

MYA BREITBART

University of South Florida
College of Marine Science
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Education

University of California San Diego & San Diego State University	Cell and Molecular Biology	Ph.D. 2006
Florida Institute of Technology	Biology	B.S. 2000

Appointments

Full Professor at the University of South Florida	2016-present
Associate Professor at the University of South Florida	2012-2016
Assistant Professor at the University of South Florida	2006-2012

Awards

American Academy of Microbiology Fellow. 2019.
University of South Florida Outstanding Faculty Award. 2018.
American Association for the Advancement of Science (AAAS) Fellow. 2017.
Girls Incorporated of Pinellas STEM Woman of the Year. 2015.
Florida Trend Magazine's All Star. 2014.
University of South Florida Outstanding Faculty Award. 2014.
Popular Science Magazine's "Brilliant Ten" Young Investigators. 2013.
Honorable Mention, University of South Florida's Outstanding Graduate Mentor Award. 2013.
Kavli Frontiers Fellow. National Academy of Sciences. 2009 and 2010.
"Each One Teach One" Phenomenal Woman Award, University of South Florida Saint Petersburg. 2009.
Outstanding Research Achievement Award, University of South Florida. 2008.
Alfred P. Sloan Research Fellow. 2007.
Genome Technology Magazine's Young Investigator Award. 2006.
Achievement Rewards for College Scientists. 2005-2006.

Professional Activities

Co-chair of Keystone Symposium on the Global Virome in Health and Disease. 2019-2020.
CMS Safety Committee, 2020-present.
CMS Dean Search Committee, 2019-present.
Ad hoc USF Research Misconduct Committee. 2018-2019.
Tenure & Promotion Committee Member, Biology Department, USFSP, 2018.
Editorial Board Member, PeerJ. 2017-present.
International Society for Microbial Ecology International Board of Ambassadors. 2017-2020.

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University of South Florida Honors and Awards Council, 2017-2020.
American Society for Microbiology 2017 Officer Nominating Committee.
USF CIDER (Center for Infectious Disease Ecology Research) Advisory Board. 2016-present.
USF Academy for Teaching and Learning Excellence (ATLE) Pedagogy All-Day Workshop.
January 2016.
Editor for Aquatic Microbial Ecology. 2015-2020.
Session Chair, Gordon Conference on Animal-Microbe Symbiosis. June 2015.
Session Chair, American Society for Microbiology General Meeting. June 2015.
Research Advisory Committee, University of South Florida. July 2015-December 2017.
National Science Foundation Graduate Research Fellowship Program Panel. January 2015.
Scientific Advisory Board Member for International Society of Viruses of Microbes. 2015-2019.
Scientific Advisory Board Member for the American Society for Microbiology. 2014-present.
Chair of Division M (Bacteriophage) of the American Society for Microbiology. 2015-2016.
Selection Committee Member – Renate E. Bernstein Outstanding Publication Award. 2014.
Curator for the Aquatic Viruses Scoop.It Page. 2014-present.
Editorial Board Member for Scientific Reports (part of the Nature Publishing Group). 2014-2016.
Chair of the Circoviridae Subgroup of the International Committee on the Taxonomy of Viruses. 2014-present.
Member of the ICTV Bacterial & Archaeal Virus Taxonomy Consultative Group. 2014-present.
Chair-Elect of Division M (Bacteriophage) of the American Society for Microbiology. 2014.
External Thesis Review. August 2014. Rendy Ruvindy, The University of New South Wales School of Biotechnology and Biomolecular Sciences.
Councilor for the Florida Branch of the American Society for Microbiology. 2013-2015.
Co-founder for the Tampa Bay's Tiniest Biology Microbiology Group. 2013-present.
University of South Florida QEP Steering Committee, Global Citizen Project. 2013 – present.
NSF OCE Postdoctoral Research Fellowship Review Panel – April 2013.
Nominating Committee for the ARCS Tampa Bay Chapter 2013-2014
International Partner for MicroPolar Norway. 2013.
USF Incentivizing, Recognizing and Rewarding International Engagement Among Faculty Workgroup. 2012 – 2013.
Steering Committee for the 2013 Environmental Virology Workshop. 2012-2013.
Member of the CMS Curriculum Committee. 2012-2015.
USF Senate Research Council of Reviewers. 2012-present.
Elected Member of the Executive Committee of the International Committee on the Taxonomy of Viruses. 2011-2014. (Also member of the Anellovirus and Circoviridae Subgroups)
President for the Florida Branch of the American Society for Microbiology. 2011-2013.
Co-organizer of the 19th Evergreen International Phage Biology Meeting. 2011.
Presentation judge for the USF 9th Annual Undergraduate Research Symposium, 2011.
Organizing committee member for the National Academy of Science's Kavli Frontiers in Science Meeting. 2011.
Member of the USF Graduate School Recruitment Consortium. 2011-present.
Member of the USF Phytoplankton Ecologist Search Committee. 2011.

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Member of the CMS Honors and Awards Committee. 2010-present.
Mentor for the STREAMS (Supporting Talented and Remarkable Environmental and Marine Science Students) Scholarship Program. 2009-present.
Faculty Advisor to the CMS Postdoctoral Researcher Association. 2009-present.
Member of the USF College of Marine Science Dean Search Committee. 2009-2010.
Scientific Member of the USF/Mote Affiliation Committee. 2009-present.
Proposal Enhancement Program (PEP) Expert for the USF Research Council. 2009-present.
Co-organizer of the 18th Evergreen International Phage Biology Meeting. 2009.
Vice-President for the Florida Branch of the American Society for Microbiology. 2008-2010.
Member of initiating group for the Tampa Bay ARCS (Achievement Rewards for College Scientists) Foundation. 2007-present.
Website development and maintenance for USF College of Marine Science. 2007-2009.
Member of the USF University Laboratory and Field Safety Committee. 2007-2012.
Marine Science Advisory Committee (MSAC) Faculty Advisor. 2007-present. (MSAC was recognized with the USF 2008-2009 Outstanding Student Organization Award)
Member of Florida Aquarium's Conservation and Research Advisory Committee. 2007-present.
Member of the STREAMS (Supporting Talented and Remarkable Environmental and Marine Science Students) Scholarship Program Advisory Board. 2007 – present.
Chair of Graduate Student Recruitment Weekend, USF College of Marine Science. 2006-2014.
Faculty advisory committee for the CMS Graduate Student Symposium. 2008 - present.
Secretary for the Florida Branch of the American Society for Microbiology. 2006-2008.
Member of the USF Strategic Planning Committee. 2007.
Ad hoc reviewer for Trends in Microbiology, Limnology and Oceanography, Environmental Microbiology, Aquatic Microbial Ecology, Molecular Biology and Evolution, Reviews in Medical Virology, FEMS Microbiology Ecology, Journal of Virological Methods, Journal of General Virology, Marine Ecology Progress Series, ISME Journal, Applied and Environmental Microbiology, Research in Microbiology, Science, Journal of Virology, Clinical Microbiology and Infection, Diseases of Aquatic Organisms, Microbial Ecology, Water Research, Virology Journal, New Phytologist, PLoS One, Virology.
Ad hoc grant reviewer for National Science Foundation (Biotic Surveys and Inventories, Microbial Interactions and Processes, Biological Oceanography, Antarctic Programs, Geobiology, Assembling the Tree of Life, Science and Technology Centers), National Institutes of Health (National Institutes of General Medical Sciences – Minority Biomedical Research program), Austrian Research Council, US-Israel Binational Science Foundation, National Geographic Society, Marsden Fund (New Zealand), Research Foundation Flanders FWO (Netherlands).

