

## MYA BREITBART

University of South Florida  
College of Marine Science  
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<http://www.marine.usf.edu/genomics>

### 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

University of South Florida Outstanding Faculty Award. 2018.  
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

Editorial Board Member, PeerJ. 2017-present.  
International Society for Microbial Ecology (ISME) International Board of Ambassadors. 2017-2020.  
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.

## Vita for Mya Breitbart

Editor for Aquatic Microbial Ecology. 2015-2018.  
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 19<sup>th</sup> Evergreen International Phage Biology Meeting. 2011.  
Presentation judge for the USF 9<sup>th</sup> 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.  
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.

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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 18<sup>th</sup> 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

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 11<sup>th</sup> 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.

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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 Ciénegas, Mexico. 2007. [http://www.desertfishes.org/cuatroc/literature/pdf/Breitbart\\_videos.php](http://www.desertfishes.org/cuatroc/literature/pdf/Breitbart_videos.php)

### Formal Courses Taught

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.

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.

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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**

Chelsea Bonnain – M.S. student (Fall 2014-present)  
Makenzie Burrows – M.S. student (Fall 2017 – present)  
Natalia Lopez-Figueroa – Ph.D. student (Fall 2017 – present)  
Kema Malki – Ph.D. student (Fall 2016 – present)  
Natalie Sawaya – Ph.D. student (Fall 2015 – present)

### **Current Postdoctoral Researchers**

Anni Djurhuus, 2015-2019.  
Erin Symonds – 2017-2021.

### **Undergraduate Honors Thesis Advisor**

Courtney Clark – USF Tampa. 2014.  
Marco Padilla-Rodriguez – USF Saint Petersburg. 2012.

### **Former Graduate Students**

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. Currently a postdoc at KAUST University in Saudi Arabia.  
Darren Dunlap – M.S. student, 2009 – 2012. M.S. received Spring 2012. Currently a researcher at the United States Geological Survey in Reston, VA.

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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 Schenck – 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).

### Former Postdoctoral Researchers

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.

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

Shelby Mahank – Undergraduate (USFSP; Spring 2019)

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

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)

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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)

### 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), Lara Henry, Adrienne Hollister, Erica Hudson, Natalia Lopez-Figueroa\*, Abdiel Laureano, Brittany Leigh\*, Juliana Leonard (Integrative Biology), 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\*, Amanda Sosnowski\*, Adam Spear, Erin Symonds\*, Elizabeth Young.

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### 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 – 01/31/19.
- 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 – 09/14/20.
- 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 – 06/30/19.
- 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 = \$799,999 (my portion ~\$200,000). 09/01/16 – 08/31/18.
- 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 Peebles, I am a co-PI. Total amount funded: \$129,265; my portion of the award: \$76,307. 09/01/15 – 08/31/17.
- 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 – 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.
- 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)”. 08/01/14-07/31/19. 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 – 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



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- 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.
- 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 Cuatrociengas, 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, 13711 citations as of 1/23/19, H-index 52, Google Scholar)**

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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 Duhaime, 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 (in press). Assessing eukaryotic biodiversity in the Florida Keys National Marine Sanctuary through environmental DNA metabarcoding. *Ecology and Evolution*. <https://doi.org/10.1002/ece3.4742>.
- Van Bogaert, N, K Rosario, B Furman, M Hall, A Greco, **M Breitbart** (2018). Discovery of a novel potexvirus in the seagrass *Thalassia testudinum* from Tampa Bay, Florida. *Limnology and Oceanography Letters*. doi: 10.1002/lol2.10098.
- Burrows, M, J Browning, **M Breitbart**, SA Murawski, EB Peebles (2018). DNA barcoding reveals clear delineation between spawning sites for neritic versus oceanic fishes in the Gulf of Mexico. *Fisheries Oceanography*. doi.org/10.1111/fog.12404.
- Symonds, EM, KH Nguyen, VJ Harwood, **M Breitbart** (2018) Pepper mild mottle virus: A plant pathogen with a greater purpose in (waste)water treatment development and public health management. *Water Research*. 144: 1-12. doi: 10.1016/j.watres.2018.06.066.
- Rosario, K, KA Mettel, BE Benner, R Johnson, C Scott, SZ Yusseff-Vanegas, CCM Baker, DL Cassill, C Storer, A Varsani, **M Breitbart** (2018) Virus discovery in all three major lineages of terrestrial arthropods highlights the diversity of single-stranded DNA viruses associated with invertebrates. *PeerJ*. 6:e5761.
- Creasy, A, K Rosario, BA Leigh, LJ Dishaw, **M Breitbart** (2018). Unprecedented diversity of ssDNA phages from the family *Microviridae* detected within the gut of a protochordate model organism (*Ciona robusta*). *Viruses*. 10: E404. doi: 10.3390/v10080404.
- Breitbart, M**, C Bonnain, K Malki, NA Sawaya (2018). Phage puppet masters of the marine microbial realm. *Nature Microbiology*. 3: 754–766.
- Leigh, BA, **M Breitbart**, HM Oksanen, DH Bamford, LJ Dishaw (2018). Genome sequence of PM2-like phage Cr39582 induced from *Pseudoalteromonas* sp. isolated from the gut of *Ciona robusta*. *Genome Announcements*. 6: e00368-18.
- Kerr, M, K Rosario, C Baker, **M Breitbart** (2018). Discovery of four novel circular single-stranded DNA viruses in fungus-farming termites. *Genome Announcements*. 6: e00318-18.

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- Rohwer, F, **M Breitbart**, J Jara, F Azam, N Knowlton (2001) Diversity of bacteria associated with the Caribbean coral *Montastraea franksi*. Coral Reefs. 20: 85-91.
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- Presentations** (underline indicates my graduate students, undergraduates, or post-docs)
- 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". 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.
- 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.

## Vita for Mya Breitbart

- 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 103<sup>rd</sup> Annual Southeastern Branch American Society for Microbiology Meeting. Saint Petersburg, Florida. 11/17. \*Best undergraduate presentation award.
- 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 103<sup>rd</sup> 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 103<sup>rd</sup> 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. \*Best early career presentation award.
- 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.
- 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.

## Vita for Mya Breitbart

- 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 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.

## Vita for Mya Breitbart

- 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. 8<sup>th</sup> 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. 8<sup>th</sup> Aquatic Virus Workshop. Plymouth, UK. 7/16.
- Breitbart, M.** “Short stories in marine viral ecology”. Invited oral presentation. 8<sup>th</sup> 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-Karjijian, 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<sup>o</sup> 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.
- 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.

## Vita for Mya Breitbart

- 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.
- Breitbart, M.** “Phage Phutures”. Year of the Phage Meeting. San Diego, CA. 1/15.
- Breitbart, M.** “Exploring the Viral World”. Invited talk for the South Pinellas County Retired Educators Association. Saint Petersburg, FL. 11/14.
- Rosario, K., M. Breitbart. Catch that bug! Exploiting insect vectors and predators for virus discovery. Tampa Bay’s Tiniest Beings Microbiology Seminar Series, St. Petersburg, FL. 11/14.
- Rosario, K., M. Breitbart. Exploiting insect vectors to investigate plant pathogen diversity and biogeography. Plant Pathology Seminar, University of Florida, Gainesville, FL. 10/14.
- Rosario, K., M. Breitbart. Exploring the viral world through metagenomics. 20th Annual International Meeting on Microbial Genomics. Lake Arrowhead, CA. 9/14.
- Schenck, R., K. Rosario, R. Harbeitner, J. Cannon, M. Breitbart. “Single-stranded DNA viruses in marine crustaceans”. 2014 Southeastern Microbiology Summit, Ponte Vedra, FL. 9/14. Oral presentation by R. Schenck.

