

John P. Wares

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University of Georgia – Department of Genetics & Odum School of Ecology
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Education

B.S. in Zoology with Honors
Invertebrate Zoology
Ph.D. in Zoology

University of Oklahoma, 1995
Friday Harbor Labs, 1996
Duke University, 2000

Postdoctoral Training

University of New Mexico
University of California, Davis

Mentor: Tom Turner, 2000-2002
Mentor: Rick Grosberg, 2002-2004

Academic Positions

Assistant Professor
Associate Professor
Full Professor
Visiting Lecturer
Faculty Curator

University of Georgia, 2005-2011
University of Georgia, 2011-2017
University of Georgia, 2017-present
UW - Friday Harbor Labs, summer 2016
Georgia Museum of Natural History, 2019-

Research currently supported by:

1. NSF-OCE-1737091 Selection and genetic succession in the intertidal - population genomics of **Pisaster ochraceus** during a wasting disease outbreak and aftermath. \$342,683

Publications (n=113; 5606 citations, H-index 32)

2023 (9)

Dawson, M.N., P.J. Duffin*, 16 additional coauthors, and **J.P. Wares**. 2023. A decade of death and other dynamics: Deepening perspectives on the diversity and distribution of sea stars and wasting. *Biol. Bull.* doi: 10.1086/727969

Wares, J.P. The Genomic Ghosts of *Geukensia granosissima*, *Estuaries and Coasts*. 10.1007/s12237-023-01296-6

Wares, **JP** and S. Pirro. 2023. The complete genome sequences of 2 species of *Geukensia* (Brachidontinae, Mytilidae). *Biodiversity Genomes* <https://doi.org/10.56179/001c.89031>

K. N. Petersen & J. P. **Wares**, Investigating biodiversity patterns across scales in freshwater mussels. *Molecular Ecology* doi: 10.1111/mec.17181

Sutherland, K.P.,...8 coauthors...**J.P. Wares**, and J. Porter. 2023. Twenty-year record of white pox disease in the Florida Keys: Importance of environmental risk factors as drivers of coral health. *Diseases of Aquatic Organisms*. doi: 10.3354/dao03727

Giakoumis, M., G. Pinilla-Buitrago, L. Musher, **J. P. Wares**, S. Baird, M. Hickerson. *In press*. Evidence of introgression, ecological divergence and adaptation in *Asterias* sea stars. *Molecular Ecology*. <https://onlinelibrary.wiley.com/doi/10.1111/mec.17118>

Schiebelhut, LM, M Giakoumis*, R Castilho, VE Garcia, **JP Wares**, GM Wessel, and MN Dawson. 2023. Is It in the Stars? Exploring the Relationships between Species' Traits and Sea Star Wasting Disease *The Biological Bulletin* 2022 243:3, 315-327

Schiebelhut, LM, M Giakoumis*, R Castilho, PJ Duffin*, JB Puritz, **JP Wares**, GM Wessell, and MN Dawson. 2023. Minor Genetic Consequences of a Major Mass Mortality: Short-Term Effects in *Pisaster ochraceus* *The Biological Bulletin* 2022 243:3, 328-338

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Oulhen, N., M. Byrne, P. Duffin*, M. Gomez-Chiarri, I. Hewson, J. Hodin, B. Konar, E.K. Lipp, B.G. Miner, A.L. Newton, L.M. Schiebelhut, R. Smolowitz, S. J. Wahltinez, G.M. Wessel, T.M. Work, H.A. Zaki, and **J.P. Wares**. 2022. A review of Asteroid biology in the context of sea star wasting: possible causes and consequences. *The Biological Bulletin* doi: 10.1086/719928.