Significant Outreach Activities

Coordinated a 10-week Marine Science program for Girls Incorporated of Pinellas, summer 2019.
Coordinated an Art & Science Event, 2019-2020.

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Keynote speaker, Bright House Networks “Bright Ideas STEM From Today’s Youth” Semi-finalist Competition. 1/2016.

Various activities with Girls Incorporated and Girl Scouts at Camp Wai Lani, reaching over 500 girls. Ongoing.

Invited panelist, USF 11th annual diversity summit. 3/14.

Spoonbill Bowl Volunteer Moderator. 2014, 2015.

FabFems Role Model. 2013-present.

Leadership Team Member for Florida Girls Collaborative Project. 2010-present.

Designed a fully functional Marine Science Laboratory for Girl Scout Camp Wai Lani. 2011.

Designed and ran a Girl Scout Marine Science Workshop for an Girl Scout Encampment at Camp Wai Lani (150 Girls ranging from ages 5-13). 2009.

Co-organizer of a Girl Scout Marine Science and Technology Workshop at the College of Marine Science. 2008. <http://www.marine.usf.edu/news/girlscouts.shtml>

Faculty mentor for the USF Oceanography Camp for Girls. 2007-2011.

Created bilingual educational videos about microbialites in our field site of Cuatro Cienegas, Mexico. 2007. http://www.desertfishes.org/cuatroc/literature/pdf/Breitbart_videos.php

Formal Courses Taught

Professional Development II (2-credit graduate-level professional development course; co-taught with Kristen Buck), Spring 2020.

Professional Development I (2-credit graduate-level professional development course; co-taught with Kristen Buck), Fall 2019.

Virology (3-credit graduate-level course; co-taught with Karyna Rosario), Fall 2018.

Professional Development II (2-credit graduate-level professional development course; co-taught with Kristen Buck), Spring 2018.

Microbes and Metals (2-credit graduate-level readings course; co-taught with Kristen Buck; OCE6934), Fall 2017.

Professional Development I (2-credit graduate-level professional development course; OCE6934), Fall 2017.

Professional Development I (2-credit graduate-level professional development course; OCE6934), Fall 2016.

Professional Development I (2-credit graduate-level professional development course; OCE6934), Fall 2015.

Molecular Microbiology Methods (2-credit graduate-level course covering modern methods in molecular microbiology). Spring 2015.

Professional Development II (2-credit graduate-level professional development course; OCE6934), Fall 2014.

Professional Development I (2-credit graduate-level professional development course; OCE6934), Fall 2014.

Micro-Macro Interactions (1 credit graduate-level readings course; OCE6934), Spring 2014.

Professional Development (2-credit graduate-level professional development course; OCE6934), Fall 2013.

Micro-Macro Interactions (1 credit graduate-level readings course; OCE6934), Spring 2013.

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Professional Development (2-credit graduate-level professional development course; OCE6934), Fall 2012.

Foundations of Biological and Fisheries Oceanography (2 credit graduate-level readings course (OCE6934). Co-instructor with Kendra Daly and Pam Hallock-Muller. Spring 2012.

Professional Development (2-credit graduate-level professional development course; OCE6934), Fall 2011.

Surviving Academia (2 credit graduate-level professional development course; OCE6934). Fall 2010.

Marine Molecular Microbiology Laboratory (Undergraduate research course; OCE4930), Fall 2010.

Biological Oceanography (3 credit graduate-level lecture and lab course; OCB6050; REF# 80585). Fall 2009.

Foundations of Biological and Fisheries Oceanography (2 credit graduate-level readings course (OCE6934). Co-instructor with Kendra Daly and Pam Hallock-Muller. Spring 2009.

Biological Oceanography (3 credit graduate-level lecture and lab course; OCB6050; REF# 80674). Co-instructor with David Mann. Fall 2008.

Marine Molecular Methods (3 credit graduate-level lecture and lab course; OCE6934; REF# 12131). Spring 2007.

Metagenomic Bioinformatics (2 credit graduate-level lecture and lab course; OCE6934; REF# 54522). Summer 2007.

Micro-Macro Interactions (1 credit graduate-level readings course; OCE6934; REF# 89230). Fall 2007.

Biological Oceanography (3 credit graduate-level lecture and lab course; OCB6050; REF# 80674). Co-instructor with David Mann. Fall 2007.

Current Graduate Students

Kema Malki – Ph.D. student (Fall 2016 – present)

Natalie Sawaya – Ph.D. student (Fall 2015 – present)

Christina Chadwick – M.S. student (Fall 2019 – present)

Current Postdoctoral Researchers

Erin Symonds – 2017-2021.

Undergraduate Honors Thesis Advisor

Courtney Clark – USF Tampa. 2014.

Marco Padilla-Rodriguez – USF Saint Petersburg. 2012.

Former Graduate Students

Chelsea Bonnain – M.S. student, 2014-2019. M.S. received 2019. Co-advised with Kristen Buck. North FL Area Representative for LABRepCo, LLC.

Natalia Lopez-Figueroa – Ph.D. student, 2017-2020. Transferred to Pam Hallock-Muller's lab in January 2020.

