

# Rebecca M. Varney

## Postdoctoral researcher

University of California, Santa Barbara  
Ecology, Evolution, and Marine Biology  
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## Oakley Lab

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## EDUCATION

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- Ph.D. Biology** 2017-2021  
University of Alabama, Tuscaloosa, Alabama  
Dissertation: Biomineralization in the radula of the chiton *Acanthopleura granulata*  
Committee Members: Kevin Kocot, Matthew Jenny, Michael McKain, Laura Reed, Daniel Speiser
- M.S. Biology** 2013-2016  
University of West Florida, Pensacola, Florida  
Thesis: Telomere elongation in regenerating tissues of the Grey Sea Star *Luidia clathrata*  
Committee Members: Christopher Pomory, Alexis Janosik, Hui Min Chung
- B.S. Genetics** 2007-2011  
University of California at Davis, California

## PROFESSIONAL APPOINTMENTS

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- Friday Harbor Laboratories Summer Instructor** Summer 2023  
Marine Invertebrate Zoology, co-taught with Dr. Megan Schwartz
- Postdoctoral Researcher** 2021-present  
University of California, Santa Barbara, Oakley Lab

## PUBLICATIONS

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(>480 citations)

- X. Lau E, **Varney RM**, Schultz DE, Oakley TH. Horizontally transferred genes are recruited in the evolution of lensed light-interacting organs. (in prep, draft available upon request, expected submission February 2024)
- X. **Varney RM**, Kingston ACN, Kocot KM, Speiser DI. Chitons modulate pH and withstand oxidative stress to biomineralize iron-clad teeth (In prep, full text available by request. Expected submission March 2024)
- X. **Varney RM**, Speiser DI, Cannon JT, Aguilar MA, Eernisse DJ, Oakley TH. A morphological basis for path dependent evolution of visual systems. In 2<sup>nd</sup> review post-revision, Science; available on bioRxiv doi: <https://doi.org/10.1101/2022.12.20.520810>
12. **Varney RM**. (2023) The GEMS Checklist for clear and reproducible Genomics in Emerging, Marine Systems. Integrative and Comparative Biology. icad082. <https://doi.org/10.1093/icb/icad082>
11. Zehnpfenning JR, **Varney RM**, Halanych KM, Mahon AR. (2022) Mitochondrial genomes provide insight into interfamilial relationships within Pycnogonida. Polar Biology doi: 10.1007/s00300-022-03085-6
10. **Varney RM**, Yap-Chiongco MK, Mikkelsen NT, Kocot KM. (2022) Genome of the lepidopleurid chiton *Hanleya hanleyi* (Mollusca, Polyplacophora). [version 1; peer review: 1 approved]. F1000Research 2022, 11:555 (<https://doi.org/10.12688/f1000research.121706.1>)
9. Drábková1 M, Zrzavý J, Halanych KM, Oakley TH, Moroz LL, Cannon JT, Kuris A, Garcia-Vedrenne AE, Pankey MS, Ellis EA, **Varney RM**, Štefka1 J, and Kocot KM. (2022) Different phylogenomic methods support monophyly of enigmatic ‘mesozoans’ Dicyemida and Orthonectida (Lophotrochozoa)