## Vita for Mya Breitbart

- Leigh, B., J.P. Cannon, A. Liberti, C. Karrer, G.W. Litman, **M. Breitbart**, L.J. Dishaw. “The effects of phage on biofilm formation of a *Shewanella* sp. isolated from the gut of a marine invertebrate, *Ciona intestinalis*. 2014 Southeastern Microbiology Summit, Ponte Vedra, FL. 9/14. Oral presentation by B. Leigh.
- Schenck, R., K. Rosario, R. Harbeitner, J. Cannon, **M. Breitbart**. “Single-stranded DNA viruses in marine crustaceans”. 47<sup>th</sup> Annual Meeting of the Society for Invertebrate Pathology, Mainz, Germany. 8/14. Oral presentation by R. Schenck.
- Rosario, K., A. Dayaram, J. Ware, M. Marinov, **M. Breitbart**, A. Varsani. “Discovery of circular single-stranded DNA viruses in top insect predators”. 47<sup>th</sup> Annual Meeting of the Society for Invertebrate Pathology, Mainz, Germany. 8/14. Oral presentation by K. Rosario.
- Breitbart, M.** “Time-Series Analysis Reveals Recurring Patterns in the Abundance and Diversity of Marine Viruses”. Invited oral presentation. Gordon Conference on Marine Microbes, Waltham, MA. 6/14.
- Breitbart, M.**, K. Rosario, M. Hopkins, A. Cohen, D. Goldsmith, D. Dunlap, T.F.F. Ng, T. Greco, I. Hewson. “Small but significant: Single-stranded DNA viruses in the oceans”. Poster presentation. 114<sup>th</sup> General Meeting of the American Society for Microbiology, Boston, MA. 5/14.
- Fahsbender, E., C. DelSesto, M. Gomez-Chiarri, R. Smolowitz, G. Wessel, A. Tuttle, **M. Breitbart**, I. Hewson. “Exploring viral involvement in the multispecies sea star wasting disease outbreak”. Poster presentation. 114<sup>th</sup> General Meeting of the American Society for Microbiology, Boston, MA. 5/14.
- Rosario, K., Y.M. Seah, C.K. Marr, S. Duffy, J.E. Polston, **M. Breitbart**. “Exploiting whiteflies to investigate begomovirus diversity and biogeography”. Poster presentation by K. Rosario. 114<sup>th</sup> General Meeting of the American Society for Microbiology, Boston, MA. 5/14.
- Breitbart, M.** “Viral Discovery in Marine Animals”. Invited oral presentation. Clearwater Aquarium Making Waves Seminar Series, Clearwater, FL. 4/14.
- Symonds, E.M. and **M. Breitbart**. “Pepper Mild Mottle Virus as a Surrogate for Enteric Viruses”. 2nd Global Leadership Initiative Special Workshop on Water Virology, Tokyo, Japan. 1/14.
- Fahsbender, E., E. Wheeler, F. Gulland, J. Cannon, L. Dishaw, **M. Breitbart**. “Development of a serological assay for the novel anellovirus ZcAV”. Oral presentation by E. Fahsbender. The 7<sup>th</sup> International Geminivirus Symposium & 5<sup>th</sup> International ssDNA Comparative Virology Workshop; Hangzhou, China. 11/13.
- Rosario, K., Y.M. Seah, D. Goldsmith, S. Duffy, J.E. Polston, **M. Breitbart**. “Exploiting whiteflies to investigate the diversity and biogeography of begomoviruses”. Oral presentation by Y.M. Seah. The 7<sup>th</sup> International Geminivirus Symposium & 5<sup>th</sup> International ssDNA Comparative Virology Workshop; Hangzhou, China. 11/13.
- Hopkins, M.S., D.B. Goldsmith, A. Cohen, S. Kailasan, M. Agbanje-McKenna, L. McDaniel, J.H. Paul, **M. Breitbart**. “Investigating the diversity of ssDNA bacteriophages in the environment.” Oral presentation by M. Hopkins. Aquatic Virology Workshop 7; Saint Petersburg, FL 11/13.



## Vita for Mya Breitbart

- Goldsmith, D.B., R.J. Parsons, **M. Breitbart**. “Deep sequencing of the viral phoH gene reveals seasonal variations and depth-stratified phage communities in the Sargasso Sea.” Oral presentation by D. Goldsmith. Aquatic Virology Workshop 7; Saint Petersburg, FL. 11/13.
- Symonds, E.M., M.E. Verbyla, G. Lukasik, **M. Breitbart**, J.R. Mihelcic. “Virus Removal in Two Pond Systems Treating Domestic Wastewater in Bolivia”. Oral presentation by M. Verbyla. Water and Health Conference: Where Science Meets Policy, Chapel Hill, North Carolina. 10/13.
- Symonds, E.M., M.E. Verbyla, J. Mihelcic, **M. Breitbart**. Viruses in Wastewater: Exploring Pepper Mild Mottle Virus as a Process Indicator for Enteric Virus Removal. Oral presentation by E Symonds. 17th International Symposium on Health-Related Water Microbiology, Florianópolis, Santa Catarina, Brazil. 9/13.
- Breitbart, M.** “The Global Marine Virome”. Tampa Bay’s Tiniest Biology Microbiology Seminar Series. Invited speaker. 9/13.
- Breitbart, M.** “The Global Marine Virome”. Invited oral presentation. Harvard University. 8/13.
- Breitbart, M.** “The Global Marine Virome”. Invited oral presentation. 2013 EU-US Bioinformatics Course. Newark, Delaware. 8/13.
- Breitbart, M.** “Sequences without particles: taxonomy in the age of metagenomics”. Invited oral presentation. University of Edinburgh, Scotland. 7/13.
- Leigh, B., **M. Breitbart**, L. Dishaw. “Chemotaxis in host gut-microbe interactions”. Oral presentation by B. Leigh. USF College of Marine Science 31<sup>st</sup> Annual Graduate Student Symposium. 4/13.
- Fahsbender, E., E. Wheeler, F. Gulland, J. Cannon, L. Dishaw, **M. Breitbart**. “Development of a serological assay for the novel *Zalophus californianus* anellovirus”. Oral presentation by E. Fahsbender. USF College of Marine Science 31<sup>st</sup> Annual Graduate Student Symposium. 4/13.
- Leigh, B., **M. Breitbart**, L. Dishaw. “Chemotaxis in host gut-microbe interactions”. Oral presentation by B. Leigh. Annual Meeting of the Florida Branch of the American Society for Microbiology; Islamorada, FL. 4/13.
- Padilla-Rodriguez, M., **K. Rosario**, **M. Breitbart**. “Single-stranded DNA viruses identified in fungal samples”. Oral presentation by M. Padilla-Rodriguez. Annual Meeting of the Florida Branch of the American Society for Microbiology; Islamorada, FL. 4/13
- Fahsbender, E., E. Wheeler, F. Gulland, J. Cannon, L. Dishaw, **M. Breitbart**. “Development of a serological assay for the novel *Zalophus californianus* anellovirus”. Oral presentation by E. Fahsbender. Annual Meeting of the Florida Branch of the American Society for Microbiology; Islamorada, FL. 4/13.
- Harbeitner, R., **K. Rosario**, **M. Breitbart**. “A comprehensive survey of circular eukaryotic single-stranded DNA viruses in invertebrates and fungi”. Oral presentation by R. Harbeitner. Annual Meeting of the Florida Branch of the American Society for Microbiology; Islamorada, FL. 4/13.
- Breitbart, M.** “The global marine virome”. Invited oral presentation. University of Tennessee; Knoxville, TN. 3/13.