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- Erin Symonds – M.S. student, 2006 – 2008 and Ph.D. student 2011-2016. M.S. received 2008, PhD received 2016. Currently a postdoctoral researcher in my lab.
- Terry Fei Fan Ng – Ph.D. student, 2006 – 2010. Ph.D. received Fall 2010. Completed a postdoc at the Blood Systems Research Institute in San Francisco and is currently an Investigator at the Center for Disease Control in Atlanta and an Adjunct Assistant Professor at the University of Georgia.
- Karyna Rosario – Ph.D. student, 2006 – 2010. Ph.D. received Fall 2010. Currently a Research Associated in my laboratory.
- Anthony Nitti – M.S. student, 2007 – 2010. M.S. received Fall 2010. Co-advised by David Hollander. Currently employed at NovoBiotic Pharmaceuticals in Massachusetts.
- Camille Daniels – Ph.D. student, 2006-2011. Ph.D. received Fall 2011.
- Darren Dunlap – M.S. student, 2009 – 2012. M.S. received Spring 2012. Currently a researcher at the United States Geological Survey in Reston, VA.
- Sheila O’Dea – M.S. student, 2009 – 2012. M.S. received Summer 2012. Currently a researcher at the Florida Fish and Wildlife Commission in St Petersburg, FL.
- Dawn Goldsmith – Ph.D. student, 2007-2014. Currently employed at the USGS and as an adjunct professor at Saint Petersburg College.
- Max Hopkins – M.S. student, 2011-2014. M.S. received Summer 2014.
- Stephanie Lawler- M.S. student, 2013 – 2016. M.S. received Spring 2016. Co-advised by Christina Kellogg (USGS). Currently working at Keep Pinellas Beautiful..
- Monica Mion Cook – Ph.D. student, 2007 – 2015. Ph.D. received Spring 2015. Co-advised by Ted Van Vleet.
- Ryan Schenk – Ph.D. student, 2013 – 2015. Ryan did not receive his degree.
- Elizabeth Fahsbender – Ph.D.. student, 2012-2017. Currently a postdoc at the Blood Systems Research Institute in San Francisco, CA.
- Brittany Leigh – Ph.D. student, 2012-2017. Co-advised with Larry Dishaw (USF Health). Currently a postdoc at Vanderbilt, TN.
- Alexandria Creasy – M.S. student, 2015-2018. Co-advised with Larry Dishaw (USF Health). Currently working as a lab manager at USF.
- Amanda Sosnowski – M.S. student, 2015-2017. Co-advised with Heather Judkins (USFSP). Currently attending film school.
- Makenzie Burrows – M.S. student, 2017-2019. Currently outreach coordinator in my lab.

Former Postdoctoral Researchers

- Anni Djurhuus, 2015-2019. Currently an Assistant Professor at the University of the Faroe Islands.
- Y Nguyen, 2018-2019. Currently at the Food & Drug Administration.
- Kimberly Pause, 2007 – 2010. Currently the Direction of STEM Initiatives and an Assistant Professor of Biology at Stevenson University, MD.
- Bhakti Dwivedi, 2009 – 2012. Currently a Senior Research Scientist at The Winship Cancer Institute of Emory University, GA.
- Karyna Rosario, 2011 – 2013. Currently an independent Research Associate in my lab.
- Anna Szekely, 2013-2015. Marie Curie Fellow.

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Dawn Goldsmith. 2015-2016. Currently employed at the USGS and as an adjunct professor at Saint Petersburg College.

Noemi Van Bogaert. 2017-2018. Funded by a grant from the Belgian American Education Foundation.

Undergraduate Students and Interns

Emma Willett – High School Intern (St. Petersburg High School; Summer 2019)

Sophie Goldsmith – High School Intern (Palm Harbor University High School; Summer 2019)

Paige Boleman – Undergraduate (USFSP; Summer 2019)

Shelby Mahank – Undergraduate and Postgraduate Intern (USFSP; Spring 2019-present)

Grace Koziol – Undergraduate (Eckerd College; Summer 2017, 2018, 2019)

Eva-Maria Bonnelycke – Undergraduate (Eckerd College; Summer 2017)

Kaitlin Mettel – Undergraduate (USF Tampa; Summer 2017)

Mason Kerr – Undergraduate (SPC; Summer 2017)

Makenzie Burrows – Undergraduate (USFSP; Fall 2015-Spring 2017)

Melissa Lunan-Simpson – Undergraduate (USFSP; Fall 2016)

Travis Thorn – Undergraduate (USFSP; Fall 2015-2016)

Sidney Fulford – Undergraduate (Eckerd College; Summer 2014-2016)

Anna Walters – St Petersburg High School Intern (Summer 2015-2016)

Lisbet Finseth – Postgraduate Intern (2014-2015)

Christian Marr – Postgraduate Intern (Spring-Summer 2014)

Dylan Kahn – Postgraduate Intern (Spring-Summer 2014)

Carina Graham – Undergraduate (Eckerd College; Summer 2014)

Bethany Levenson – Undergraduate (USF SP; Spring 2013 – Spring 2014)

Jendryx Fernandez – Undergraduate (Hillsborough Community College; Spring 2013)

Marco Padilla-Rodriguez – Undergraduate (USF SP; Spring 2011 – Summer 2013)

Bingjie Xue – Undergraduate (Virginia Commonwealth University; Summer 2011)

Lauren Van Woudenberg - Undergraduate (Eckerd College; Summer 2011)

Allison Cohen – Undergraduate (Columbia University; Summer 2011 and Summer 2012)

Laura Munoz – Undergraduate (University of South Florida; Spring 2011 – Summer 2011)

Kristen Viola – Undergraduate (University of South Florida; Spring 2011)

Rachael Trent – Undergraduate (University of South Florida; Spring 2011)

Elizabeth Fahsbender – Undergraduate (University of South Florida; Fall 2010 – Summer 2012)

Kelly Vasbinder – High School Student (Summer 2010)

Giuseppe Crosti – Undergraduate (Duke University; Summer 2010)

Elizabeth Ranalli – Undergraduate (REU summer intern with Mote Marine Lab from Sonoma State University, CA; Summer 2009)

Amy Zeifman – Undergraduate (Eckerd College; Summer 2008)

Elise Bixby – Undergraduate (Washington University at Saint Louis; Summer 2007 and 2008)

Christopher Chung – Undergraduate (Duke University; Summer 2007)

Maria Luisa Rubio Teso – Intern (Spring and Summer 2007)

Clarke Jacobson – Middle-school Science Fair Student (Fall 2008)

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Visiting Scientists

Haris Paliogiannis – MS student from the University of Brussels. Summer 2017.

Inmaculada Garcia Heredia – PhD student from the University Miguel Hernandez, Spain. Summer 2010.

Sanela Svraka – PhD student from the Netherlands National Institute for Public Health and the Environment. Summer 2009.

Shankar Alavandi – Visiting senior scientist from the Central Institute of Brackishwater Aquaculture in India – Spring 2009.