2021 (5)

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- Ruiz-Ramos, D. V., L. M. Schiebelhut, K. J. Hoff, **J. P. Wares**, M. N. Dawson. 2020. Genomic autopsy of sea star wasting disease in a keystone predator, *Pisaster ochraceus*. *Molecular Ecology* doi: 10.1111/mec.15386.
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2018 (2)

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2017 (5)

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2016 (8)

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2012 (8)

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2011 (4)

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- Wares**, J. P. 2002. Community genetics in the northwestern Atlantic intertidal. *Molecular Ecology* 11: 1131-1144.
- Wares**, J.P, S.D. Gaines and C.W. Cunningham. 2001. A comparative study of asymmetric migration events across a marine biogeographic boundary. *Evolution* 55 (2):295-306.
- Wares**, J.P. 2001. Intraspecific variation and geographic isolation in *Idotea balthica* (Isopoda: Valvifera). *Journal of Crustacean Biology* 21(4): 1007-1013.
- Wares**, J.P. 2001. Biogeography of *Asterias*: North Atlantic climate change and speciation. *Biological Bulletin*, 201(1): 95-103.

Wares, J.P. and C. W. Cunningham. 2001. Comparative phylogeography and historical ecology of the North Atlantic intertidal. *Evolution* 55 (12): 2455-2469.

Wares, J.P. 2001. Patterns of speciation inferred from mitochondrial DNA in North American *Chthamalus* (Cirripedia: Balanomorpha: Chthamaloidea). *Molecular Phylogenetics and Evolution* 18(1): 104-116. **My first publication!**

Unrefereed

Francis, I.G.* & J. P. Wares 2022. [Mitochondrial diversity in the ribbed mussel, *Geukensia demissa*, relative to high marsh plant diversity at the southern edge of the distribution](https://www.biorxiv.org/content/10.1101/2022.01.16.476515v1) <https://www.biorxiv.org/content/10.1101/2022.01.16.476515v1>.

Wares, J. P. and P. Duffin*. 2019. Re-evaluation of homozygous lethality for EF1A indel polymorphism in *Pisaster ochraceus*. *bioRxiv*. (preprint) <https://doi.org/10.1101/584235>

Wares, John; Abrams, A. J.; Cunningham, C. W. (2018): Tests for shifts in allelic variation during El Niño and at different tidal heights in *Balanus glandula*. figshare. Paper. <https://doi.org/10.6084/m9.figshare.6106712.v1>

Wares JP. (2014) Why not do phylogeography on every chthamalid barnacle? The case of *Jehlius cirratus*. *PeerJ PrePrints* 2:e596v2

Wares, John (2014): Diversity in *Testudinalia testudinalis*. figshare. <http://dx.doi.org/10.6084/m9.figshare.1036348>

Wares, John; Turner, Thomas F. (2014): Mitochondrial diversity in rainbow trout and close relatives. figshare. <http://dx.doi.org/10.6084/m9.figshare.1162875>

*Small, S. T. and J. P. **Wares**. 2009. Integrative genetic assessment of threatened species of mussels (Unionidae) in the Altamaha River drainage, Georgia. Report to Georgia Dept. Natural Resources, April 1 2009.

Wares, J. P. and 14 student authors. 2007. Genetic assessment of Spring Street (Athens, Georgia) crayfish population. Report to Georgia Dept. Natural Resources, December 10 2007.

Teaching

2018 Sandy Beaver Excellence in Teaching Award
2018 Odum School of Ecology Outstanding Teacher

Lecture Courses (past 5 years, not counting undergrad/grad research)

**developed course or substantial new course material*

2022-2023

GENE 8420 Molecular Ecology

ECOL 3400 Professional Development

2021-2022

BIOL 1104

ECOL/GENE 4530/6530 Molecular Ecology

2020-2021

BIOL 1104 (Biology for Non Majors) (Fall 2020, Fall 2021)

FYOS 1001 (The Museum Experience)

Guest lecturer: GMNH Internship class, ECOL 3400, ECOL 3500, Dunwoody HS

2019-2020

BIOL 1104 Biology for Non-Majors (Fall 2019)

ECOL 4950 Senior Seminar (Fall 2019)

GENE 4530/6530 Molecular Ecology (Spring 2020)

Guest Lectures: FYOS 1001 (CEID, Fall 2019); GMNH Interns Program (Fall 2019)

2018-2019

BIOL 1104 Biology for Non-Majors (Fall 2018)

GENE 8880 Communications (Fall 2018)

