulane University
- 2003 Louisiana Alliance Minority Participation (LAMP) Scholarship, Tulane University
- 2002 HHMI Summer Research Training Fellow, University of California, San Francisco
- 1999 -2003 Distinguished Scholars Scholarship, Tulane University

MEMBERSHIPS

- 2021-22 Buck Institute Racial Justice Task Force
- 2020-22 Buck Institute Minority Trainees Association (MTA)
- 2019- Genetics Society of America (GSA)
- 2019 - American Aging Association (AGE)
- 2012 - 2014 Postdoctoral Association (PDA) Treasurer and Academic Chair, Buck Institute
- 2005 - 2010 Minority Graduate Student Organization (MGSO) member, UCSF
- 2004 - 2010 Women in Life Sciences (WILS)
- 2005 Society for Advancement of Chicanos and Native Americans in Science (SACNAS)
- 2003 Louisiana Alliance Minority Participation (LAMP) Scholar

COURSES

- 2021 Diversity, Equity, and Inclusion eLearning Course

- 2021 Gero616 Proteomics and Mass Spectrometry Course, Instructor: Dr. Birgit Schilling, Buck Institute, Novato, CA
- 2020 How to Start you Own Lab, Tips for Success, Instructor: Dr. Malene Hansen, Buck Institute, Novato, CA
- 2019 Course in Preventing Harassment Training, Buck Institute, Novato, CA
- 2017 Mitochondria Bioenergetics Course, Instructors: Drs. David Nichols and Martin Brand, Buck Institute, Novato, CA
- 2017 Course in Preventing Harassment Training, Buck Institute, Novato, CA
- 2015 NIA 23rd Annual Summer Training Course in Experimental Aging Research, Buck Institute, Novato, CA
- 2013 Course in Scientific Leadership and Management, Gladstone Institute, UCSF, CA
- 2012 Course in Responsible Conduct of Research, Buck Institute, Novato, CA

FORMAL TEACHING EXPERIENCE

- 2022 *Gene and Cell Therapies for Treating Neurodegenerative Disorders*, Masters class, co-instructor, Dominican University, San Rafael, CA
- 2021 Buck Summer Survey Course for High School Students: *Understanding the Role of the Mitochondrial Unfolded Protein response in Aging*, (virtual)
- 2018-2021 Buck Ambassador: *Talks at The Cellular Level: Scientific Research in the Field of Aging; The Latest on COVID-19 and its Relationship to Aging*
- 2019 *Gene and Cell Therapies for Treating Neurodegenerative Disorders*, Masters class, co-instructor, Dominican University, San Rafael, CA
- 2013 *Biological Theories of Aging*, gerontological survey class, repeat guest lecturer, City College San Francisco (CCSF), San Francisco, CA
- 2008/2009 Graduate Student Advisor for undergraduate scholars, Summer Research Training Program (SRTP), University of California, San Francisco, CA
- 2005 Teaching Assistant- BMS 225A Organ and Tissue Biology, Spring

MENTORING AND SUPERVISING EXPERIENCE

Mentoring of high-school students

- 2015 Kavya Nambiar, Buck Institute, Novato, CA

Mentoring of undergraduate students

- 2013 Ross Jacobs, Santa Rosa Junior College, Buck Institute, Novato, CA
- 2018 Noemi Sanchez, Santa Rosa Junior College, Buck Institute, Novato, CA
- 2019 Marta Williams, SENS Foundation, Novato, CA

Mentoring of Masters students

- 2010 Renuka Sivapatham, Aarhus University, Denmark, Buck Institute, Novato, CA
- 2011 Tracy Barhydt, Dominican University, Buck Institute, Novato, CA
- 2012 Tine Moller, Aarhus University, Denmark, Buck Institute, Novato, CA
- 2014 Monica Arroliga, Dominican University, Buck Institute, Novato, CA

Mentoring of PhD students

- 2008 Todd Logan, University of California, San Francisco, CA
- 2012 Ida Klang, Karolinska Institute, Buck Institute, Novato, CA
- 2016-20 Azar Asadi, University of Southern California (USC), Buck Institute, Novato, CA
- 2018- Angelina Holcom, University of Southern California (USC), Buck Institute, Novato, CA
- 2018 Andrew Cruz, University of Southern California (USC), Buck Institute, Novato, CA
- 2019- Minna Schmidt, University of Southern California (USC), Buck Institute, Novato, CA
- 2019- Edward Anderton, University of Southern California (USC), Buck Institute, Novato, CA

Supervision of Research Associates (technicians)

- 2016 - Anna Foulger, San Francisco State University, Buck Institute, Novato, CA
- 2019 -20 Delaney Inman, University of California, Berkeley, CA, Buck Institute, Novato, CA
- 2019 -20 Mackenzie Morshead, Hamilton College, New York, Buck Institute, Novato, CA

DIVERSTIY OUTREACH

- 2021-22 Buck Institute Racial Justice Task Force
- 2020-21 Buck Institute Minority Trainee Association

- 2019 \$100,000 procurement from the Gruber Family Foundation for a 3-year pilot educational program aimed at disadvantaged high-school students
- 2018 Santa Rosa Junior College mentor to underrepresented students
- 2013 Autistry Studios Mentor (for students with autism or Asperger's syndrome)
- 2009 Valuing Diversity Workshop Group leader, University California, San Francisco
- 2008-2009 Graduate Student Advisor for underrepresented undergraduate scholars, Summer Research Training Program (SRTP),
- 2005 Society for Advancement of Chicanos and Native Americans in Science (SACNAS) National Conference Student Ambassador, Denver, CO
- 2005-2010 Minority Graduate Student Organization (MGSO) member
- 2004-2010 Women in Life Sciences (WILS) member
- 2003 Louisiana Alliance Minority Participation Scholar, 11/2003