Student Committees (*indicates major advisor) –

Outside Chair: Brian Badgely (USF Tampa, Biology), Shannon McQuaig (USF Tampa, Biology)
Ph.D.: Kwasi Barnes, Alexandria Creasy*, Camille Daniels*, Kristina Deak, Elizabeth Fahsbender*, Terry Fei Fan Ng*, Julia Galkiewicz, Javier Gallard (Integrative Biology), Dawn Goldsmith*, Adriana Gonzalez (Integrative Biology), Meghan Gordon (CMMB), Lara Henry, Adrienne Hollister, Erica Hudson, Abdiel Laureano, Brittany Leigh*, Juliana Leonard (Integrative Biology), Natalia Lopez-Figueroa*, Kema Malki*, Monica Mion Cook*, Jennifer Mobberley, Christin Murphy, Karyna Rosario*, Benjamin Ross, Natalie Sawaya*, Erin Symonds*, Robert Ulrich, Matthew Verbyla (USF Tampa, Engineering), Brian Zielinski.
M.S.: Chelsea Bonnain*, Makenzie Burrows*, Jennifer Delaney, Darren Dunlap*, Adrienne George, Aubrey Hetzler (USFSP), Max Hopkins*, Makenna Martin, Anthony Nitti*, Sheila O’Dea*, Sarah Schmid, Amanda Sosnowski*, Adam Spear, Erin Symonds*, Elizabeth Young.
Also committee member for Patricia Parrilla at CIBNAR, Mexico.

Funded Research Grants

National Science Foundation – EAGER. “Iron-Virus Interactions in the Ocean”. Lead PI is Kristen Buck, I am a co-PI. Total award = \$299,295. 02/01/17 – 01/31/20.

National Science Foundation – Coastal SEES. “Coastal SEES Collaborative Research: Integration of Human Behavior and Perception into a Risk-based Microbial Water Quality Management Approach”. I am the lead PI, Valerie Harwood (USF Integrative Biology) is a co-PI. Total award = \$999,995. 09/15/16 – 09/14/21.

Florida Institute of Oceanography, FL Centers of Excellence Research Grants Program. “Spawning Habitat and Early-Life Linkages to Fisheries (SHELF)”. Lead PI: Ernst Peebles, I am a co-PI. Total award = \$1,637,200 (my portion ~\$300,000). 09/01/16 – 08/31/21.

National Science Foundation – Division of Environmental Biology. “Deciphering the Ecology of Aquatic Single-Stranded DNA Phages (*Microviridae/Gokushovirinae*)”. I am the sole PI on this proposal. Total award = \$463,714. 07/01/16 – 06/30/20.

U.S.-Israel Binational Science Foundation. “Quantifying the Recently Discovered, Ubiquitous ssDNA Phage Group and Identifying their Hosts” I am the lead PI, Debbie Lindell (Technion, Israel) is the co-PI. Total amount funded: \$180,000, my portion of the award: \$116,847. 09/01/15 – 08/31/19. (Average annual funding \$45,000).

Florida Institute of Oceanography: Florida Centers of Excellence Research Grants Program. “Egg and Larval Barcoding for Gulf DEPM Stock Assessments”. Lead PI is Ernst

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- Peebles, I am a co-PI. Total amount funded: \$129,265; my portion of the award: \$76,307. 09/01/15 – 08/31/17.
- NASA Grant NNX14AP62A, funded under the National Ocean Partnership Program (NOPP RFP NOAA-NOAA-NOS-IOOS-2014-2003803) in partnership between NOAA, BOEM, and NASA. “National Marine Sanctuaries as Sentinel Sites for a Demonstration Marine Biodiversity Observation Network (MBON)”. 08/01/14-07/31/20. I am a co-PI on a large proposal with Dr. Frank Muller-Karger as lead PI. My funded portion is \$190,987 in Year 1, with anticipated total funding over 5 years of \$912,314.
- National Science Foundation – Integrative Organismal Systems. “Role of phages in structuring bacterial communities: *Ciona intestinalis* as a model system”. Larry Dishaw is lead PI, I am a co-PI. Total award: \$440,300; my portion: \$74,071.
- National Science Foundation: Assembling the Tree of Life: “REU Supplement Request to Collaborative Research: ATOL: ACCESS DNA viruses: A Comprehensive survey of Circular Eukaryotic Single-Stranded DNA viruses in Invertebrates and Fungi”. I am the sole PI. Total amount funded: \$6000. 05/01/16 – 04/30/17.
- National Science Foundation – Assembling the Tree of Life. “Collaborative Research: ATOL: ACCESS DNA viruses: A Comprehensive survey of Circular Eukaryotic Single-Stranded DNA viruses in Invertebrates and Fungi” 10/15/12 – 10/14/17. \$995,371; co-PI is Karyna Rosario.
- University of South Florida Internal Awards Program – Proposal Enhancement Grant. “Exploring the diversity and ecology of marine single-stranded DNA phages” 11/01/11 – 10/31/12. \$24,913.
- University of South Florida – College of Marine Science Interdisciplinary Research Grant Program. “Development of a Serological Assay for the Detection of Sea Lion Anellovirus (ZcAV)” 6/1/10 – 5/31/12. \$50,000; co-PI with Larry Dishaw.
- National Science Foundation – EAGER. “Discovery of Viruses Infecting Marine Copepoda” 10/01/10 – 09/30/12. \$298,528.
- National Science Foundation – Systematic Biology and Biodiversity Inventories. “Collaborative Research: Vector-enabled discovery: Exploiting whiteflies to investigate the diversity, evolution, and biogeography of begomoviruses” 09/01/10 – 08/31/13. \$322,502.
- Mote Marine Laboratory – Protect Our Reefs Grant. “Spatial Variability in Coral-Associated Bacteria: Implications for Coral Restoration” 05/01/09 – 04/30/10. \$30,827.
- National Science Foundation – Advances in Bioinformatics. “Collaborative Research: PHANTOME: PHage ANnotation TOols and MEthods” 04/01/09 – 03/31/12. \$460,142.
- Department of Energy – Genomes to Life. “Development of Proteogenomic Approaches to Analyze the Role of Virus-Microbe Interactions in Shaping Natural Microbial Communities” 10/01/07 – 09/30/10. \$1,703,000 total; co-PI with Drs. Jillian Banfield and Nathan Verberkmoes; my portion of the award is \$401,259.
- National Science Foundation – Microbial Interactions and Processes. “Abundance, Dynamics, and Diversity of Viruses in the Northwestern Sargasso Sea”. 09/15/07 – 09/14/10. \$474,929.
- Alfred P. Sloan Foundation Research Fellowship. 10/01/07 – 9/30/09. \$45,000.