2017-2018

BIOL 1104* Biology for Non-Majors (Fall 2017)

GENE 8420 Molecular Ecology (Spring 2018)

2016-2017

GENE 8840* Coalescent Theory (Fall 2016)

ECOL 8000* Intro Grad Ecology (Fall 2016)

2015-2016

FYOS 1001* "Monsters are Useful" (Fall 2015)

GENE 3000H* Honors Evolution (Fall 2015)

GENE 8420* Molecular Ecology (Spring 2016)

2014-2015

GENE 4840/BIOL 4910* Evolution/Climate Change in the Ocean (Spring 2015)

2013-2014

GRSC 7770 Teaching Methods (Fall 2013)

GENE 3000* Intro Evolution (Fall 2013)

2012-2013

GENE 8160* Advanced Evolutionary Genetics (Spring 2013)

GENE 3000 (Fall 2012)

GENE 3000H* Honors Evolution (Fall 2012)

prior: Invasion Biology (GENE 8840), Biodiversity Genetics (GENE 8840), Molecular Ecology (GENE 8420), Evolutionary Genetics (GENE 8160), Intro. Evolution (GENE 3000), Genetics Grad Intro (GENE 8000), Coalescent Theory (GENE 8840)

Lab/Workshop Courses (past 5 years, not counting undergrad/grad research)

2021 DNA Barcoding of Freshwater Mussels, Albany State University and Flint Riverquarium Partnership

2016-2017

FHL 568A* Evolution/Climate Change in the Ocean (Summer 2016)

prior: Evolutionary Genetics GENE 4230L (5 times, course creator); Conservation/Biodiversity Genetics - Organization for Tropical Studies; Phylogenetics Workshops - University of Hawaii, Universidad Católica del Norte (Coquimbo, Chile)

Teaching Improvement

Sustainability in the Curriculum workshop participant, UGA CTL, May 2013

CTL Writing Fellow, 2014-2015

Faculty Learning Series on mentoring, 3/4/20 at UGA Professional Development DEI workshop w Adrianna Gonzales, 10/9/20

Service: University of Georgia

Franklin College Faculty Senate, 2005-2008

Interdisciplinary Life Sciences (EEO) Graduate Admissions Committee, 2009

Georgia Genomics Facility, Asst. Research Scientist Search Committee, 2009

ILS Curriculum Committee, 2012-3

University Council, 2017

Division of Biology, Lecturer Search Committee, 2019

Department of Genetics

Search Committee, Molecular Evolution, 2005-6

Faculty Mentor, Genetics Grad Student Association, 2009-2011

Executive Committee, 2009-2010

ESD-EPA Departmental Lead, 2009-2010

Sustainability Coordinator, 2010-2016

Search Committee, Plant Geneticist, 2010-2011

Co-Director, NIH Training Grant, 2009-2012

Tenure-Track Evaluation Committee, Melissa Davis, 2012

Third-year review committee, Tessa Andrews, 2016

Graduate Coordinator, 2011-2016

Executive Committee, 2018-2020

Graduate Affairs Committee, 2006-2016; **2018-**

Teaching Improvement Committee, **2019-**

Odum School of Ecology

Search Committees, Population *and* Evolutionary Ecologists, 2007
Search Committee, Extraordinary Ecologist, 2012-2013
Promotion & Tenure Committee, 2015-2018
Diversity Committee, 2015-2016
Facilities Committee, 2017-2018
Chair, Lecturer Positions Search Committee, 2017
Graduate Committee, 2019-2022
Promotion & Tenure Committee, 2021-

Genetics & Ecology

Search Committee Co-Chair, Molecular Ecologist, 2013-2014

Georgia Museum of Natural History

Lester D. Stephens Porifera donation
Mac Callaham oligochaete collection

Service: Peer Review and Professional Societies

Journals

Peer reviewer for over 25 international journals; documentation available.
Associate Editor, *Evolution*, 2011-2013
Editorial Board, *The Biological Bulletin*, 2017-2022
Editorial Board, *Frontiers in Marine Science*, 2019-2021