Proc. R. Soc. B.289:20220683.20220683 <http://doi.org/10.1098/rspb.2022.0683>

8. Nehmens MC, **Varney RM**, Janosik AM, Ebert DA (2021) Telomere length and longevity: an exploratory study using a deep-sea shark, *Etmopterus granulosus*. *Frontiers in Marine Biology* 8,267. doi: 10.3389/fmars.2021.642872
7. **Varney RM**, McDougall C, Degnan BM, Speiser DI, Kocot KM. (2021) The iron-responsive genome of the chiton *Acanthopleura granulata*. *Genome Biology and Evolution*. 10.1093/gbe/evaa263
6. **Varney RM**, Schroedl M, Brenzinger B, Meyer C, Malaquias MA, and Kocot KM (2021) Assessment of mitochondrial genomes for heterobranch gastropod phylogenetics. *BMC Evolutionary Biology*. doi: 10.21203/rs.3.rs-30542/v1
5. Kocot KM, Wollesen T, **Varney RM**, Schwartz ML, Steiner G, Wanninger, A (2019) Complete mitochondrial genomes of scaphopod molluscs. *Mitochondrial DNA Part B*, 4:2, 3161-3162 doi 10.1080/23802359.2019.1666689
4. **Varney RM**, Funch P, Kocot KM, and Sørensen, MV (2019) A new species of Echinoderes (Cyclorhagida: Echinoderidae) from the San Juan Islands, Washington State, USA, and insights into the kinorhynch transcriptome. *Zoologischer Anzeiger Special Issue* 282:52-63 doi: 10.1016/j.jcz.2019.06.003
3. **Varney RM**, Pomory CM, and Janosik, AM (2017) Telomere elongation and telomerase expression in regenerating arms of the starfish *Luidia clathrata* (Asteroidea: Echinodermata). *Marine Biology*. 164:195 doi: 10.1007/s00227-017-3230-x
2. DeAngelis KM, Pold G, Topcuglu B, van Diepen L, **Varney RM**, Blanchard J, Melillo F and Frey S (2015) Long-term forest soil warming alters microbial communities in temperate forest soils. *Frontiers in Microbiology*. 6:104 doi: 10.3389/fmicb.2015.00104
1. DeAngelis KM, Sharma D, **Varney R**, Simmons B, Isern NG, Markillie LM, Nicora C, Norbeck AD, Taylor RC, Aldrich JT and Robinson EW (2013) Evidence supporting dissimilatory and assimilatory lignin degradation in *Enterobacter lignolyticus* SCF1. *Frontiers in Microbiology*. doi: 10.3389/fmicb.2013.00280

## ARTICLES (NON-PEER REVIEWED)

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2. **Varney RM**, Heinrich KK. (2021) A Garden, Not a Leaky Pipeline. *The Teaching Professor*.
1. **Varney RM** “The Wonders of Mud at FHL” (2019) Friday Harbor Laboratories Tide Bite. <http://depts.washington.edu/fhl/tidebites/Vol73/index.html>

## PRESS

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1. Scientist finds professor who supported her love for bugs when she was 4. By Dawn Fallik, *Washington Post*. May 21, 2022 <https://www.washingtonpost.com/science/2022/05/21/bugs-rebecca-varney-vernard-lewis/>

## GRANTS AND FELLOWSHIPS

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eDNA Barcoding to Provide Vernal Pool Assessment Without Disturbance Grant to collaborate with the Los Angeles Museum of Natural History, 2022	<b>\$15,000</b>
UCSB Individualized Professional Skills (IPS) Grant Program Grant in support of field research, 2022	<b>\$1,000</b>
“Tiny brains, big ideas: convergent evolution of complex processing centers across arthropods” Split-Seq Single-cell Sequencing Core Lab Grant, 2021	~ <b>\$16,000</b>
Research Experience for Post-Baccalaureate Students (REPS), 2021 In collaboration with Todd Oakley, supports one post-bac student on salary for a full year of research as an extension to an existing NSF grant	<b>\$48,675</b>
Marine Biological Laboratories Support Grant, 2020	<b>\$6,500</b>