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- Florida Sea Turtle Grants Program. "Shotgun Sequencing of Viruses Associated with Sea Turtle Fibropapillomatosis". 05/01/08 - 04/30/09. \$29,867.
- American Association of University Women - Community Action Grant. "Girl Scouts Marine Science and Technology Workshop". 07/01/08 - 06/31/10. \$5,120.
- Florida Institute of Oceanography. 5 days of shiptime to Dry Tortugas, Florida Keys. 5/27/08 – 6/2/08.
- National Geographic Society. Impact of human activity on microbes and viruses associated with living stromatolites in Cuatrocieneegas, Mexico. 06/01/07 – 06/01/08. \$19,973.
- Project AWARE Foundation. "The Microbiology of Coral Restoration". 3/01/07 – 9/01/07. \$3,500.
- Environmental Protection Agency: Region 4 Special Studies. "Application of historic data sets and bioindicators to assess status and ecological function of upper keys patch reefs". 1/01/07 - 12/31/07. \$ 49,989. co-PI with Dr. Pam Hallock-Muller; my portion of the award is approximately \$10,000.
- Environmental Protection Agency: Region 4 Special Studies. "Diversity and Distribution of Pathogenic Viruses in the Florida Keys". 10/1/06 – 9/30/07. \$25,000.
- University of South Florida: Internal New Investigator Award. "Diversity and Dynamics of Viruses Associated with Stromatolites in Cuatrociengas, Mexico". 5/01/06 – 4/30/07. \$10,000.

Peer-Reviewed Publications (underline indicates my students or post-docs)

(127 published journal articles and 2 book chapters, 15626 citations as of 2/18/20, H-index 58, Google Scholar)

- Hollister, AP, M Kerr, K Malki, E Muhlbach, M Robert, CL Tilney, **M Breitbart**, KA Hubbard, KN Buck (in press). Regeneration of macronutrients and trace metals during phytoplankton decay: an experimental study. *Limnology and Oceanography*. 10.1002/lno.11429.
- Timm, LE, HD Bracken-Grissom, A Sosnowski, **M Breitbart**, M Vecchione, H Judkins (2020). Population genomics of three deep-sea cephalopod species between the Gulf of Mexico and northwestern Atlantic Ocean reveals connectivity. *Deep Sea Research*. doi: 10.1016/j.dsr.2020.103222.
- Djurhuus, A, CJ Closek, RP Kelly, KJ Pitz, RP Michisaki, HA Starks, KR Walz, EA Andruszkiewicz, E Olesin, K Hubbard, E Montes, D Otis, FE Muller-Karger, FP Chavez, AB Boehm, **M Breitbart** (2020). Environmental DNA reveals seasonal shifts and potential interactions in a marine community. *Nature Communications*. 11:254.
- Rosario, K, KA Mettel, AM Greco, **M Breitbart** (2019). Prevalence of a vertically transmitted single-stranded DNA virus in spinybacked orbweavers (*Gasteracantha cancriformis*) from Florida, USA. *Journal of General Virology*. doi: 10.1099/jgv.0.001293.
- Symonds, EM, K Rosario, **M Breitbart** (2019). Pepper mild mottle virus: Agricultural menace turned effective tool for microbial water quality monitoring and assessing (waste)water treatment technologies. *PLOS Pathogens*. 15: e1007639.

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- Zhao, L, K Rosario, **M Breitbart**, S Duffy (2019). Eukaryotic Circular Rep-Encoding Single-Stranded DNA (CRESS DNA) viruses: ubiquitous viruses with small genomes and a diverse host range. *Advances in Virus Research*. 103: 71-133.
- Roux, S, EM Adriaenssens, BE Dutilh, EV Koonin, AM Kropinski, M Krupovic, JH Kuhn, R Lavigne, JR Brister, A Varsani, C Amid, RK Aziz, SR Bordenstein, P Bork, **M Breitbart**, GR Cochrane, RA Daly, C Desnues, MB Duhaim, JB Emerson, F Enault, JA Fuhrman, P Hingamp, P Hugenholtz, BL Hurwitz, NN Ivanova, JM Labonte, RR Malmstrom, M Martinez-Garcia, I Mizrachi, H Ogata, D Paez-Espino, M-A Petit, C Putonti, T Rattei, A Reyes, F Rodriguez-Valera, K Rosario, L Schrim, F Schulz, GF Steward, MB Sullivan, S Sunagawa, CA Suttle, B Temperton, SG Tringe, R Vega Thurber, NS Webster, KL Whiteson, SW Wilhelm, KE Wommack, T Woyke, K Wrighton, P Yilmaz, T Yoshida, MJ Young, N Yutin, L Zeigler Allen, NC Kyrpides, EA Eloe-Fadrosh (2019). Minimum Information about Uncultivated Virus Genomes (MIUViG): a community consensus on standards and best practices for describing genome sequences from uncultivated viruses. *Nature Biotechnology*. 37: 29-37.
- Sawaya, NA, CJ Closek, M Hepner, E Olesin, L Visser, C Kelble, K Hubbard, **M Breitbart**, A Djurhuus (2019). Assessing eukaryotic biodiversity in the Florida Keys National Marine Sanctuary through environmental DNA metabarcoding. *Ecology and Evolution*. 9: 1029-1040.
- Van Bogaert, N, K Rosario, B Furman, M Hall, A Greco, **M Breitbart** (2019). Discovery of a novel potexvirus in the seagrass *Thalassia testudinum* from Tampa Bay, Florida. *Limnology and Oceanography Letters*. 4:1-8.
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- Breitbart, M**, B Felts, S Kelley, JM Mahaffy, J Nulton, P Salamon, F Rohwer (2004) Diversity and population structure of a nearshore marine sediment viral community. *Proceedings of the Royal Society B*. 271: 565-574.
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Presentations in the Past 5 Years

(underline indicates my graduate students, undergraduates, or post-docs)