Funding Agencies

ad hoc reviews for National Science Foundation; Georgia Sea Grant; Leverhulme Trust;
Portuguese Science Foundation, FONDECYT (Chile); KAUST
Review Panel, NSF Biological Oceanography, November 2012

Service: Synergistic Activities

Undergraduate Training

REU Mentor - Georgia Coastal Ecosystems LTER, 2006; Fungal Genomics &
Computational Biology, 2007-2008; SUNFIG Mentor, 2009
NSF "Undergraduate Mentoring in Environmental Biology" SSE (2004-2006)
Sustainability in the Curriculum workshop participant, UGA CTL, May 2013
CTL Writing Fellow, 2014-2015
UGA Honors Program Lunchbox, 2016
STaRS career fair, Georgia Gwinnett College, April 2013
"About Graduate School" Panelist, 2015 SEEC Conference, Athens, GA, March 2015

2021 DNA Barcoding of Freshwater Mussels, Albany State University and Flint Riverquarium Partnership

International Outreach

Marine Phylogeography Workshop, Universidad Catolica del Norte, Coquimbo, Chile, November 2011

UC-MEXUS advisor (2004-2005)

Judge, AAAS Workshop “Empowering Minority Engineers & Scientists to Reach for Graduate Education” (2005); Western Society of Naturalists Student Presentations (2005); Benthic Ecology Meeting (2010)

Organizational

Symposium Organizer, International Biogeographic Society (2007)

Steering Committee for Biodiversity Science and Education Initiative (2005-2007)

NSF Biological Oceanography ECCO Marine Adaptation Workshop (2010)

Organizer, Union of Athens Scientists (2017)

Steering Committee, RCN-Evolution in Changing Seas (2018-2021)

Online

contributor, *EEB & Flow* science blog (evol-eco.blogspot.com) in 2010

contributor, *TheSeaMonster.net* ocean science blog

<http://theseamonster.net/2012/11/evolution-in-the-changing-oceans/>

<http://theseamonster.net/2013/01/turbulence/>

Community

LemonAid Volunteer, 2011 (<http://lemonaid.uga.edu/>) – explaining coral disease and diversity research to local 4th grade students at Fowler Drive Elementary

Funded Biological Illustration BS student Melissa Merrill to do first illustration of *Notochthamalus scabrosus* since Darwin’s 1854 monograph

President, Friends of the Georgia Museum of Natural History, 2017-2021

At-large board member, SORBA-Athens, 2020-

Funding & Awards

Pending

Strauss, Cortez, and Wares.

Collaborative Research: RUI: Gluers, Grippers, and Gougers: Host-adapted Diversification of Barnacles Epizootic With Marine Megafauna and their Turtlescape Genomics, co-PI, \$355306, 2024-2026, National Science Foundation

Current

Collaborative Research: Selection and genetic succession in the intertidal - population genomics of **Pisaster ochraceus** during a wasting disease outbreak and aftermath. National Science Foundation, 2017-2023, \$264,233 + \$78,450 Supplemental award in 2022

Prior

Provost Research Award, Population genetics and aquaculture of *Mytilus chilensis*, 2014-2015

Whiteley Center Fellow, Friday Harbor Laboratories, Summer 2014

FONDECYT (Chile) collaborator with Dr. Pilar Haye and Dr. Cris Gallardo-Escartin on aquacultural genetics and diversity in coastal Chile

National Institute of Health Kirchstein T-32 training grant for UGA Genetics, May 2011. Co-director and proposal writer, stepped down to be Graduate Coordinator.