## Vita for Mya Breitbart

- Hopkins, M., A. Cohen, B. Dwivedi, M. Breitbart. “A PCR survey of the diversity of ssDNA Microviridae phages”. Poster presentation by M. Hopkins. Environmental Virology Workshop; Tucson, AZ. 1/13.
- Goldsmith, D.B., G. Crosti, B. Dwivedi, L.D. McDaniel, A. Varsani, C.A. Suttle, M.G. Weinbauer, R.J. Parsons, M.W. Lomas, C.A. Carlson, R.A. Sandaa, M. Breitbart. “Pho regulon genes in phage: Development of phoH as a novel signature gene for assessing marine phage diversity”. Poster presentation by D. Goldsmith. Environmental Virology Workshop; Tucson, AZ. 1/13.
- Symonds, E.M., K. Rosario, D.W. Griffin, C. Sinigalliano, J. Stewart, M. Breitbart. “Pepper mild mottle virus as a viral bioindicator of human fecal pollution”. Poster presentation by E. Symonds. 2012 Water and Health Conference; Chapel Hill, NC, 10/12.
- Breitbart, M.** “Virus hunting in the age of metagenomics”. Invited oral presentation. College of William and Mary; Williamsburg, VA. 9/12.
- Breitbart, M.** “The global marine virome”. Invited oral presentation. Virginia Institute of Marine Science; Gloucester Point, VA. 9/12.
- Goldsmith, D.B., G. Crosti, B. Dwivedi, L.D. McDaniel, A. Varsani, C.A. Suttle, M.G. Weinbauer, R.J. Parsons, M.W. Lomas, C.A. Carlson, R.A. Sandaa, M. Breitbart. “Pho regulon genes in phage: Development of phoH as a novel signature gene for assessing marine phage diversity”. Poster presentation by D. Goldsmith. Viruses of Microbes Conference; Brussels, Belgium. 7/12.
- Padilla-Rodriguez, M., K. Rosario, M. Breitbart. “Detection of circular single-stranded DNA viruses in insects and wild vegetation”. Poster presentation by M. Padilla-Rodriguez. USF Saint Petersburg Undergraduate Research Symposium; Saint Petersburg, FL. 4/12.
- Symonds, E.M. and M. Breitbart. “Pepper mild mottle virus as an alternative viral bioindicator of human fecal pollution”. Oral presentation by E. Symonds. Gulf of Mexico Alliance Microbial Source Tracking Workshop III; Saint Petersburg, FL. 4/12.
- Breitbart, M.** “Viruses in sewage and reclaimed water: the hunt for novel bioindicators”. USF Environmental & Water Resources Engineering Seminar Series; Tampa, FL. 3/12.
- Goldsmith, D.B., G. Crosti, B. Dwivedi, L.D. McDaniel, R.A. Sandaa, R.J. Parsons, M. Breitbart. “Diversity of marine viral communities over depth and time in the northwestern Sargasso Sea”. Oral presentation by D. Goldsmith. 30<sup>th</sup> Annual USF College of Marine Science Graduate Student Symposium; St. Petersburg, FL. 2/12.
- Symonds, E.M. and M. Breitbart. “Development of Pepper mild mottle virus as a bioindicator of fecal pollution in shellfish harvesting areas”. Oral presentation by E. Symonds. 30<sup>th</sup> Annual USF College of Marine Science Graduate Student Symposium; St. Petersburg, FL. 2/12.
- Hopkins, M. and M. Breitbart. “Exploring the diversity and ecology of ssDNA viruses in the ocean”. Oral presentation by M. Hopkins. 30<sup>th</sup> Annual USF College of Marine Science Graduate Student Symposium; St. Petersburg, FL. 2/12.
- Dunlap, D.S., M. Breitbart, I. Hewson. “Evidence for virus infection in the calanoid copepods *Acartia tonsa* and *Labidocera aestiva* in Tampa Bay, Florida”. ASLO Ocean Sciences; Salt Lake City, UT. 2/12.

## Vita for Mya Breitbart

- Breitbart, M.** “Virus hunting in the age of metagenomics: exploring active infections, environmental reservoirs, and transmission mechanisms. USF Global Health Seminar Series; Tampa, FL. 2/12.
- Symonds, E.M., K. Rosario, D.W. Griffin, C. Sinigalliano, J. Stewart, M. Breitbart. “Viruses found in sewage and their potential to indicate fecal pollution in coastal waters”. Poster presentation by E. Symonds. 21<sup>st</sup> Annual Southwest Florida Water Resources Conference; Naples, FL. 11/11.
- Symonds, E.M., K. Rosario, D.W. Griffin, C. Sinigalliano, J. Stewart, M. Breitbart. “Viruses found in sewage and their potential to indicate fecal pollution in coastal waters”. Poster presentation by E. Symonds. Aquatic Virus Workshop; The Netherlands. 11/11.
- Dunlap, D., I. Hewson, M. Breitbart. “Evidence for virus infection in the calanoid copepod *Acartia tonsa* from Tampa Bay, Florida”. Oral presentation by D. Dunlap. Annual Meeting of the Florida Branch of the American Society for Microbiology; Islamorada, FL. 9/11.
- Padilla-Rodriguez, M., K. Rosario, M. Breitbart. “Novel single-stranded DNA viruses identified in insects”. Oral presentation by M. Padilla-Rodriguez. Annual Meeting of the Florida Branch of the American Society for Microbiology; Islamorada, FL. 9/11.
- Cohen, A., K. Rosario, M. Breitbart. “Rolling circle amplification as a tool for hunting novel single-stranded DNA viruses”. Oral presentation by A. Cohen. Annual Meeting of the Florida Branch of the American Society for Microbiology; Islamorada, FL. 9/11.
- Hopkins, M., B. Dwivedi, K.P. Tucker, M. Breitbart. “Single-stranded DNA phages in the marine environment”. Oral presentation by M. Hopkins. Annual Meeting of the Florida Branch of the American Society for Microbiology; Islamorada, FL. 9/11.
- Van Woudenberg, L., C. Daniels, S. Burghart, R. Kitzmiller, E. Peebles, M. Breitbart. “Genetic identification of single fish eggs for a community analysis of Terra Ceia Bay, Florida”. Oral presentation by L. Van Woudenberg. Annual Meeting of the Florida Branch of the American Society for Microbiology; Islamorada, FL. 9/11.
- Fahsbender, E., C. Daniels, R. Cunning, A. Baker, M. Breitbart. “Bacterial profiling of the scleractinian coral *Pocillopora damicornis*”. Oral presentation by E. Fahsbender. Annual Meeting of the Florida Branch of the American Society for Microbiology; Islamorada, FL. 9/11.
- Cook, M.M., K. Rosario, S. McQuaig, H. Adkison, M. Breitbart, E. Van Vleet. “Electrocoagulation technology for removal of microbiological contaminants and estrogenic endocrine disruptors”. Oral presentation by M. Cook. Annual Meeting of the Florida Branch of the American Society for Microbiology; Islamorada, FL. 9/11.
- Breitbart, M.** “How diverse is the global marine virome?” Invited plenary talk. 19<sup>th</sup> Evergreen International Phage Biology Meeting: Olympia, WA. 8/11.
- Aziz, R., B. Dwivedi, M. Breitbart, R.A. Edwards. “Phages without borders: a global survey of phage nucleic acids in metagenomes and microbiomes”. Oral presentation by R. Aziz. 19<sup>th</sup> Evergreen International Phage Biology Meeting: Olympia, WA. 8/11.
- Hopkins, M., B. Dwivedi, K. Tucker, M. Breitbart. “Single-stranded DNA phages in the marine environment”. Oral presentation by M. Hopkins. 19<sup>th</sup> Evergreen International Phage Biology Meeting: Olympia, WA. 8/11.