Course Fellowship, Embryology	
University of Alabama Graduate Council Fellowship, 2020-2021 Research Fellowship	<b>\$44,497</b>
American Genetics Association Grant for Invited Symposium Speakers World Congress of Malacology Genomics Session, 2019	<b>\$500</b>
American Genetics Association Student Travel Grant, 2018 Flights and lodging for GIGAiii	<b>\$2000</b>
University of Alabama Student Travel Grant, 2018 Field work in Curacao	<b>\$500</b>
Lerner-Gray Memorial Fund, 2018 Field work in the Florida Keys	<b>\$2217</b>
Conchologists of America, 2018 Field work in the Florida Keys	<b>\$2218</b>
E.O. Wilson Biodiversity Fellowship, Summer 2018 Dissertation field work in the Florida Keys	<b>\$5000</b>
Western Society of Malacologists Research Grant, 2018 Differential gene expression analysis in the iron-mineralized radulae of four species of chitons from the Pacific Northwest	<b>\$1000</b>
University of Alabama Graduate Council Fellowship, 2018-2019 Research Fellowship	<b>\$44,497</b>
Charlotte Magnum Travel Award, Fall 2017 SICB 2018 Housing	<b>\$1500</b>
University of Alabama Travel Grant, Fall 2017 Travel to SICB 2018	<b>\$1000</b>
E.O. Wilson Biodiversity Fellowship, Summer 2017 Dissertation field work in Washington State, Friday Harbor Marine Labs	<b>\$5000</b>
Alan J. Kohn Endowed Fellowship at UW Friday Harbor Laboratories, Summer 2017 Marine Invertebrate Zoology	<b>\$2000</b>
UWF Scholarly and Creative Activities Committee Research Grant Class B, Fall 2015 Post-regeneration telomere elongation in <i>Luidia clathrata</i>	<b>\$500</b>
UWF Scholarly and Creative Activities Committee Travel Grant Class C, Spring 2015 Novel microsatellites for the Gulf of Mexico hagfish	<b>\$500</b>
UWF Scholarly and Creative Activities Committee Research Grant Class A, Fall 2014 Development of novel microsatellites for three Gulf of Mexico hagfishes	<b>\$1000</b>

## OTHER AWARDS

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- Arts and Sciences Outstanding Doctoral Dissertation Award, University of Alabama 2021
  - Best Graduate Student Presentation, American Society of Microscopy, SICB 2020 **\$150**
  - Ralph L. Chermock Prize to the most outstanding graduate student in  
systematics and ecology, 2020 **\$800**
  - Outstanding Teaching by a Graduate Student Fall 2019
  - Best Student Talk, World Congress of Malacology, 2019. **\$300**
  - Joab Langston Thomas Scholarship for outstanding scholarship, creativity and potential as a scholar  
and teacher, 2019. **\$2500**
  - Chair's Scholarship for Outstanding Contribution to Teaching in Biological Sciences, University of  
Alabama, 2017 **\$2500**

- Most Physiologically Accurate, Friday Harbor Laboratories Invertebrate Ball Costume Contest, 2017
- Outstanding Graduate TA, University of West Florida, 2015
- Best Graduate Presentation, Hal Marcus College of Science and Engineering Student Scholars Symposium, 2016 **\$250**
- 2nd Place Overall Graduate Presentation, University of West Florida Student Scholars Symposium, 2016 **\$500**

## DIVERSITY, EQUITY, AND INCLUSION ACTIVITIES

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### Activities

- Mentor for Women Lead - UF Institute for Early Career Scholars, matches new graduate students with an external mentor to help them navigate graduate school. (<http://postdoc.aa.ufl.edu/programs/women-lead/>)
- Letters to a Pre-Scientist - Scientist pen-pal for students in schools from lower-income communities/schools with a low percentage of students continuing to college. 2017-2018, 2018-2019, 2019-2020, 2020-2021, 2021-2022

### Workshops Organized

- Junior Faculty Launch Workshop - SICB 2022. This program is aimed at decreasing the phenomenon of insider knowledge in the academic job search. Co-organized by Deidre Lyons (UC San Diego), Billie Swalla (University of Washington), and Leslie Babonis (Cornell) I was invited to be the post-doctoral member of the panel, and will continue to participate in future years, ideally as I progress in career stage.

### Workshops Attended

- Mental Health First Aid, online course. October 2022.
- Building a Better Fieldwork Future (BBFF) - offered through UC Santa Cruz, this workshop focuses on preventing and addressed harassment and assault in fieldwork settings. March 15, 2022.
- Implicit Bias Workshop - offered through UCLA for postdoctoral researchers. September 2021
- DEI-Sensitive Mentorship Workshop - offered by the Society of Developmental Biology, directed by Dr. Nancy Schwartz. July 2020.
- Strategies to Identify Bias in the Culture of Biology - offered by the Society of Developmental Biology, directed by Dr. Loydie Jerome-Majewska. July 2020.
- Racism, Microaggression, Social Injustice, and Minority Mental Health- seminar offered by Dr. Nahree Doh, hosted by the University of Alabama DEI Office. July 7, 2020.