National Science Foundation *Collaborative Research: Evaluating marine clines to predict larval retention*; PI, OCE Panel, February 2010 (NCE)

National Science Foundation *Collaborative Research: Ecology of a Reverse Zoonosis: Human-Environment Interactions in the Transmission, Persistence, and Virulence of White Pox Disease in Elkhorn Coral*; co-PI, EID Panel, December 2009, with NCE ends 2015

National Science Foundation *Collaborative Research: A mechanistic understanding of biogeographic patterns and life histories in advective environments*; Biological Oceanography panel, August 2009

US Department of Interior USFW *Genetic monitoring throughout the South Atlantic Ecosystem*; partnership with Greg Moyer, September 2011, **\$133,480**

National Geographic Society *Coastal salt marshes and phylo-oceanography: Supply lines for a high productivity ecosystem*; 2008-2011, **\$18,500 (PI)**

UGA Research Foundation *Evaluating the Evolutionary Stability of a Species*; 2009-10, **\$9,455 (PI)**

National Science Foundation *Georgia Coastal Ecosystems LTER II*; NSF-OCE-0620959, 2006-2012, **\$4,919,998 to team**

My role in this LTER has been population and landscape genetics in the GCE system of 8-10 invertebrate and some plant species, as well as ongoing population genetic analysis of other marsh herbivores.

U.S.-Israel Binational Science Foundation *Global Phylogeny of the Barnacle Genus Chthamalus*; BSF 2004/239, 2005-2009, **\$125,000 (co-PI)**

Georgia Department of Natural Resources State Wildlife Grant *Integrative Assessment of Threatened Species of Mussels (Unionidae) in the Altamaha River Drainage, Georgia*; 2007-2009, **\$25,932 (PI)**

UGA Research Foundation *Population Genetics of the Coastal Salt Marsh Community*; 2007-2008, **\$7,220 (PI)**

UGA Research Foundation *Using Local Species Introductions to Explore Species Invasions*; 2006-7, **\$7,000 (PI)**

UGA Research Foundation *Speciation in Tropical Intertidal Barnacles*; 2004-5, **\$6,000 (PI)**

Awards

American Genetics Association Special Events Award Funding for *Workshop in Conservation and Biodiversity Genetics*, \$12,500

International Geosphere-Biosphere Programme Funding for *International Biogeography Symposium on Marine Biodiversity*, 2006, \$4,000

Most Reproductively Accurate Costume, *Friday Harbor Laboratories Invertebrates Ball*, 1996, 2016.

Mentoring

Postdoctoral Study

Edgardo Diaz-Ferguson, 2007-2009 (**URM researcher** funded by NSF-OCE-0620959)

Ron Eytan, 2010-2011 (funded by NSF-EID-1015342)

Safra Altman, 2011-2013 (NSF-OCE)

Christina Zakas, 2012 (funded by NSF-OCE-Chile)

Paula Pappalardo, 2013-2014 (funded by NSF-OCE)

Dusty Kemp, 2014 (NSF-EID)

Ph.D. mentor [currently **chair/co** for 3 PhD students, committee for 10 PhD students]

Chair or Co-Chair, Department of Genetics unless noted otherwise

Tina Bell (Ph.D. 2009) – now faculty at Brevard College

Scott Small (Ph.D. 2009) – currently postdoc at Case Western

John Robinson (Ph.D. 2011) – scientist with SC DNR

Christina Zakas (Ph.D. 2011) – postdoc at NYU

Meredith Meyers (coadvised; Ecology, Ph.D. 2013) – NGO, UCSD

Christine Ewers (Ph.D. 2015) – Zoological Museum, Kiel, Germany

Katie Bockrath (Ph.D. 2015) – Whitney Lab, USFW

Karen Bobier (coadvised; 2015-2020)

Kelly Petersen (Ecology, 2016-)

Paige Duffin (2018-)

Margot Popecki (coadvised; 2018-)

M.S.

Mary Rougeau Browning (coadvised; MS 2015) – Nursing school

Jared Bennett (coadvised, OSE Double Dawg 2022)

Graduate Committee (finishing date)

Judith Mank (Ph.D. 2006), Jessica Skyfield (Forestry - M.S. 2006), Chih-Horng Kuo (Ph.D. 2007), Reed Cartwright (Ph.D. 2006), Jodie Linder (Ph.D. 2009), Monica Poelchau (Ph.D. 2009), Eleanor Kuntz (Ph.D. 2011), Soo Hyung Eo (Forestry - Ph.D. 2008), Scott Cornman (Ph.D. 2006), Jeremy DeBarry (Ph.D. 2008), Ken Leonard (Ecology Ph.D. 2010), Rachel Mahan (Warnell M.S. 2012), Anna McKee (Warnell Ph.D. 2012), Jamie Winternitz (Ph.D. Ecology 2012), Tyler Kartzinel (Ecology, Ph.D 2012), Chip Small (Ecology, Ph.D. 2013), Rachel Katz (Ph.D. Ecology, 2014), Jared Lee