- Mahank, S., N.A. Sawaya, N. Baran, D. Lindell, **M. Breitbart**. “Perfecting the Polony Method: A way of quantifying single-stranded DNA (ssDNA) bacteriophage (*Gokushovirinae*) to better understand their ecological roles”. Oral presentation by S. Mahank. Annual Meeting of the Florida Branch of the American Society for Microbiology. Clearwater, Florida. 10/19.
- Boleman, P., Y. Nguyen, A. Greco, **M. Breitbart**. “Isolation and complete genome sequencing of a novel marine phage infecting *Vibrio natriegens*”. Poster presentation by P. Boleman. Annual Meeting of the Florida Branch of the American Society for Microbiology. Clearwater, Florida. 10/19.
- Willett, E., S. Goldsmith, K. Rosario, A.M. Greco, **M. Breitbart**. “Comparison of polyethylene glycol and iron chloride precipitation for concentrating single- and double-stranded DNA viruses from environmental waters”. Poster presentation by E. Willett and S. Goldsmith. Annual Meeting of the Florida Branch of the American Society for Microbiology. Clearwater, Florida. 10/19.
- Koziol, G., K. Malki, A.M. Greco, B.A. Fane, M.O. Martin, **M. Breitbart**. “Complete genome sequences of vB_BdbM-Alien and vB_BdbM-Predator: dwarf myoviruses infecting *Bdellovibrio bacteriovorus*”. Poster presentation by G. Koziol. Annual Meeting of the Florida Branch of the American Society for Microbiology. Clearwater, Florida. 10/19.
- Symonds, E.M., P.N. Rivera, G. Ulmer, A.F. González., J. Gallard, M. Brown, B. Mull, J.O. Lukasik, D. Mora A., V.J. Harwood, **M. Breitbart**, M.R. Cairns. “The MERA Investigation: A transdisciplinary approach to tropical beach management”. Poster presentation by E.M. Symonds. 20th International Symposium on Health Related Water Microbiology. Vienna, Austria. 9/19.

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- Lopez-Figueroa, N.B., K. Rosario, H. Paliogiannis, N. Van Bogaert, M. Kerr, M. Breitbart. “Exploring viral diversity in submerged aquatic vegetation in Florida’s springs”. Oral presentation by N. Lopez-Figueroa. Ecological Society of America Annual Meeting. Louisville, KY. 8/19.
- Malki, K., K. Rosario, N. Sawaya, M. Tisza, A. Szekely, M. Breitbart. “Exploring the viral and microbial communities of Florida’s freshwater springs”. Oral presentation by K. Malki. 23rd Biennial Evergreen International Phage Meeting. Olympia, WA. 8/19.
- Sawaya, N.A., N. Baran, S. Mahank, D. Lindell, M. Breitbart. “Quantification and diversity of a ubiquitous ssDNA phage group (*Gokushovirinae*) in the Red Sea”. Poster presentation by N.A. Sawaya. 23rd Biennial Evergreen International Phage Meeting. Olympia, WA. 8/19.
- Rosario, K., K.A. Mettel, A.M. Greco, M. Breitbart. “Prevalence of a vertically transmitted single-stranded DNA virus in spinybacked orbweavers (*Gasteracantha cancriformis*) from Florida, USA”. Poster presentation by K. Rosario. Gordon Conference on Animal-Microbe Symbioses. West Dover, VT. 6/19.
- Rosario, K., N. Fierer, S. Miller, J. Luongo, M. Breitbart. “Metagenomic analysis of DNA and RNA viruses in indoor air “. Invited oral presentation by K. Rosario. Viruses in the Built Environment (VIBE) workshop. Virginia Tech, VA. 5/19.
- Breitbart, M.** “The Marvels of Marine Phage”. Invited oral presentation. 5th Annual Florida Regional SEA PHAGES Symposium. Tampa, Florida. 4/19.
- Mahank, S., N. Sawaya, N. Baran, D. Lindell, M. Breitbart. “Perfecting the polony method to quantify marine viruses”. Poster presentation by S. Mahank. USFSP 16th Annual Student Research Symposium. St Petersburg, Florida. 4/19.
- Sawaya, N.A., N. Baran, M. Carlson, D. Lindell, M. Breitbart. "Optimization of the polony technique for quantification of ssDNA gokushoviruses in the Red Sea". Poster presentation by N. Sawaya. USF Genomics Symposium. Tampa, Florida. 3/19.
- López Figueroa, N., K. Rosario, N. Van Bogaert, M. Kerr, H. Paliogiannis, M. Breitbart. "Exploring viral diversity in submerged aquatic vegetation in Florida's springs". Poster presentation by N. Lopez Figueroa. USF Genomics Symposium. Tampa, Florida. 3/19.
- Burrows, M., J. Browning, M. Armenteros, S. Murawski, M. Breitbart. “DNA barcoding of fish eggs collected off northwest Cuba and across the Florida straits during May 2017”. Oral presentation by M. Burrows. MarCuba. Havana, Cuba. 10/18.
- Breitbart, M.** “Short stories in marine viral ecology”. Invited plenary speaker. American Society for Virology Annual Meeting. College Park, Maryland. 7/18.
- Breitbart, M.** “Welcome to the jungle: Wild viruses bend the bars of taxonomic cages”. Invited symposium speaker. American Society for Virology Annual Meeting. College Park, Maryland. 7/18.
- Malki, K., K. Rosario, N. Sawaya, A. Djurhuus, A. Szekely, M. Breitbart. "Exploring the viral and bacterial communities in Florida’s freshwater springs". Oral presentation by K. Malki. Aquatic Virus Workshop 9. Lincoln, Nebraska. 6/18.
- Djurhuus, A., B. Leigh, M. Kavanaugh, M. Breitbart. “Biogeography of viral communities trace seascapes with time". Oral presentation by A. Djurhuus. Aquatic Virus Workshop 9. Lincoln, Nebraska. 6/18.