### Memberships

- Graduate Women in Science (GWIS), President (2013-2016) and co-founder
- Association of Women in Science

## INVITED TALKS AND SEMINARS

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University of Washington, Friday Harbor Labs	August 16, 2023
A morphological basis for path dependent evolution of visual systems in chitons.	
Purdue	April 18, 2023
The limits of life: how evolution turns animals into extreme survivors.	
University of Wisconsin, Madison	April 13, 2023
The limits of life: how evolution turns animals into extreme survivors.	
The University of Ohio	February 13, 2023
The limits of life: how evolution turns animals into extreme survivors.	

Natural History Museum of Oslo, Tangled Bank Evolution Series Extreme environments, inside and out: how animals evolve to live with toxins.	October 13, 2022
<b>Keynote Address</b> - NSF Genomics Education Partnership Regional Node Meeting To crack a chiton: new challenges for gene annotation in non-model organisms	April 22, 2022
University of Florida, Biology Seminar Series. Iron teeth and dried out shrimp: how invertebrates are stressed for success	November 30, 2021
California State University, Fullerton, Biology Seminar Series. Iron biomineralization in the chiton radula	November 3, 2021
Mem. Univ. of Newfoundland, Friday Light Informal Research Talk (FLIRT) series. Iron-clad teeth in chitons: how to avoid cavities without really trying	September 11, 2020
SpiraliaBase Virtual Lab Meeting Series High Molecular Weight DNA Extraction Techniques in Spiralian	September 10, 2020
World Congress of Malacology, Utility of Molluscan Genomics Session An Aculiferan perspective on molluscan mineralization <b>Awarded Best Student Talk</b>	August 2019

## ORAL PRESENTATIONS

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Society of Integrative and Comparative Biology The role of iron-response elements (IREs) in regulating translation during iron biomineralization in the chiton radula <b>Rebecca M. Varney</b> , Alexandra C.N. Kingston, Kevin M. Kocot, Daniel I. Speiser	January 4, 2022
Society of Integrative and Comparative Biology Chitons on the cutting edge: the biomineralization of iron-clad teeth in <i>A. granulata</i> <b>Rebecca Varney</b> , Daniel I. Speiser, Alexandra C.N. Kingston, Kevin M. Kocot	January 7, 2021
Society of Integrative and Comparative Biology The genome of the chiton <i>A. granulata</i> : an Aculiferan perspective on molluscan mineralization <b>Rebecca M. Varney</b> , Caramel McDougall, Bernie Degnan, Daniel I. Speiser, Kevin M. Kocot	January 5, 2020
5th Annual Scalidophoran Conference A new species of Echinoderidae and first insights from the kinorhynch transcriptome <b>Rebecca Varney</b> , Peter Funch, Kevin Kocot, Martin Vinter Sørensen	January 23, 2019
UWF Biology Seminar Series Telomere elongation in regeneration tissues of <i>Luidia clathrata</i> <b>Rebecca Varney</b> , Alexis Janosik, Christopher Pomory	October 15, 2016

## FORMATIVE COURSEWORK

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<b>Embryology</b> - MBL Woods Hole A course driven by fearless curiosity and nigh unlimited resources.	Summer 2022
<b>Invertebrate Zoology</b> - Friday Harbor Laboratories A (sometimes literally) immersive course taking full advantage of the biodiversity of the San Juan Islands to embrace invertebrate diversity.	Summer 2017
<b>Integrated Genomics</b> - UA A CURE (Course-based Undergraduate Research Experience), run by the now-head of the NSF Genomics Education Partnership. I facilitated class activities and assisted undergraduates in genome annotation.	Spring 2017