(Genetics, Ph.D. 2014), Louisa Carter (Genetics, Ph.D. 2014), Cheryl Pinzone (Genetics, Ph.D. 2014), Ling Dong (Plant Biology, Ph.D. 2013), Becky Shirk (Plant Biology, Ph.D. 2013), Jessica Joyner (Ecology Ph.D. 2014), Marcus Zokan (Ecology PhD 2015), Jenna Hamlin (Genetics PhD 2015), Sarah Sander (Genetics Ph.D. 2015), Keri Kemp (Ecology PhD 2017), Anya Brown (Ecology PhD 2018), Sara Heisel (PhD 2019), Cara Love (Ecology, 2020), Amanda Shaver (Genetics PhD 2022), Paul Ginsberg (Genetics PhD 2022), Rachel Perez-Udell (Plant Biology PhD 2022), Mason McNair (Plant Biology PhD 2022), Jared Bennett (Ecology MS 2022)

Samantha Bock (Ecology), Melina Giakoumis (City College of New York), Julie Blaze (Ecology), Inam Jameel (Genetics), Theresa Miorin (Genetics), Chris Smaga (ECOL), Kayla Garrett (IDIS), Miriam Edelkind (ENTO), Mariana Barros (MARS) **current n=13 with primary mentorships**

Undergraduate Research

Collin Closek (B.S. 2005), Nicole Umberger (B.S. 2007), John Binford (B.S. Honors 2007), Clare Scott (B.S. Honors 2007), Mary Pierce Zirkle (B.S. 2007), Laura Paynter (B.S. 2008), Martha Lane (B.S. 2009), Adam Smitherman (B.S. 2009), Dhara Patel (B.S. 2011), Kelly Laughlin (B.S. 2011), Bekah Lee (2012-2013), Kerem Kiliç (B.S. 2013), Danielle Heubel (B.S. 2015), Leah Besch (B.S. 2015), Tim Makinde (B.S. 2016), Neva Hope (B.S. 2016), Emma Pistole (B.S. 2016), Katelyn Chandler (posthumous B.S.), Kat Clancy (B.S. 2018), Katie Skoczen (B.S. 2018), Kat Christie (BS 2020), Adam Greer (BS 2020), Ivy Francis (BS 2020), Brady Griggs (BS 2020), Jared Bennett (DD), Ben Frick, Kimani Smith

Summer Research Experience for Undergraduates (REU)

Madeline Cozad (NSF LTER REU, B.S. 2006), Becky Miller (NSF Fungal Genomics), Jesyka Meléndez (**SUNFIG**, University of Puerto Rico)

Public Service

Athens-Clarke County State Court Juror, May 1 2006
Neighborhood Traffic Management Advisory Board, Athens-Clarke County, Jan. '07-'08
BikeAthens Board of Directors, June 2007-2008
Southern Off-Road Bicycle Association (SORBA), Secretary (2011), service 2010-2015, 2020-
Founder, Union of Athens Scientists, Science Athens, 2017

Invited Research Presentations

Southern Wesleyan University, March 2022
Dunwoody HS, October 2020
University of Maryland Baltimore County, May 2018
University of Tennessee, November 2017
CEID-UGA, July 2017
Friday Harbor Labs, June 2017