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- Dwivedi, B., R. Schmieder, D. Goldsmith, R.A. Edwards, **M. Breitbart**. “PhiSiGns: an online tool to identify signature genes in phages and design PCR primers for examining phage diversity”. Poster presentation by B. Dwivedi. 19<sup>th</sup> Evergreen International Phage Biology Meeting; Olympia, WA. 8/11.
- Breitbart, M.** “Spatial and temporal variability in the distribution of marine viruses”. Invited plenary talk. American Society for Microbiology 111<sup>th</sup> General Meeting; New Orleans, LA. 5/11.
- Fahsbender, E., C. Daniels, R. Cunning, A. Baker, **M. Breitbart**. “Bacterial profiling of the scleractinian coral *Pocillopora damicornis*”. USF 9<sup>th</sup> Annual Undergraduate Research Symposium; Tampa, FL. 4/11.
- Breitbart, M.** “Viral discovery in the age of metagenomics”. Invited oral presentation. Cornell University; Ithaca, NY. 4/11.
- Breitbart, M.** “Viral discovery in the age of metagenomics”. Invited oral presentation. University of South Carolina; Columbia, SC. 4/11.
- Breitbart, M.** “Viral discovery in the age of metagenomics: Exploration of active infections, environmental reservoirs, and transmission mechanisms”. Invited oral presentation. Blood Systems Research Institute; San Francisco, CA. 3/11.
- Breitbart, M.**, T.F.F. Ng, K. Suedmeyer, F. Gulland, E. Wheeler, K. Rosario, E. Symonds, Y. Ruan, C. Nilsson, Y.W. Lim, C. Sinigalliano, J. Stewart, E. Bixby, J. Polston, G. Vallad, S. Duffy. “Virus hunting in the age of metagenomics”. Invited poster presentation. NSF Ecology of Marine Infectious Diseases Workshop. San Juan, Puerto Rico. 2/11.
- Hewson, I., J. Barbosa, **M. Breitbart**, J. Brown, C. Couch, D. Dunlap, N. Hairston, D. Harvell, C. Kearns, B. LaBarre, M. Mouchka, T. Ng. “Metaviromic-enabled ecological investigations of aquatic invertebrate disease”. Oral presentation by I. Hewson. ASLO Aquatic Sciences Meeting; San Juan, Puerto Rico. 2/11.
- Goldsmith, D.B., G. Crosti, L. McDaniel, B. Dwivedi, R. Parsons, C. Carlson, C.A. Suttle, M.G. Weinbauer, R.A. Sandaa, **M. Breitbart**. “Biogeography of marine viruses as revealed through sequencing of PhoH, a novel signature gene involved in phosphate metabolism”. Oral presentation by D. Goldsmith. 29<sup>th</sup> Annual USF College of Marine Science Graduate Student Symposium; St. Petersburg, FL. 1/11.
- Dunlap, D., T.F.F. Ng, I. Hewson, **M. Breitbart**. “Novel circovirus identified in the calanoid copepod *Labidocera aestiva* from Tampa Bay, Florida”. Oral presentation by D. Dunlap. 29<sup>th</sup> Annual USF College of Marine Science Graduate Student Symposium; St. Petersburg, FL. 1/11.
- Breitbart, M.** “The global marine virome”. Invited oral presentation. Uppsala University; Uppsala, Sweden. 12/10.
- Breitbart, M.** “The global marine virome”. Invited oral presentation. Stockholm University; Stockholm, Sweden. 12/10.
- Breitbart, M.** “The global marine virome”. Invited oral presentation. University of Bergen; Bergen, Norway. 12/10.
- Breitbart, M.**, T.F.F. Ng, D. Willner, Y.W. Lim, E. Bixby, R. Schmieder, B. Chau, C. Nilsson, S. Anthony, G.E. Vallad, Y. Ruan, F. Rohwer, S. Duffy, J.E. Polston. “Vector-enabled metagenomics on whiteflies and mosquitoes leads to the discovery of novel plant and

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- animal viruses”. Invited plenary talk. 6<sup>th</sup> International Symposium on Geminiviruses; Guanajuato, Mexico. 11/10.
- Rosario, K., M. Marinov, D. Stainton, S. Kraberger, D. Martin, **M. Breitbart**, A. Varsani. “Discovery of a novel ssDNA virus in dragonflies”. Talk by K. Rosario. 6<sup>th</sup> International Symposium on Geminiviruses; Guanajuato, Mexico. 11/10.
- Breitbart, M.** “Virus hunting in the age of metagenomics”. Invited oral presentation. 22<sup>nd</sup> Annual Kavli Frontiers of Science Symposium; Irvine, CA. 11/10.
- Breitbart, M.** “Viral discovery in the age of metagenomics: Exploring infections, environmental reservoirs, and transmission mechanisms”. Invited oral presentation as a UA ADVANCE Junior Scientist Speaker. University of Arizona; Tucson, AZ. 11/10.
- Breitbart, M.** “The ocean and human health: The good, the bad, and the ugly”. Invited oral presentation. The Pier Aquarium’s SciCafe; St. Petersburg, FL. 10/10.
- Breitbart, M.** “Viral discovery in the age of metagenomics: Stories of sewage and sick sea creatures”. Invited oral presentation, Hillsborough Community College; Tampa, FL. 9/10.
- Ng, T.F.F., S. Alavandi, **M. Breitbart**. “Metagenomic studies reveal novel viruses in shrimp”. Oral presentation by T. Ng, Sixth International Symposium on Aquatic Animal Health; Tampa, FL. 9/10.
- Ng, T.F.F., C. Driscoll, *B. Dwivedi*, D. Limpe, S. Lamere, S. Head, K. Feldman, D. Salomon, **M. Breitbart**. “High diversity of novel RNA viruses found in big brown bats using high-throughput metagenomic sequencing”. Oral presentation by T. Ng. Annual Meeting of the Florida Branch of the American Society for Microbiology; Islamorada, FL. 10/10.
- Daniels, C., P. Turner, M.B. Decker, **M. Breitbart**. “Bacterial communities associated with *Mnemiopsis leidyi*”. Oral presentation by C. Daniels. Annual Meeting of the Florida Branch of the American Society for Microbiology; Islamorada, FL. 10/10.
- Dunlap, D., T.F.F. Ng, I. Hewson, **M. Breitbart**. “Novel circovirus identified in the calanoid copepod *Labidocera aestiva* from Tampa Bay, Florida”. Oral presentation by D. Dunlap. Annual Meeting of the Florida Branch of the American Society for Microbiology; Islamorada, FL. 10/10.
- Dwivedi, B., R.K. Aziz, R. Edwards, **M. Breitbart**. “Phage Eco-Locator: A systematic survey of known phage genomes in environmental metagenomes”. Oral presentation by B. Dwivedi. Annual Meeting of the Florida Branch of the American Society for Microbiology; Islamorada, FL. 10/10.
- Breitbart, M.** “Viral discovery in the age of metagenomics”. Invited oral presentation. 13<sup>th</sup> International Symposium on Microbial Ecology: Seattle, WA. 8/10.
- Daniels, C., P. Turner, M.B. Decker, **M. Breitbart**. “Bacterial communities associated with *Mnemiopsis leidyi*”. Poster presentation by C. Daniels. 13<sup>th</sup> International Symposium on Microbial Ecology: Seattle, WA. 8/10.
- Goldsmith, D.B., R. Parsons, K.P. Tucker, C.A. Carlson, **M. Breitbart**. “Abundance and Diversity of viruses throughout the water column in the Northwestern Sargasso Sea.” Poster presentation. 13<sup>th</sup> International Symposium on Microbial Ecology: Seattle, WA. 8/10.

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- Dunlap, D.S., T.F.F. Ng, I. Hewson, M. Breitbart. “Novel circovirus identified in the calanoid copepod *Labidocera aestiva* from Tampa Bay, Florida. Poster presentation by D. Dunlap. 13<sup>th</sup> International Symposium on Microbial Ecology: Seattle, WA. 8/10.
- Parsons, R.J., **M. Breitbart**, M.W. Lomas, C.A. Carlson. “Time series study reveals regular temporal and vertical variability of viral abundance in the subtropical North Atlantic”. Poster presentation by R. Parsons. 13<sup>th</sup> International Symposium on Microbial Ecology: Seattle, WA. 8/10.
- Sun, C.L., B.C. Thomas, V.J. Denef, K.P. Tucker, P. Wilmes, C. Pan, R.L. Hettich, N.C. VerBerkmoes, **M. Breitbart**, J.F. Banfield. “Analysis of virus-CRISPR interactions in a natural system”. Poster presentation by C. Sun. 13<sup>th</sup> International Symposium on Microbial Ecology: Seattle, WA. 8/10.
- Ng, T.F.F., C. Driscoll, B. Dwivedi, D. Limpet, S. Lamere, S. Head, K. Feldman, D. Salomon, M. Breitbart. “High diversity of novel RNA viruses found in big brown bats using viral metagenomics”. Oral presentation by T. Ng. 59<sup>th</sup> Annual Wildlife Disease Association International Meeting: Iguazu, Argentina. 6/10.
- Goldsmith, D.B., R. Parsons, M. Lomas, C. Carlson, M. Breitbart. “Abundance and diversity of viruses throughout the water column in the northwestern Sargasso Sea”. Poster presentation by D. Goldsmith. Viruses of Microbes Conference: Paris, France. 6/10.
- Ng, T.F.F., S. Alavandi, E. Wheeler, D. Dunlap, W.K. Suedmeyer, F. Gulland, I. Hewson, M. Breitbart. “Metagenomic studies reveal novel single-stranded DNA viruses in aquatic animals”. Oral presentation by T. Ng. 41<sup>st</sup> Annual International Association for Aquatic Animal Medicine Conference: Vancouver, Canada. 5/10.
- Aziz, R.K., **M. Breitbart**, R.A. Edwards. “Phage Eco-locator: Mapping phage nucleic acids in 310 metagenomes”. Poster presentation by R. Aziz. San Diego Microbiology Group Annual Meeting: San Diego, CA. 5/10.
- Aziz, R.K., B. Dwivedi, J. Anderson, B. Hurwitz, J.P. Massar, M. Sullivan, J. Elhai, **M. Breitbart**, R. Edwards. “PhAnToMe (Phage Annotation Tools and Methods): A platform for phage annotation and comparative genomics”. Poster presentation by R. Aziz. San Diego Microbiology Group Annual Meeting: San Diego, CA. 5/10.
- Rosario, K., S. Svraka, E. Duizer, M. Breitbart, M. Koopmans. “Metagenomics for virus identification in a public health setting”. Poster presentation by K. Rosario. American Society for Microbiology 110<sup>th</sup> General Meeting: San Diego, CA. 5/10.
- Angly, F.E., M. Youle, B. Nostrat, S. Srinagesh, B. Rodriguez-Brito, P. McNairnie, G. Deyanat-Yazdi, **M. Breitbart**, G. Tyson, F. Rohwer. “Evolution and distribution of Roseobacter SIO phage strains in the ocean”. Poster presentation by F. Angly. American Society for Microbiology 110<sup>th</sup> General Meeting: San Diego, CA. 5/10.
- Aziz, R.K., **M. Breitbart**, R.A. Edwards. “Phages without borders: distribution of phage nucleic acids in 310 metagenomes”. Poster presentation by R. Aziz. American Society for Microbiology 110<sup>th</sup> General Meeting: San Diego, CA. 5/10.
- Aziz, R.K., B. Dwivedi, J. Anderson, B. Hull, B. Hurwitz, J. Massar, M. Sullivan, J. Elhai, **M. Breitbart**, R.A. Edwards. “PhAnToMe (Phage annotation tools and methods): A platform for phage annotation and comparative genomics”. Poster presentation by R.