## RESEARCH EXPEDITIONS

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<b>Antarctic Research Cruise</b> RVIB Nathaniel B. Palmer Weddell Sea and Peninsula, sampling for benthic invertebrates	September 20-December 18, 2020
<b>LA Urban Ocean BioBlitz</b> BioBlitz under Dr. Gustav Pauley alongside the LA Museum of Natural History, day trips aboard the Ocean Sentinel Sediment grabs and sorting	August 19-August 31, 2019
<b>DISL Meiofauna Diversity and Taxonomy Workshop</b> Meiofaunal collection and sorting in collaboration with Dr. Kelly Dorgan's laboratory at the Dauphin Island Sea Lab, day trips aboard the R/V E.O. Wilson Sediment collection and sorting	August 4-August 10, 2019
<b>Meiofaunal Sampling, Ft. Pierce</b> Day trips aboard the R/V Sunburst Sediment grabs and sorting	May 11-15, 2018
<b>South Carolina Department of Natural Resources</b> Coastal Shark and Red Drum Population Surveys, R/V Silver Crescent Longlining along Atlantic Coast	September 2-September 5, 2014
<b>Deep-C Consortia Research Cruise</b> Florida State University, R/V Apalachee Deep sea longlining in the Gulf of Mexico	June 30-July 4, 2014
<b>Gulf of Mexico Reef Monitoring</b> Deep sea line fishing for triggerfish and red snapper	September 2013

## TEACHING EXPERIENCE

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FHL Marine Invertebrate Zoology Co-instructor with Dr. Megan Schwartz Friday Harbor Laboratories, University of Washington	Summer 2023
Guest Lecture: Macroevolution and Tree Thinking Introduction to Evolution at University of California Santa Barbara (Dr. Eleanor Cave's invitation)	March 2, 2022
Guest Lecture & Guided Lab: Meiofaunal Invertebrates Marine Invertebrate Zoology Field Course at the University of Florida, taught on-site at Carmabi field station in Curacao (Dr. Gustav Paulay's invitation)	February 12, 2020
Guest Lecture: The Immune System Principles of Biology, II	October 24, 2019
Invited Lecture: Introduction to the Shell Bioinformatics	August 23, 2018
Invited Lecture: Sequencing Phage Genomes with 3rd Generation Technology Phage Discovery	April 11, 2018
Graduate Teaching Assistant Microbes and Man	Spring 2017 - Spring 2020
Instructor of Record Biology I Laboratory *Instructor of Record indicates that instructional context of the course was formatted and grades were assigned by that individual	Spring 2015 - Fall 2016
Coursework Development Collaborative development of laboratory curriculum and student lab manual for Biology I Laboratory	Spring 2015 - Fall 2016

Graduate Teaching Assistant  
Marine Vertebrate Zoology  
Introduction of Marine Biology and Oceanography for Non-Majors  
Biology I Laboratory

Fall 2014

**\*Very positive teaching evaluations and comments from students and faculty observers available upon request.**

## MENTORSHIP

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### Singular supervision

UC Santa Barbara Fall 2023 - Present	Partial supervisor of post-baccalaureate Chelsea Steel, a laboratory technician hired to assist on a phylogenomic analysis of cleaner shrimp using museum specimens in collaboration with the Caves Lab.
UC Santa Barbara Spring 2023 - Present	Direct supervisor of undergraduate Nicholas Noel, who is completing an independent research project that will result in a publication before he applies to graduate school this fall.
UC Santa Barbara Fall 2021 - Summer 2022	Direct supervisor of <b>NSF REPS Scholar</b> post baccalaureate Cheyenne McKinley*, who was awarded a GRFP Fall 2022
UC Santa Barbara Fall 2021 - Spring 2022	Direct supervisor of undergraduate Victoria Scriven*, who is completing an independent research project that will result in a publication; she is now continuing in medical school.

### Graduate Student Training and Supervision

University of West Florida Spring 2014 - Fall 2015	Supervised <b>three</b> graduate student directed independent studies (B. McAcy, E. Stein, A. Earls) and trained <b>four</b> additional graduate students in genetic techniques (S. Cecil, M. Davis, C. Nash, A. Egan)
Univ. of Massachusetts Fall 2011 - Spring 2013	Trained <b>three</b> graduate students in anaerobic culturing techniques (A. Billings, F. Abdul-Rahman, D. Sharma)