College of Charleston - September 2016
Skidaway Institute of Oceanography - April 2016
Auburn University - March 2012
Universidad Católica del Norte (Chile) - October 2011
Wrigley Institute of Environmental Sciences - May 2010
University of North Carolina at Asheville - February 2010
Crustacean Society International Meeting, invited symposium speaker, Tokyo - 2009
Emory University – January 2009
Pontificia Universidad Católica de Chile – April 2008
University of North Carolina – April 2008
University of Georgia, Odum School of Ecology – October 2007
University of Tennessee – September 2007
Penn State University – May 2007, BGSA Sponsored Speaker
Clemson University – October 2006
UGA-American Fisheries Society – 2006
Hawai'i Institute of Marine Biology – August 2005
University of South Carolina – February 2005
Ecological Society of America, invited symposium speaker – August 2004
NCEAS – Invasive Species Working Group – March 2004, October 2005
UC Berkeley - September 2003
Scripps Institute of Oceanography - October 2002

Past Proposals Submitted/Not Funded

Collaborative Research (Wares, Kelly, Govindarajan, Chan) [NSF]

NSF proposal with J. E. Byers (info)

Lineage characterization, microgeographic distribution, and regional dispersal in the invasive clinging jellyfish **Gonionemus**. Woods Hole Sea Grant, 2018-2020, \$150,074

National Geographic Society Committee for Research and Exploration, submitted 8-29-2016, \$17,000 for disease work on the intertidal seastar *Pisaster ochraceus*

National Science Foundation, Biological Oceanography, submitted 8-15-2016, \$745,000 for work on the invasive porcelain crab *Petrolisthes armatus* (Jeb Byers, co-PI)

National Science Foundation pre-proposal, 2015; declined

National Science Foundation CNIC program, January 2014. US-Chile planning visit to establish phylogeography as a predictive tool in mussel aquaculture. **\$74,780, declined summer 2014.**

National Institute of Health, “Using ecological models to quantify cellular communities”, declined spring 2014

National Geographic Society, declined November 2012 (Patagonian phylogeography)

National Institute of Health, *A Biogeography of the Developing Thymus*, co-PI with Nancy Manley and Andrew Sornborger, ~\$1.5 million, April 2010, 2011

National Science Foundation, *Collaborative Research: RAPID: Microbial community and pathogen response to the Deepwater Horizon oil spill in scleractinian corals*

Acropora palmata and *Montastrea faveolata*, Jim Porter, Erin Lipp, \$122,170, June ‘10

National Science Foundation *Genetic Assessment of Freshwater Mussel Diversity: Effects of Impoundments on Rivers*; Evolutionary Processes panel, July 2009, **\$481,670 (PI)**

National Fish and Wildlife Foundation, *Coral Reef Conservation Fund: Effectiveness of new fisheries regulations in Belize*, October 2009, co-PI

National Science Foundation *Phylo-Oceanography of the South American Pacific Coast: Barnacles as Model Organisms*; Biological Oceanography panel, February 2009, \$205,900

National Institutes for Health *A Community Ecology-Based Multiscale Model of the Thymus*; 2009-2012, co-PI with N. Manley, \$1.25m

U.S. Department of Defense Freshwater Macroinvertebrate Investigations EL-13 FY 2008, *Genetic assessment of freshwater mussel diversity: Impoundments on Rivers*; \$125,375

National Science Foundation co-PI on RUI proposal

Gates Foundation Ecology & Development of Mouse Thymus (2008)

National Science Foundation “CAREER: Biased Migration and the Maintenance of Marine Diversity”, July 2007, \$644,000

Georgia Sea Grant Exploration of coastal dynamics using invasive *Petrolisthes armatus*; Amanda Hollebhone, Georgia Southern University, co-PI, 2007, \$73,934

Florida FWC “A New Species of Coral in Florida”, \$65,238, 2007, co-PI with J. W. Porter, Ecology

National Science Foundation “Molecular Evolution as an Approach to Southeastern Biogeography”, \$230,943 July 2006

National Science Foundation IGERT “Conservation Biogeography: Improving the natural and social science basis for conservation in a global-change world.” Co-PI with S. Hubbell (Plant Biology), P. Gowaty (Ecology), D. Sax (Ecology), P. Brosius (Anthropology); March 2006 ([also in 2005](#)).

National Science Foundation “Correlating biodiversity measures in the North Atlantic Peracaridean fauna,” \$405,516 Jan. 2006 and January 2005