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- Edwards. American Society for Microbiology 110<sup>th</sup> General Meeting: San Diego, CA. 5/10.
- Breitbart, M.** “Virus hunting in the age of metagenomics: expect the unexpected”. Invited oral presentation. American Society for Microbiology 110<sup>th</sup> General Meeting: San Diego, CA. 5/10.
- Breitbart, M.,** D. Hollander, A. Nitti, B. Van Mooy, J. Siefert, V. Souza. “Modern freshwater microbialites of Cuatro Ciénegas, Mexico. I: Metagenomic and stable isotopic analyses to assess microbial community structure and function”. Astrobiology Science Conference; League City, TX. 4/10.
- Hollander, D., **M. Breitbart**, A. Nitti, B. Van Mooy, J. Siefert, V. Souza. “Modern freshwater microbialites, Cuatro Ciénegas, Mexico. II. Detailed spatial analysis of geochemical signals linked to microbial activity and carbonate precipitation”. Oral presentation by D. Hollander. Astrobiology Science Conference; League City, TX. 4/10.
- Souza, V., **M. Breitbart**, D. Hollander, J. Elser, V. Meadows, J. Siefert. “Cuatro Ciénegas, a desert oasis with active stromatolites: an astrobiological project”. Oral presentation by V. Souza. Astrobiology Science Conference; League City, TX. 4/10.
- Ng, T.F.F., D. Willner, C. Nilsson, Y.W. Lim, R. Schmieder, B. Chau, Y. Ruan, F. Rohwer, **M. Breitbart**. “Vector-based metagenomics for animal virus surveillance”. Poster presentation by T. Ng. 14<sup>th</sup> International Congress on Infectious Diseases (ICID): Miami, FL. 3/10.
- Hewson, I., **M. Breitbart**, J. Brown, D. Doud, L. McDaniel, T.F. Ng, E. Webb. “Genomic and transcriptomic insights into microbial and viral roles in ocean biogeochemistry”. Oral presentation by I. Hewson. 2010 Ocean Sciences Meeting; Portland, OR. 2/10.
- Tucker, K.P., C.L. Sun, B.D. Dill, P. Wilmes, R. Hettich, B.C. Thomas, V. Deneff, N. VerBerkmoes, L. Comolli, B. Luef, J.F. Banfield, **M. Breitbart**. “Metagenomic and metaproteomic analysis of viruses from an acid mine drainage system”. Poster presentation by K.P. Tucker. Department of Energy Genomic Science Awardee Workshop 2010; Arlington, VA. 2/10.
- Sun, C., B. Thomas, V. Deneff, K.P. Tucker, P. Wilmes, R. Barrangou, C. Pan, M.P. Thelen, R. Hettich, N. VerBerkmoes, **M. Breitbart**, J. Banfield. “Community proteogenomic analysis of virus-host interactions in a natural system”. Poster presentation by C. Sun. Department of Energy Genomic Science Awardee Workshop 2010; Arlington, VA. 2/10.
- VerBerkmoes, N., B. Dill, J. Young, K.P. Tucker, C. Sun, B. Thomas, V. Deneff, P. Wilmes, P. Carey, M. Shah, C. Pan, R. Hettich, R. Barrangou, **M. Breitbart**, J. Banfield. “Advanced proteomics methods to identify low level viral signatures in isolate and environmental samples”. Poster presentation by N. VerBerkmoes. Department of Energy Genomic Science Awardee Workshop 2010; Arlington, VA. 2/10.
- Breitbart, M.** “Viruses in sewage and reclaimed water”. Invited oral presentation. Special Seminar: The Impending Water Crisis of Tampa Bay: Waste, Reuse, and Environmental Protection; Tampa, FL. 1/10.
- Dwivedi, B., R. Aziz, R. Edwards, **M. Breitbart**. “A computational tool for the identification of signature genes among phages”. Poster presentation by B. Dwivedi. 7<sup>th</sup> Annual Rocky Mountain Bioinformatics Conference; Snowmass, CO. 12/09.

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- Aziz, R.K., **M. Breitbart**, R. Edwards. “Can we accurately determine the fittest genes in nature?” Oral presentation by R.K. Aziz. 7<sup>th</sup> Annual Rocky Mountain Bioinformatics Conference; Snowmass, CO. 12/09.
- Aziz, R.K., B. Dwivedi, J. Anderson, B. Hurwitz, J.P. Massar, M. Sullivan, J. Elhai, **M. Breitbart**, R. Edwards. “PhAnToMe (Phage Annotation Tools and Methods): A platform for phage annotation and comparative genomics”. Poster presentation by R.K. Aziz. 7<sup>th</sup> Annual Rocky Mountain Bioinformatics Conference; Snowmass, CO. 12/09.
- Rosario, K., C. Nilsson, E. Symonds, Y. Ruan, **M. Breitbart**. “Viruses in Reclaimed Water”. Oral presentation by K. Rosario. 28<sup>th</sup> Annual USF College of Marine Science Graduate Student Symposium; St. Petersburg, FL. 11/09.
- Ng, T.F.F., S. Alavandi, **M. Breitbart**. “Novel DNA and RNA viruses characterized from wild shrimp in Florida”. Oral presentation by T.F.F. Ng. 28<sup>th</sup> Annual USF College of Marine Science Graduate Student Symposium; St. Petersburg, FL. 11/09.
- Nitti, A., D. Hollander, **M. Breitbart**. “A genomic, stable isotopic, and organic geochemical analysis of freshwater microbialites”. Oral presentation by A. Nitti. 28<sup>th</sup> Annual USF College of Marine Science Graduate Student Symposium; St. Petersburg, FL. 11/09.
- Goldsmith, D.B., R. Parsons, M. Lomas, C. Carlson, **M. Breitbart**. “Abundance and diversity of viruses throughout the water column in the northwestern Sargasso Sea”. Oral presentation by D. Goldsmith. 28<sup>th</sup> Annual USF College of Marine Science Graduate Student Symposium; St. Petersburg, FL. 11/09.
- Dunlap, D., T.F.F. Ng, I. Hewson, **M. Breitbart**. “Metagenomic analysis of RNA viruses in copepods and the sea”. Oral presentation by D. Dunlap. 28<sup>th</sup> Annual USF College of Marine Science Graduate Student Symposium; St. Petersburg, FL. 11/09.
- Breitbart, M.** “Examination of reservoirs and transmission mechanisms for plant viruses using metagenomic sequencing”. Invited oral presentation. University of Florida Gulf Coast Research and Education Center; Wimauma, FL. 10/09.
- Ng, T.F.F., S. Alavandi, **M. Breitbart**. “Novel DNA and RNA viruses characterized from wild shrimp in Florida”. Oral presentation by T.F.F. Ng. Annual Meeting of the Florida Branch of the American Society for Microbiology; Islamorada, FL. 10/09.
- Rosario, K., K.P. Tucker, **M. Breitbart**. “Novel single-stranded DNA viruses in the marine environment”. Oral presentation by K. Rosario. Annual Meeting of the Florida Branch of the American Society for Microbiology; Islamorada, FL. 10/09.
- Breitbart, M.** “Metagenomics for viral discovery”. Invited oral presentation for “Science Fridays”. Bermuda Institute for Ocean Science; Bermuda. 7/09.
- Breitbart, M.** “Marine viral diversity and ecology”. Invited guest lecture for summer course in Microbial Oceanography at the Bermuda Institute for Ocean Science; Bermuda. 7/09.
- Goldsmith, D.B., R. Parsons, K. Pause Tucker, C. Carlson, M. Breitbart. “Abundance and diversity of viruses throughout the water column in the northwestern Sargasso Sea”. Oral presentation by D. Goldsmith. 18<sup>th</sup> Biennial Evergreen International Phage Biology Meeting; Olympia, WA. 8/09.
- Pause Tucker, K. R. Parsons, **M. Breitbart**. “Diversity and distribution of a novel group of marine ssDNA phage”. Oral presentation by K. Pause Tucker. 18<sup>th</sup> Biennial Evergreen International Phage Biology Meeting; Olympia, WA. 8/09.