### Undergraduate Student Training and Supervision

University of Alabama Fall 2018 - Spring 2021	Assisted with laboratory and bioinformatics training for <b>three</b> undergraduates (E. Pabst*, R. Partain, C. Pruettt)
University of West Florida Fall 2013 - Spring 2016	Trained and supervised the directed independent studies of <b>thirteen</b> undergraduate research assistants in basic laboratory skills and genetic techniques (K. Vaccaro*, A. Johanssen, H. Sthole*, H. Schmuki*, L. Hartigan, A. Nes-smith, R. Rogers, C. Howard, E. Miller, N. Zielinski*, I. Bollinger*, A. Brooks*, K. Price)
Univ. of Massachusetts Fall 2011 - Spring 2013	Trained <b>three</b> undergraduate research assistants in microbiology laboratory techniques (D. Burkhardt*, B. Surjawan*, G. Gundersen) * denotes an undergraduate or post baccalaureate student that went on to pursue a graduate or medical degree

## SERVICE

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**Reviewer:** Ecology & Evolution, Zoological Journal of the Linnean Society, Nature Communications, Zoologica Scripta, Scientific Reports, Communications Biology, Current Biology, and others.

Graduate/Postdoc Representative, Division of Invertebrate Zoology, SICB	2020-2023
Undergraduate Research Symposium Planner/Judge	April 22, 2022
Graduate Teaching Assistant Workload Assessment Committee	Academic year 2018-2019
Biology Graduate Student Association (BGSA) President	Academic year 2018-2019
Bama Biology Bootcamp, Graduate mentor	Fall 2018
Bama Biology Bootcamp Mentor Training Workshop (developed content and taught workshop)	August 11, 2018
Bama Biology Bootcamp Organization and Schedule Planning	Summer 2018
Undergraduate Research and Creative Activities (URCA) Judge	March, 2019/2018; March 29, 2018
Bama Biology Bootcamp, Graduate mentor	Fall 2017
University of West Florida Biology Department Advertising Committee	Spring 2015-Fall 2016

## OUTREACH

I Heart STEM Volunteer: led 4 sessions of a workshop for middle school girls	February 23, 2023
ArBOOretum Volunteer: arboretum tours, organization.	October 27, 2019
UA Homecoming Biology Collections Outreach Tent	October 26/13, 2019/2018
Bessemer Country Science Fair: Volunteer judge.	January 16, 2019
BioBlitz Volunteer (herbarium specimen preparation & arboretum tours)	April 21, 2018
Skype A Scientist Scientific volunteer	2017-2020
Alabama Regional Science Olympiad Competition Judge	February, 2018/2017
Volunteer, Night at the Museum	February 2019, 2018, 2017
Northwest Florida Regional Science Olympiad Competition Judge	February 2016, 2015
High school lecture- A Career in Biology	November 20, 2015
58th Annual West Panhandle Regional Science and Engineering Fair Judge	January 27, 2014
Panelist: Preparing for Graduate School	January 15, 2014

## POSTER PRESENTATIONS

Society of Integrative and Comparative Biology Localized physiological changes regulate the biomineralization of magnetite in the radula of the chiton <i>Acanthopleura granulata</i> <b>RM Varney</b> , ACN Kingston, KM Kocot, DI Speiser <b>*Best Student Presentation, AMS</b>	January 5, 2020
Entomology Two new bumble bee genomes: <i>de novo</i> assembly of <i>Bombus bifarius</i> and <i>Bombus vosnesenskii</i> genomes from long and short read sequences S Heraghty, J Strange, J Sutton, <b>RM Varney</b> , J Lozier	October 2019
BioFest, University of Alabama Radular physiology of the chiton <i>Acanthopleura granulata</i> <b>RM Varney</b> , KM Kocot, DI Speiser	September 27, 2019
Pearls of Wisdom Molluscan Genomics Conference A cost-effective strategy to obtain highly contiguous aculiferan mollusc genomes enables broader investigations of understudied molluscs <b>RM Varney</b> , MK Yap-Chiongco, NT Mikkelsen, S Pirro, DI Speiser, KM Kocot	September 2019
World Congress of Malacology Draft genome of <i>Neomenia megatrapezata</i> (Solenogastres) as a tool to study aculiferan sclerite biomineralization MK Yap-Chiongco, <b>RM Varney</b> , KM Kocot	August 2019
Evolution Assessing the genomes of <i>Drosophila</i> species for genetic indicators of alpha-amanitin tolerance O Fish, C Scott-Chialvo, <b>RM Varney</b> , LM Reed	July 2019
Global Invertebrate Genomics Alliance	October 20, 2018



