

The NSF will fund Dr. Martin Schuster to study mechanisms of cooperation and conflict in bacteria. The evolution of cooperation remains a central paradox in biology: Why should an individual carry out a costly cooperative behavior for the benefit of others? Cooperative iron acquisition via diffusible siderophores offers a tractable bacterial model for mechanistic inquiry. It is a widespread and vitally important process in many microbes, with implications in soil ecology, agriculture, and medicine. Intriguingly, some bacteria have the ability to steal siderophores from other bacteria, thus saving on production costs. We plan to find out how and why cooperative iron acquisition is nevertheless maintained.



Follow [Dr. Rebecca Vega Thurber's](#) travels as she embarks on a 4 week voyage to conduct [coral research from Easter Island to Tahiti](#). Link is live and will update accordingly!



[HERPES OUTBREAK, OTHER MARINE VIRUSES LINKED TO CORAL BLEACHING EVENT](#), *Dr. Rebecca Vega-Thurber*: A study at Oregon State University has concluded that significant outbreaks of viruses may be associated with coral bleaching events, especially as a result of multiple environmental stresses.



[Global Coral Microbiome Project: Moorea or The Al Gore of Polynesia](#) by D. Baker: Moorea is a rare refuge where [Dr. Rebecca Vega-Thurber](#) director of the Global Coral Microbiome Project studies the island's coral reefs*"We're really in a race against the clock to figure out what we can do to preserve some of these important habitats," Please click on title above for full article and research details.*

Ryan McMinds sits on the gunwale of the rocking boat. The nose of the Boston Whaler dips into the trough of the wave for a stomach-dropping second. The crew and divers now face a wall of water topped by the frothing curl of a break. They ride up so steeply that the boat seems about to topple backward. ...This reef called Shib Nazar is located off the Red Sea coast of Saudi Arabia, and it's the first structure these waves have met after rolling across hundreds of kilometers of open water. No wonder they're angry. [Read More.....](#)





St. George's, Bermuda: \$6M Grant Catalyzes New Study of OCEAN MICROBES at BIOS

An anonymous donor has awarded BIOS \$6 million to support research on microbial communities of the Sargasso Sea at the [Bermuda Atlantic Time-series Study \(BATS\)](#) site. [OSU Professor Steve Giovannoni](#) will coordinate genomic sequencing efforts and bioinformatic data processing.

https://www.researchgate.net/publication/308958721_Nanophyetus_salmincola_vector_of_the_salmon_poisoning_disease_agent_Neorickettsia_helminthoeca_harbors_a_second_pathogenic_Neorickettsia_species;
<https://www.sciencedaily.com/releases/2016/11/161103152130.htm>



[Dr. Kim Halsey](#) and [Dr. Stephen Giovannoni](#), have returned from the first research cruise of NASA's [North Atlantic Aerosols and Marine Ecosystems Study \(NAAMES\)](#). This five-year, interdisciplinary project examines [North Atlantic Plankton Blooms](#) and their impacts on atmospheric aerosols, clouds and climate.



Dr. Stephen Greiman (Georgia Southern U.) and Dr. Michael Kent (Oregon State U.)

et al., have identified another bacterium similar to *salmon poisoning* in dogs. This research may change how dogs are treated for salmon poisoning. Further information including [news releases](#) and [videos](#) may be accessed [here](#).

- Photo of dogs playing in water: <https://flic.kr/p/NNCccu>
 - Michael Kent video interview, downloadable high resolution, with slates: <http://bit.ly/2flkfm9>
 - Michael Kent lab b-roll video footage, downloadable high resolution: <http://bit.ly/2eE39le>
 - Michael Kent audio interview, downloadable for radio: <http://bit.ly/2eYTY1Y>
 - Interview questions with timed responses: <http://bit.ly/2es8dM1>
 - YouTube version, full interview without slates, <http://bit.ly/2e60DYA>
 - You tube version as edited story: https://youtu.be/fZuNDP_wzZs
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Dr. Thomas Sharpton's new study on triclosans in zebrafish suggests that it interferes with the community of bacteria that makes up our microbiome. Read Full Articles: [Time Magazine](#): The Case Against Antibacterial Soap is Getting Stronger; [Metro](#): Could Using Toothpaste Damage Your Health?; [Xinhua](#): Common Antimicrobial Agent Disrupts Gut Bacteria; [Infection Control Today](#): Common Antimicrobial Agent Rapidly Disrupts Gut Bacteria. Please click here for more detailed [RESEARCH RESULTS](#).