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- Dwivedi, B., **M. Breitbart**, J. Anderson, J.P. Massar, M. Sullivan, J. Elhai, R. Edwards. “PHANTOME: Phage Annotation Tools and Methods”. Poster presentation. 18<sup>th</sup> Biennial Evergreen International Phage Biology Meeting; Olympia, WA. 8/09.
- Sun, C., B. Thomas, K. Pause Tucker, P. Wilmes, R. Hettich, N. VerBerkmoes, **M. Breitbart**, J.F. Banfield. “Community proteogenomic analysis of virus-host interactions in a natural system. Oral presentation by C. Sun. 18<sup>th</sup> Biennial Evergreen International Phage Biology Meeting; Olympia, WA. 8/09.
- Breitbart, M.** “Metagenomics for viral discovery”. Invited poster presentation. 15<sup>th</sup> Annual German-American Kavli Frontiers of Science Symposium; Irvine, CA. 6/09.
- Breitbart, M.** “Abundance and diversity of viruses throughout the water column in the Northwestern Sargasso Sea.” Poster presentation. 109<sup>th</sup> General Meeting of the American Society for Microbiology; Philadelphia, PA. 5/09.
- Rosario, K., C. Nilsson, E. Symonds, Y. Ruan, **M. Breitbart**. “Viruses in reclaimed water”. Poster presentation by K. Rosario. 109<sup>th</sup> General Meeting of the American Society for Microbiology; Philadelphia, PA. 5/09.
- Ng, T., C. Manire, W.K. Suedmeyer, **M. Breitbart**. “Discovering novel animal viruses using metagenomic sequencing”. Poster presentation by T. Ng. 109<sup>th</sup> General Meeting of the American Society for Microbiology; Philadelphia, PA. 5/09.
- Breitbart, M.** “The surprisingly (high/low) diversity of marine viruses? Can we decide which?”. Invited oral presentation. SCOR Viral Ecology Meeting; Newark, DE. 5/09.
- Ng, T.F.F., **M. Breitbart**. “Discovering novel marine animal viruses using viral metagenomics”. Oral presentation by T. Ng. SCOR Viral Ecology Meeting; Newark, DE. 5/09.
- Rosario, K., **M. Breitbart**. “Novel single-stranded DNA viruses in the marine environment”. Oral presentation by K. Rosario. SCOR Viral Ecology Meeting; Newark, DE. 5/09.
- Goldsmith, D., R. Parsons, K. Pause, C. Carlson, **M. Breitbart**. “Abundance and diversity of viruses throughout the water column in the Northwestern Sargasso Sea”. Poster presentation by D. Goldsmith. SCOR Viral Ecology Meeting; Newark, DE. 5/09.
- Ng, T.F.F., C. Manire, W.K. Suedmeyer, K. Borrowman, T. Langer, E. Wheeler, F. Gulland, L. Ehrhart, **M. Breitbart**. “Discovering novel animal viruses using viral metagenomics”. Oral presentation by T. Ng. 40<sup>th</sup> Annual International Association for Aquatic Animal Medicine (IAAAM) Conference; San Antonio, TX. 5/09.
- Zeifman, A., C. Daniels, **M. Breitbart**. “Spatial variability of coral-associated bacteria”. Oral presentation by A. Zeifman. 2<sup>nd</sup> Annual Eckerd College Student Research Symposium: Saint Petersburg, FL. 4/09.
- Pause, K.C., C. L. Sun, P. Wilmes, R. Hettich, N. VerBerkmoes, L. Comolli, J.F. Banfield, **M. Breitbart**. “Characterization of viruses from an acid mine drainage system”. Poster presentation by K. Pause. Department of Energy: Genomics: GTL Awardee Meeting: Bethesda, MD. 2/09.
- Breitbart, M.** “Metagenomic sequencing for viral discovery”. Invited oral presentation. University of Tampa. 1/09.
- Nitti, A., C. Daniels, A. Hoare, J. Siefert, V. Souza, **M. Breitbart**, D. Hollander. “A molecular, isotopic, and organic geochemical analysis of freshwater microbialites from Cuatro

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- Cienegas, Mexcio”. Oral presentation by A. Nitti. ASLO Aquatic Sciences Meeting: Nice, France. 1/09.
- Daniels, C., I. Berzins, C. Watson, K. Heym-Kilgore, **M. Breitbart**. “Bacterial community profiling for coral restoration”. Oral presentation by C. Daniels. ASLO Aquatic Sciences Meeting: Nice, France. 1/09.
- Breitbart, M.**, T.F.F. Ng, C. Manire, K. Borrowman, T. Langer, L. Ehrhart. “Discovery of a novel single-stranded DNA virus from a sea turtle fibropapilloma using viral metagenomics”. Invited oral presentation. 12<sup>th</sup> Annual Florida Marine Turtle Permit Holder Meeting: Tampa, Florida. 1/09.
- Breitbart, M.**, K. Rosario, E. Symonds, C. Nilsson, Y. Ruan. "Metagenomics for viral discovery". Invited oral presentation. 44th Annual Meeting of the Argentine Society for Biochemistry and Molecular Biology Research (SAIB); Cordoba, Argentina. 11/08.
- Goldsmith, DB, R. Parsons, K.C. Pause, C. Carlson, **M. Breitbart**. "Abundance and diversity of viruses throughout the water column in the Northwestern Sargasso Sea". Oral presentation by D. Goldsmith. Joint Annual Meeting - Southeastern Branch and Florida Branch of the American Society for Microbiology; Jacksonville, FL. 11/08.
- Ng, TFF, E. Bixby, F. Akad, J. Polston, **M. Breitbart**. "New molecular surveillance scheme for emerging pathogenic plant viruses". Oral presentation by T. Ng. Joint Annual Meeting - Southeastern Branch and Florida Branch of the American Society for Microbiology; Jacksonville, FL. 11/08.
- Nitti, A, C. Daniels, J. Siefert, V. Souza, **M. Breitbart**, D. Hollander. "A molecular, isotopic, and organic geochemical analysis of freshwater microbialites". Oral presentation by A. Nitti. Joint Annual Meeting - Southeastern Branch and Florida Branch of the American Society for Microbiology; Jacksonville, FL. 11/08.
- Zeifman, A, C. Daniels, **M. Breitbart**. "Spatial variability of coral-associated bacteria". Oral presentation by A. Zeifman. Joint Annual Meeting - Southeastern Branch and Florida Branch of the American Society for Microbiology; Jacksonville, FL. 11/08.
- Breitbart, M.** "Viral metagenomics". Tulane Department of Biochemistry; New Orleans, LA. 10/08. Invited talk.
- Rosario, K., R. Rodriguez, V.L. Loughheed, **M. Breitbart**. "Antarctic polyketide synthase Type 1 Genes" Society for Advancement of Chicanos and Native Americans in Science; Salt Lake City, UT. 10/08.
- Daniels, C., **M. Breitbart**, I. Berzins, C. Watson. “Microbial profiling for coral restoration”. Oral presentation by C. Daniels. 11th International Coral Reef Symposium; Fort Lauderdale, FL. 7/08.
- Rosario, K and **M. Breitbart**. “Metagenomic sequencing for viral discovery”. Invited oral presentation given by K. Rosario. American Society for Microbiology 108th General Meeting; Boston, MA. 6/08.
- Pause, KC, C. Sun, P. Wilmes, J.F. Banfield, **M. Breitbart**. “Characterization of viruses from an acid mine drainage system using microscopy and metagenomic sequencing”. Poster presentation by K. Pause. American Society for Microbiology 108th General Meeting; Boston, MA. 6/08.