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- Sawaya, N.A., N. Baran, M. Carlson, D. Lindell, **M. Breitbart**. "Optimization of the polony technique for quantification of ssDNA gokushoviruses in the Red Sea". Poster presentation by N. Sawaya. Aquatic Virus Workshop 9. Lincoln, Nebraska. 6/18.
- López Figueroa, N., K. Rosario, N. Van Bogaert, M. Kerr, H. Paliogiannis, **M. Breitbart**. "Exploring viral diversity in submerged aquatic vegetation in Florida's springs". Poster presentation by N. Lopez Figueroa. Aquatic Virus Workshop 9. Lincoln, Nebraska. 6/18.
- Gallard-Gongora, J., A. Gonzalez-Fernandez, D. Mora-Alvarado, P. Rivera-Navarro, J. Lukasik, B. Mull, J. Peraud, E.M. Symonds, G. Ulmer, M. Brown, **M. Breitbart**, M. Cairns, and V.J. Harwood. "Fecal indicator and pathogen analysis to inform an interdisciplinary study of water quality and human health risk in Costa Rica". Water Microbiology Conference. Chapel Hill, North Carolina, USA. Oral presentation by J. Gallard-Gongora. 5/18.
- Van Bogaert, N., K. Rosario, B.T. Furman, M.O. Hall, A.M. Greco, **M. Breitbart**. "Discovery, prevalence and biogeographical distribution of viruses in the seagrass *Thalassia testudinum*". Poster presentation by N. Van Bogaert. 2018 Ocean Sciences Meeting. Portland, Oregon. 2/18.
- Djurhuus, A., K. Pitz, N.A. Sawaya, J. Rojas-Marquez, B. Michaud, E. Montes, F. Muller-Karger, **M. Breitbart**. "Evaluation of marine zooplankton community structure through environmental DNA metabarcoding". Poster presentation by A. Djurhuus. 2018 Ocean Sciences Meeting. Portland, Oregon. 2/18.
- Burrows, M., J. Browning, E. Peebles, **M. Breitbart**. "Fish egg DNA barcoding to support Gulf reef-fish stock assessments". Oral presentation by M. Burrows. 2018 USF College of Marine Science Graduate Student Symposium. Saint Petersburg, Florida. 1/18.
- Kerr, M., K. Rosario, **M. Breitbart**. "Discovery of single-stranded DNA viruses in fungus-farming termites". Oral presentation by M. Kerr. The 103rd Annual Southeastern Branch American Society for Microbiology Meeting. Saint Petersburg, Florida. 11/17.
- Mettel, K., K. Rosario, C. Baker, **M. Breitbart**. "Discovery and prevalence of single-stranded DNA viruses associated with spinybacked orbweavers (*Gasteracantha cancriformis*) from Florida, USA. The 103rd Annual Southeastern Branch American Society for Microbiology Meeting. Saint Petersburg, Florida. 11/17.
- Rosario, K., N. Fierer, S. Miller, J. Luongo, **M. Breitbart**. "Diversity of viruses circulating in indoor air as assessed via metagenomic sequencing". The 103rd Annual Southeastern Branch American Society for Microbiology Meeting. Saint Petersburg, Florida. 11/17.
- Koziol, G., K. Malki, **M. Breitbart**. "Culturing and identifying bacteria from Florida's freshwater springs". Florida Branch Meeting of the American Society for Microbiology Meeting. Saint Petersburg, FL. 10/17.
- Sawaya, N., A. Djurhuus, C. Closek, M. Hepner, E. Olesin, L. Visser, C. Kelble, K. Hubbard, **M. Breitbart**. "Assessing biodiversity in the Florida Keys National Marine Sanctuary through environmental DNA metabarcoding". International Council for the Exploration of the Sea (ICES) Conference. Fort Lauderdale, FL. 10/17.
- Burrows, M., J.S. Browning, **M. Breitbart**, E.B. Peebles. "Egg and Larval DNA Barcoding to Support Gulf Reef-Fish Stock Assessments". Oral presentation by M. Burrows. 147th Annual Meeting of the American Fisheries Society. Tampa, Florida. 8/17.

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- Malki, K., M. Martin, B. Fane, **M. Breitbart**. “Characterization of *Bdellovibrio bacteriovorus* phage”. Poster presentation by K. Malki. 22nd Biennial Evergreen International Phage Meeting. Olympia, WA. 8/17.
- Leigh, B.A., Z. Graham, A. Liberti, **M. Breitbart**, L.J. Dishaw. “Unraveling a role for prophages in shaping gut microbiomes”. Oral presentation by B. Leigh. 22nd Biennial Evergreen International Phage Meeting. Olympia, WA. 8/17.
- Bonnain, C., S. Caprara, K.N. Buck, **M. Breitbart**. “Testing the ferrojan horse hypothesis: Iron-virus interactions in the oceans”. Oral presentation by C. Bonnain. 22nd Biennial Evergreen International Phage Meeting. Olympia, WA. 8/17.
- Leigh, B.A., Z. Graham, A. Liberti, J.P. Cannon, **M. Breitbart**, L.J. Dishaw. “*Ciona intestinalis*: a model system for dissecting the roles of prophages in modulating host-associated microbial communities”. Animal-Microbe Symbiosis Gordon Research Conference. West Dover, VT. 6/17.
- Symonds, E.M., S. Young, M.E. Verbyla, S.M. McQuaig-Ulrich, E. Ross, J.A. Jimenez, V.J. Harwood, and **M. Breitbart**. “Fecal Pollution and Microbial Source Tracking in Shellfish Harvesting Waters in the Gulf of Nicoya, Costa Rica”. Oral presentation by E. Symonds. Water Microbiology Conference, Chapel Hill, NC.
- Breitbart, M.** “Virus hunting in the age of metagenomics”. Invited plenary speaker, University of Tampa Undergraduate Research Symposium. Tampa, FL. 4/17.
- Breitbart, M.** “Small but significant: single-stranded DNA viruses in the environment”. Oral presentation. Ninth workshop on Virus Evolution. State College, PA. 3/17.
- Rosario, K. and **Breitbart, M.** “Exploring the diversity of circular single-stranded DNA viruses in insects”. Oral presentation by K. Rosario. Ninth workshop on Virus Evolution. State College, PA. 3/17.
- Djurhuus, A., B. Leigh, M. Kavanaugh, **M. Breitbart**. “Seascape-informed analysis of viral communities on the west Florida shelf” Poster presentation by A. Djurhuus. ASLO Ocean Sciences Meeting. Honolulu, HI. 2/17.
- Sosnowski, A., **M. Breitbart**, H. Judkins, M. Vecchione. “Genetic identification and population characteristics of deep-sea cephalopod species in the Gulf of Mexico and northwestern Atlantic Ocean. Poster presentation by A. Sosnowski. GOMOSSES Conference. New Orleans, LA. 2/17.
- Burrows, M., E. Fahsbender, **M. Breitbart**. “Genomic variation of the chelonid fibropapillomatosis-associated herpesvirus”. Oral presentation by M. Burrows. Florida Branch Meeting of the American Society for Microbiology Meeting. Miami, FL. 10/16.
- Fahsbender, E., K. Rosario, **M. Breitbart**. “The use of vector-enabled metagenomics (VEM) for surveillance of animal and plant viruses”. Oral presentation by E. Fahsbender. Florida Branch Meeting of the American Society for Microbiology Meeting. Miami, FL. 10/16.
- Leigh, B., Z. Graham, A. Creasy, A. Liberti, J. P. Cannon, G. W. Litman, **M. Breitbart**, and L. J. Dishaw. Exploring phage roles in the gut of a marine protochordate, *Ciona intestinalis*. Oral presentation by B. Leigh. American Society of Microbiology Conference on Beneficial Microbes. Seattle, WA. 9/16.
- Creasy, A. B. Leigh, A. Liberti, Z. Graham, J. Cannon, G. Litman, **M. Breitbart**, L.J. Dishaw. “Dissecting ecological principles of gut bacteria in *Ciona intestinalis*”. Poster