The genome of the chiton *Acanthopleura granulata*  
**RM Varney**, DI Speiser, KM Kocot  
 BioFest, University of Alabama September 28, 2018  
 The genome of the chiton *Acanthopleura granulata*  
**RM Varney**, DI Speiser, KM Kocot  
 STEM Forward 2018: Shattering the STEM Ceiling April 14, 2018  
 The genome of the chiton *Acanthopleura granulata*: preliminary work toward understanding biomineralization of teeth as tough as tank armor  
**RM Varney**, DI Speiser, KM Kocot  
 Society of Integrative and Comparative Biology January 5, 2018  
 The genome of the chiton *Acanthopleura granulata*: preliminary work toward understanding biomineralization of teeth as tough as tank armor  
**RM Varney**, DI Speiser, KM Kocot  
 University of West Florida Student Scholars Symposium April 21 2016  
 Telomere elongation in regenerating tissues of the Grey Sea Star, *Luidia clathrata*  
**RM Varney**, CM Pomory, AM Janosik  
 24th Annual Harvard Forest Ecology Symposium March 20 2013  
 Microbial community dynamics in a long-term soil warming chronosequence  
 KM DeAngelis, LV Diepen, **RM Varney**, JR Blanchard, JR Melillo, S Frey  
 University of Massachusetts Microbiology Retreat March 2 2013  
 Digging Deep: Soil microbial carbon use in a warmer world  
 A Billings, **RM Varney**, G Pold, DR Burkhardt, B Surjawen, KM DeAngelis

## OTHER RESEARCH EXPERIENCE

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**Research Fellow** May 2012-August 2013  
 University of Massachusetts at Amherst Advisor: Prof. Kristen DeAngelis  
**Laboratory Technician** (Analytical Chemistry) December 2011-May 2012  
 Microtest Laboratories, Inc. Supervisor: Patrick Kenney, M.S.  
**Laboratory Assistant** August 2009-August 2011  
 University of California at Davis Advisor: Prof. Dina St. Clair  
**Undergraduate Research Assistant** October 2007-June 2009  
 University of California at Davis Advisor: Prof. Leslie Lyons

## OTHER WORKSHOPS ATTENDED

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- NSF Detecting Selection in Polar Organisms Workshop - prior to SICB, January 2018 and 2019.
- University of Alabama Research Software Initiative - Kickoff Workshop  
 September 28, 2018
- BITMaB2 (Benthic Invertebrate Taxonomy, Metagenomics, and Bioinformatics)  
 Harte Research Institute, Corpus Christi, Texas. January 16-19, 2018
- Genome Solver Workshop: Introducing molecular tools to undergraduates. NSF/Georgetown University, Anne Rosenwald. March 8-9, 2016
- Molecular Ecology and Genetics workshop prior to JMIH 2014, coordinated by Dovi Kacev  
 University of Tennessee, Chattanooga
- Introduction to Command Line(BASH) and Python (iPy notebook) by Software Carpentry, 2013.

## OTHER PROFESSIONAL DEVELOPMENT

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- Scientific Branding Workshop - led by Dr. Alexis Janosik. May 27, 2020.

- David Bauer Grant-Writing Workshop for Graduate Students - a nomination-based workshop led by David G. Bauer. August 25, 2018
- Women in Leadership - a conference at UWF addressing issues particular to women in leadership positions. February 13, 2015

## PROFESSIONAL AFFILIATIONS

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- Global Invertebrate Genomics Alliance (GIGA) from 2018
- Society of Integrated and Comparative Biology (SICB) (from 2015)
- Golden Key Honour Society (from 2011)
- AWIS (from 2013)
- ASIH (from 2013)
- Phi Beta Kappa Honour Society (from 2014)

## CERTIFICATIONS

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- SCUBA: Divemaster (2015), AAUS (current)
- CPR (Emergency First Responder, First Aid, AED, O2 Administrator)
- WFA (Wilderness First Aid) and epinephrine auto-injector training (American Heart Association and Code 3 Life Support Education), 2022