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Rosario, K., C. Nilsson, Y. Ruan, **M. Breitbart**. “Viruses in reclaimed water”. Poster presentation by K. Rosario. American Society for Microbiology 108th General Meeting; Boston, MA. 6/08.

Symonds, EM, K. Rosario, M. Breitbart. “Viruses found in sewage and their potential to indicate fecal pollution in coastal waters”. Poster presentation by E. Symonds. American Society for Microbiology 108th General Meeting; Boston, MA. 6/08.

Ng, TFF, C. Manire, M. Breitbart. “Discovery and prevalence of a novel sea turtle circovirus using metagenomic sequencing”. Poster presentation by T. Ng. American Society for Microbiology 108th General Meeting; Boston, MA. 6/08.

Ng, TFF, W.K. Suedmeyer, M. Breitbart. “Discovery of a novel anellovirus from a mortality event of four captive California sea lions using viral metagenomics”. Oral presentation by T. Ng. 39th Annual International Association for Aquatic Animal Medicine (IAAAM) Conference; Rome, Italy. 5/08. TFF Ng was awarded best oral presentation.

**Breitbart, M.** “Microbiology and coral restoration”. Coral Restoration Workshop; Key West, FL. 4/08.

**Breitbart, M.** “Viruses in sewage and reclaimed water – implications for human and environmental health”. Invited seminar. ERIC symposium; Tampa, FL. 4/08.

Daniels, C, M. Breitbart, I. Berzins, C. Watson. “Microbial profiling for coral restoration”. Oral presentation by C. Daniels. USF College of Marine Science Graduate Student Symposium; Saint Petersburg, FL. 4/08.

Ng, TFF, C. Manire, K. Borrowman, T. Langer, L. Ehrhart, M. Breitbart. “A novel virus discovered from a sea turtle fibropapilloma using viral metagenomics and the characterization of its quasispecies”. Oral presentation by T. Ng. USF College of Marine Science Graduate Student Symposium; Saint Petersburg, FL. 4/08. TFF Ng was awarded 2nd best oral presentation.

Nitti, A, M. Breitbart, D. Hollander. “The origin of freshwater microbialites: an in situ chemical, genomic, and stable isotope approach”. Oral presentation by A. Nitti. USF College of Marine Science Graduate Student Symposium; Saint Petersburg, FL. 4/08.

Rosario, K., C. Nilsson, Y. Ruan, **M. Breitbart**. “Viruses in reclaimed water”. Oral presentation by K. Rosario. USF College of Marine Science Graduate Student Symposium; Saint Petersburg, FL. 4/08. K. Rosario was awarded best oral presentation.

Symonds, E, K. Rosario, M. Breitbart. “Viruses found in sewage and their potential to indicate fecal pollution in coastal waters”. Oral presentation by E. Symonds. USF College of Marine Science Graduate Student Symposium; Saint Petersburg, FL. 4/08.

Goldsmith, D, R. Parsons, C. Carlson, M Breitbart. “Abundance, dynamics, and diversity of viruses in the northwestern Sargasso Sea”. Poster presentation by D. Goldsmith. USF College of Marine Science Graduate Student Symposium; Saint Petersburg, FL. 4/08.

**Breitbart, M.** “Environmental microbes: the good, the bad, and the ugly”. Invited seminar. Ave Maria University; Ave Maria, FL. 4/08

**Breitbart, M.** “Discovery of reservoirs and transmission mechanisms for plant viruses using metagenomic sequencing”. Invited seminar. NanoFocus and Oklahoma EPSCoR Annual State Conference; Oklahoma City, OK. 3/08.

Daniels, C, I. Berzins, C. Watson, M. Breitbart. “Coral mucus, microbes, and memory”. Oral

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- presentation by C. Daniels. Biomedical and Comparative Immunology Symposium; Miami, FL. 3/08.
- McDaniel, L, **M. Breitbart**, J.H. Paul. "Occurrence of phage integrase-like gene expression in Tampa Bay, FL. Oral presentation by L. McDaniel. 2008 Ocean Sciences Meeting; Orlando, FL. 2/08.
- Pause, K., C. Sun, P. Wilmes, B. Baker, L.R. Comolli, C. Pan, R. Hettich, N. VerBerkmoes, J.F. Banfield, **M. Breitbart**. "Purification and characterization of viruses from an acid mine drainage system". Poster presentation by K. Pause. Genomics: GTL Contractor-Grantee Workshop VI; Bethesda, MD. 2/08.
- Breitbart, M.** "Viral Metagenomics". Invited seminar. Florida Institute of Technology – Biological Sciences Reunion and Symposium; Melbourne, FL. 1/08.
- Breitbart, M.** "Viral Metagenomics". Invited seminar. Northern Arizona University; Flagstaff, AZ. 11/07.
- Symonds, E.M. and **M. Breitbart**. "Viruses found in sewage and their potential to indicate fecal pollution in coastal waters". Oral presentation by E. Symonds. Florida Branch of the American Society for Microbiology Annual Meeting; St. Petersburg, FL. 10/07.
- Rosario, K. and **M. Breitbart**. "Viruses in reclaimed water". Oral presentation by K. Rosario. Florida Branch of the American Society for Microbiology Annual Meeting; St. Petersburg, FL. 10/07. K. Rosario was awarded 3<sup>rd</sup> place best graduate student presentation.
- Daniels, C., I. Berzins, C. Watson, **M. Breitbart**. "Microbial profiling for coral restoration". Oral presentation by C. Daniels. Florida Branch of the American Society for Microbiology Annual Meeting; St. Petersburg, FL. 10/07.
- Ng, F.F., C. Manire, W.K. Suedmeyer, **M. Breitbart**. "Novel viruses discovered in sea turtle fibropapilloma and sea lion lung tissue using virus purification and shotgun sequencing". Oral presentation by F.F. Ng. Florida Branch of the American Society for Microbiology Annual Meeting; St. Petersburg, FL. 10/07.
- Breitbart, M.** "Metagenomic Sequencing of Environmental Viral Communities". Invited seminar. University of Central Florida, Biology Department; Orlando, FL. 9/07.
- Breitbart, M.** "Viral metagenomics – Exploring the diversity of the most abundant biological entities on the planet". Invited seminar. University of Florida, Microbiology and Cell Science; Gainesville, FL. 9/07.
- Breitbart, M.** "Viruses in human feces". Invited guest lecture for Plant Virology Course; University of Florida Department of Plant Pathology; Gainesville, FL. 9/07.
- Breitbart, M.** "Viral metagenomics – insights into ecology". Society for General Microbiology: 161<sup>st</sup> Meeting; Edinburgh, Scotland. 9/07.
- Breitbart, M.**, D Hollander, A Hoare, J Siefert, M Haynes, R Edwards, F Rohwer, V Souza. "The role of microbes in the precipitation of microbialites in Cuatro Ciénegas, Mexico: A genomic and stable isotopic perspective". Second meeting of Cuatrociénegas Researchers; Cuatro Ciénegas, Mexico. 8/07.
- Breitbart, M.** "Environmental single-stranded DNA phage". 17<sup>th</sup> Evergreen International Phage Biology Meeting; Evergreen, Washington. 8/07.