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- presentation by A. Creasy. American Society of Microbiology Conference on Beneficial Microbes. Seattle, WA. 9/16.
- Verbyla, M.E. E.M. Symonds, R.C. Kafle, M.R. Cairns, M. Iriarte, A. Mercado, O. Coronado, **M. Breitbart**, C. Ledo, and J.R. Mihelcic. Managing microbial risks from indirect wastewater reuse for irrigation using riverbank filtration. Oral presentation by E. Symonds. Aerobic Spores and Other Microbial Indicators to Determine Ground Water Under the Direct Influence of Surface Water (GWUDI), Riverside, California, USA. 2016.
- Leigh, B., Z. Graham, A. Creasy, A. Liberti, J. P. Cannon, G. W. Litman, **M. Breitbart**, and L. J. Dishaw. Exploring prophage roles at the onset of gut colonization in a marine protochordate, *Ciona intestinalis*. Oral presentation by B. Leigh. 8th Aquatic Virus Workshop. Plymouth, UK. 7/16.
- Bonnain, C., K.N. Buck, **M. Breitbart**. “The ferrojan horse hypothesis: iron-virus interactions in the ocean”. Poster presentation by C. Bonnain. 8th Aquatic Virus Workshop. Plymouth, UK. 7/16.
- Breitbart, M.** “Short stories in marine viral ecology”. Invited oral presentation. 8th Aquatic Virus Workshop. Plymouth, UK. 7/16.
- Breitbart, M.** “Virus hunting in the age of metagenomics”. Invited oral presentation. University of Liverpool. 7/16.
- Breitbart, M.** “Marine viral diversity and spatiotemporal variability”. Invited oral presentation. Viruses of Microbes. Liverpool, UK. 7/16.
- Leigh, B., Z. Graham, A. Creasy, A. Liberti, J. P. Cannon, G. W. Litman, **M. Breitbart**, and L. J. Dishaw. “*Ciona intestinalis*: a new model system for dissecting the roles of phages in modulating host-associated microbial communities”. Oral presentation by B. Leigh. Viruses of Microbes. Liverpool, UK. 7/16.
- Bonnain, C., K.N. Buck, **M. Breitbart**. “The ferrojan horse hypothesis: iron-virus interactions in the ocean”. Poster presentation by C. Bonnain. Viruses of Microbes. Liverpool, UK. 7/16.
- Fahsbender, E.M., P. Jernigan, B. Stacy, J. Keene, L. Byrd, T. Norton, A. Page-Karjian, L. Iwanowicz, D. Iwanowicz, R.S. Cornman, T.M. Work, L. Sanders, J. Casey, C. Adams, M. Ackermann, C. Morrison, **M. Breitbart**. “Genomic variation of chelonid fibropapillomatosis-associated herpesvirus CFPHV among three different Florida sea turtle species”. International Sea Turtle Society Symposium, Lima, Peru. 2016.
- Symonds, E.M., E. Ross Salazar, J.A. Jimenez, V.J. Harwood, **M. Breitbart**. Conjunto de herramientas para el rastreo de fuentes de contaminación microbiana para la identificación de contaminación fecal en la costa del Pacífico de Costa Rica (Microbial source tracking toolbox for the identification of fecal pollution for the Pacific coast of Costa Rica). Oral presentation by E. Symonds. 59^o Congreso Internacional Asociación Colombiana de Ingeniería Sanitaria y Ambiental & Asociación Interamericana de Ingeniería Sanitaria y Ambiental XXXV Congreso Interamericano de Ingeniería Sanitaria y Ambiental, Cartagena, Colombia 2016.
- Breitbart, M.** “Sequences without particles: virus taxonomy in the age of metagenomics”. ICTV Conference on Metagenomics and Taxonomy. Boston, MA. 5/16.

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- Symonds, E.M., C. Sinigalliano, M. Gidley, W. Ahmed, S.M. McQuaig-Ulrich, **M. Breitbart**. Performance of a pepper mild mottle virus RT-qPCR method in coastal waters exposed to untreated wastewater pollution and its simulated risk of gastrointestinal illness. Poster presentation by E. Symonds. Annual American Society of Microbiology Microbes Meeting, Massachusetts, USA. 5/16.
- Breitbart, M.** “Ctenophore-associated bacteria and viruses”. Ctenopalooza. St. Augustine, FL. 3/16.
- Djurhuus, A., D. Goldsmith, N. Sawaya, **M. Breitbart**. “Estimating diversity of Florida Keys zooplankton using new environmental DNA methods”. Oral presentation by A. Djurhuus. 2016 Ocean Sciences Meeting. New Orleans, LA. 2/16.
- Chavez, F., J. Port, **M. Breitbart**, K. Yamahara. “From microbes to whales: using genomics to track changing marine biodiversity”. Poster presentation by F. Chavez. 2016 Ocean Sciences Meeting. New Orleans, LA. 2/16.
- Bonnain, C., K. Buck, **M. Breitbart**. “Iron-virus interactions in the oceans”. Poster presentation by C. Bonnain. 2016 Ocean Sciences Meeting. New Orleans, LA. 2/16.
- Muller-Karger, F., F. Chavez, S. Gittings, S. Doney, M. Kavanaugh, E. Montes, **M. Breitbart**, B. Kirkpatrick, D. Anderson, M. Tartt. “National marine sanctuaries as sentinel sites for a demonstration marine biodiversity observation network (MBON). Poster by F. Muller-Karger. 2016 Ocean Sciences Meeting. New Orleans, LA. 2/16.
- Breitbart, M.** “Bright ideas STEM from today’s youth”. Invited plenary talk. Bright House Networks Bright Ideas Semi-Finalist Competition. Tampa, FL. 1/16.
- Breitbart, M.** “Human beings or microbial masses?” Invited talk. Pint of Science US. Tampa, FL. 10/15.
- Breitbart, M.** “Exploiting insect vectors and predators for virus discovery”. Invited plenary talk. American Society for Virology Meeting. London, Canada. 7/15.
- Breitbart, M.** “Overlooked partners: Viruses and Fungi”. Invited talk. Gordon Research Conference on Animal-Microbe Symbioses. Waterville Valley, NH. 7/15.
- Breitbart, M.** “Marine viral diversity and spatiotemporal variability”. Invited Division M Lecturer at the American Society for Microbiology General Meeting. New Orleans, LA. 6/15.
- Breitbart, M.** “We are outnumbered: microbial puppeteers of the universe”. Invited talk. Pint of Science US. Saint Petersburg, FL. 5/15.
- Breitbart, M.** “Marine viral diversity and spatiotemporal variability”. Invited seminar. New College. Sarasota, FL. 5/15.
- Breitbart, M.** “Marine viral diversity and spatiotemporal variability”. Invited keynote lecture. Investigations of Host-Microbe Interactions XXVII. Cape Canaveral, FL. 3/15.