PRESENTATIONS

Invited International or National Talks

- 2021 Groningen- Jena Aging Meeting (G-JAM) (virtual)
The mitochondrial permeability transition pore activates the mitochondrial unfolded protein response and promotes aging
- 2021 ARDD 2021: The 8th Aging Research & Drug Discovery Meeting (virtual)
The mitochondrial permeability transition pore activates the mitochondrial unfolded protein response and promotes aging
- 2021 23th International *C. elegans* Meeting (virtual)
The mitochondrial permeability transition pore activates the mitochondrial unfolded protein response and promotes aging
- 2020 American Aging Association (AGE) Virtual Meeting selected speaker
The mitochondrial permeability transition pore initiates a maladaptive mitochondrial unfolded protein response
- 2020 Aging in Isolation Virtual Seminars
The mitochondrial permeability transition pore initiates a maladaptive mitochondrial unfolded protein response
- 2017 Exploratorium After Dark Series: Tales from the periodic table. San Francisco, CA
Manganese and parkinsonism (featured speaker, >2600 views)
<https://www.youtube.com/watch?v=03mUfB5kKTQ>
- 2013 19th International *C. elegans* Meeting, University of California, Los Angeles, CA
Role of manganese homeostasis in aging and disease
- 2011 Gordon Research Conference, Oxidative Stress and Disease; Ventura, CA
Role of environmental exposure to manganese in models of Parkinson's disease
- 2008 Science and Friendship International Meeting IV, Santiago, Chile
Role of F-actin in polyglutamine diseases

Invited Local or Institute-Sponsored Talks

- 2022 49th Maine Biological and Medical Sciences Symposium (MBMSS)
Relationship between aging and the mitochondrial unfolded protein response
- 2020 Rotary Club, virtual guest speaker
The Latest on COVID-19 and its Relationship to Aging
- 2019 Retired Teachers of San Francisco, guest speaker, San Francisco, CA
Talks at The Cellular Level: Scientific Research in the Field of Aging
- 2018 The Sequoia Retirement Community, guest speaker, San Francisco, CA
Talks at The Cellular Level: Scientific Research in the Field of Aging
- 2017 Bay Area Worm Meeting (BAWM), University of California, San Francisco, CA
Germline loss confers robust or super mitochondria phenotype via daf-16/FOXO and nhr-49/PPAR pathways in C. elegans
- 2017 Bay Area Aging Meeting (BAAM), Buck Institute, Novato, CA
Germline loss confers robust or super mitochondria phenotype via daf-16/FOXO and nhr-49/PPAR pathways in C. elegans

- 2016 Internal Research Seminar, Buck Institute, Novato, CA
Investigation of the mitochondrial unfolded protein response (UPR) and mitochondrial dynamics in a germline model of longevity in C. elegans
- 2015 Buck Institute Membership Event, Guest speaker with Gordon Lithgow PhD, Novato, CA *A Decade of Geroscience*
- 2013 City College San Francisco (CCSF) Guest lecturer, San Francisco, CA
Biological Theories of Aging, Gerontological survey class
- 2012 Internal Research Seminar, Buck Institute, Novato, CA
Parkin displays features of antagonistic pleiotropy: Implications for Parkinson's disease
- 2012 Bay Area Worm Meeting (BAWM), University of California, Santa Cruz, CA
A DNA synthesis inhibitor improves health and longevity in C. elegans
- 2012 NIH T32 Research Symposium, Buck Institute, Novato, CA
A DNA synthesis inhibitor improves health and longevity in C. elegans
- 2009 Research in Progress Seminar, University of California, San Francisco, CA
Role of F-actin in polyglutamine diseases

International or National Posters

- 2022 Cold Spring Harbor Laboratories (CSHL) Protein Homeostasis in Health and Disease (Virtual)
- 2020 Cold Spring Harbor Laboratories (CSHL) Mechanisms of Aging (Virtual)
- 2019 Keystone Symposia, Mitochondria in Aging and Age-related Disease, Keystone, CO
- 2011 Gordon Research Conference, Oxidative Stress and Disease; Ventura, CA
- 2011 18th International *C. elegans* Meeting, University of California, Los Angeles, CA
- 2010 *C. elegans* Aging, Metabolism, Stress, Pathogenesis, and Small RNAs; University of Wisconsin-Madison, Madison, WI
- 2008 Gordon Research Conference, Neurobiology of Brain Disorders; Magdalen College, Oxford, UK
- 2008 Hereditary Disease Foundation (HDF) Conference; Boston, MA
- 2006 National Institute of Mental Health (NIMH) Research Festival; Bethesda, MD

Local or Institute-sponsored Posters

- 2019 Bay Area Aging Meeting (BAAM), Buck Institute, Novato, CA (Best Poster Prize)
- 2018 Scientific advisory board meeting, Buck Institute, Novato, CA
- 2009 Graduate Student Association Days; University of California, San Francisco, CA
- 2008 Biomedical Sciences Retreat, University of California, San Francisco, Granlibaken, CA
- 2008 Bay Area Alzheimer's Disease Research Symposium, Gladstone, San Francisco, CA
- 2008 Graduate Student Association Days; University of California, San Francisco, CA
- 2008 Bay Area Neuroscience Gathering (BANG), San Francisco, CA
- 2007 Robert A. Fishman Symposium, San Francisco, CA
- 2007 Graduate Student Association Days; University of California, San Francisco, CA
- 2006 Biomedical Sciences Retreat, University of California, San Francisco, Granlibaken, CA
- 2002 Student Research Training Program; University of California, San Francisco, CA