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- Breitbart, M.** “Metagenomics and its applications”. 17<sup>th</sup> Evergreen International Phage Biology Meeting; Evergreen, Washington. 8/07.
- Breitbart, M.** “Metagenomics of soil viruses”. Invited speaker. Delaware Biotechnology Institute Soil Metagenome Annotation Jamboree; Newark, DE. 8/07.
- Breitbart, M.** “Marine viral diversity and ecology”. Invited guest lecture for summer course in Microbial Oceanography at the Bermuda Institute for Ocean Science; Bermuda. 7/07.
- Ng, FF, C Manire, M Breitbart. “Identification of novel pathogenic viruses by shotgun sequencing”. Poster presentation by FF Ng. International Association for Aquatic Animal Medicine; Orlando, Florida. 5/07. (1<sup>st</sup> place in poster competition)
- Breitbart, M.** “Diversity and biogeography of marine viruses”. Invited oral presentation. Small matters: microbes and their role in conservation. The American Museum of Natural History Center for Biodiversity and Conservation’s Twelfth Annual Symposium; New York, NY. 4/07.
- Daniels, C., I. Berzins, M. Breitbart. “From culture to transplantation: microbial profiling for coral reef restoration”. Poster presentation by C. Daniels. The American Museum of Natural History Center for Biodiversity and Conservation’s Twelfth Annual Symposium; New York, NY. 4/07.
- Breitbart, M.** “Metagenomic analyses of uncultured viral communities – insights into ecology”. Invited seminar. University of Miami Rosentiel School of Marine and Atmospheric Science; Miami, FL. 4/07.
- Breitbart, M.** “Marine viral diversity and ecology”. Invited guest lecture for Marine Microbiology Course; University of Miami Rosentiel School of Marine and Atmospheric Science; Miami, FL. 4/07.
- Breitbart, M.** “Molecular approaches to understanding bacteria and viruses in the environment”. Bridge to the Doctorate Invited Seminar; Saint Petersburg, Florida. 3/07.
- Symonds, E. and M. Breitbart. “The diversity and distribution of pathogenic viruses in the Florida Keys”. Poster presentation by E Symonds. 3<sup>rd</sup> Annual USF Interdisciplinary Graduate Research Symposium; Tampa, FL. 3/07.
- Daniels, C. and M. Breitbart. “From culture to transplantation: microbial profiling for coral reef restoration”. Poster presentation by C. Daniels. 3<sup>rd</sup> Annual USF Interdisciplinary Graduate Research Symposium; Tampa, FL. 3/07.
- Rosario, K. and M. Breitbart. “Characterization of viruses in reclaimed water”. Poster presentation by K. Rosario. 3<sup>rd</sup> Annual USF Interdisciplinary Graduate Research Symposium; Tampa, FL. 3/07.
- Ng, FF, C Manire, J St Leger, M Breitbart. “Identification of novel pathogenic viruses by shotgun sequencing: experiments on the fibropapilloma-associated turtle herpesvirus and a novel eel virus”. Poster presentation by FF Ng. 3<sup>rd</sup> Annual USF Interdisciplinary Graduate Research Symposium; Tampa, FL. 3/07.
- Breitbart, M.** “Molecular approaches to understanding the role of viruses in the oceans and their effect on ocean life”. Tampa Bay Technology Forum; St. Petersburg, FL. 3/07.
- Breitbart, M.** “From beautiful beaches to baby butts – metagenomic analyses of viral communities”. Invited oral presentation. Les Treilles meeting on “The evolution,

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- diversity and ecology of the dark matter of the biosphere: bacteriophages”; Les Treilles, France. 3/07.
- McDaniel, L, JH Paul, **M Breitbart**. “Occurrence of phage integrase-like genes in Tampa Bay”. Oral presentation by L. McDaniel. Aquatic Sciences Meeting - American Society for Limnology and Oceanography; Santa Fe, NM. 2/07.
- Angly, FE, B Felts, **M Breitbart**, P Salamon, RA Edwards, C Carlson, AM Chan, M Haynes, S Kelley, H Liu, J Mahaffy, JE Mueller, J Nulton, R Olson, R Parsons, S Rayhawk, CA Suttle, F Rohwer. “The marine virome of four oceanic regions”. Oral presentation by F. Angly. Aquatic Sciences Meeting - American Society for Limnology and Oceanography; Santa Fe, NM. 2/07.
- Breitbart, M**. “Metagenomic analysis of bacteria and viruses associated with living microbialites”. Invited oral presentation. Cuatrociénegas, Mexico. 2/07.
- Rosario, K and **M. Breitbart**. “Characterization of viruses in reclaimed water”. Oral presentation by K. Rosario. 14<sup>th</sup> Annual Florida-Georgia Louis Stokes Alliance for Minority Participation (FGLSAMP) Expo; Tampa, FL. 2/07.
- Breitbart, M**. “Metagenomics of uncultured viral communities”. Invited seminar. Florida Institute of Technology Biology Department; Melbourne, FL. 10/06.
- Breitbart, M**. “Metagenomics of uncultured viral communities”. Invited seminar. Florida International University Biology Department; Miami, FL. 10/06.
- Symonds, EM, **M Breitbart**. “Diversity and distribution of pathogenic viruses in the Florida Keys”. Oral presentation by EM Symonds. University of South Florida College of Marine Science Graduate Student Symposium; Saint Petersburg, FL. 10/06.
- Ng, FF, **M Breitbart**. “Identification of novel pathogenic viruses by shotgun sequencing”. Oral presentation by FF Ng. University of South Florida College of Marine Science Graduate Student Symposium; Saint Petersburg, FL. 10/06.
- Breitbart, M**. “Viruses and lil’ tummies”. ASM Microbe World radio interview. 9/06.  
<http://www.flpradio.com/microbeworld/audio/060904-060929/060915.mp3>
- Breitbart, M**. “Diversity and distribution of uncultured viruses”. Invited seminar. University of Florida Department of Plant Pathology; Gainesville, FL. 9/06.
- Breitbart, M**. “Plant viruses in human feces”. Invited guest lecture for Plant Virology Course; University of Florida Department of Plant Pathology; Gainesville, FL. 9/06.
- Breitbart, M**. “Metagenomics of human fecal viruses”. Invited seminar. University of Florida Archie Carr Sea Turtle Center; Gainesville, FL. 9/06.
- Breitbart, M**, M Haynes, R Edwards, V Souza, J Siefert, F Rohwer. “Metagenomic analysis of viruses associated with living stromatolites from the Cuatrociénegas basin; Coahuila, Mexico”. Oral presentation. 11<sup>th</sup> International Symposium on Microbial Ecology; Vienna, Austria. 8/06.
- Breitbart, M**. “Microbial ecology of Cuatro Ciénegas”. Invited oral presentation. Cuatro Ciénegas, Mexico Town Meeting. 8/06.
- Breitbart, M**. “The global marine virome – exploring the largest reservoir of unknown sequence space on the planet”. Invited oral presentation. Origin of Life Gordon Research Conference. Lewiston, ME. 7/06.

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- Breitbart, M**, V Casas, B Felts, J Mahaffy, J Miyake, J Nulton, P Salamon, E Sano, T Zhang, Y Ruan, F Rohwer. “Metagenomic analyses of uncultured environmental viral communities”. Invited oral presentation. 8<sup>th</sup> Annual Biodetection Technologies Meeting. Washington, DC. 6/06.
- Breitbart, M**, M Haynes, R Edwards, B Felts, J Mahaffy, J Nulton, P Salamon, F Rohwer. “Viral diversity and dynamics in a newborn’s gut”. Poster presentation. American Society for Microbiology General Meeting; Orlando, FL. 5/06.
- Casas, V, J Miyake, H Balsley, J Roark, S Leeds, S Telles, I Zurita, **M Breitbart**, D Bartlett, F Azam, F Rohwer. “Widespread occurrence of phage-encoded exotoxin genes in terrestrial and aquatic environments”. Poster presentation by V Casas. American Society for Microbiology General Meeting; Orlando, FL. 5/06.
- Breitbart, M**, R Edwards, B Felts, P Salamon, F Angly, C Carlson, A Chan, M Haynes, S Kelley, J Mahaffy, J Mueller, J Nulton, R Olson, R Parsons, S Rayhawk, C Suttle, F Rohwer. “The global marine virome”. Oral presentation. Florida Branch of the American Society for Microbiology; Cocoa Beach, FL. 4/06.
- Breitbart, M**. “Metagenomic analyses of uncultured viral communities – insights into ecology”. Invited seminar. University of South Florida Biology Department; Tampa, FL. 3/06.
- Breitbart, M**, R Edwards, F Rohwer. “Ecological insights from marine viral sequences”. Poster presentation. Ocean Sciences Meeting – American Society for Limnology and Oceanography; Honolulu, HI. 2/06.