



<http://www.spaceflorida.gov/iss-research-competition>

Winning Teams

SpaceX CRS-3		
<p>HEART FLIES</p> <p>USA</p>	 <p>Wexner Medical Center</p>	<p>HEART FLIES: Heart Effect Analysis Research Team conducting Fly Investigations and Experiments in Spaceflight – a medical experiment to understand the effects of space travel on astronaut cardiovascular systems</p> <p>Team Members: Dr. Peter H. U. Lee, The Ohio State University Wexner Medical Center and Stanford University, USA; Dr. Sharmila Bhattacharya, NASA Ames Research Center, USA; Dr. Rolf Bodmer and Dr. Karen Ocorr, Sanford-Burnham Medical Research Institute, USA</p> <p>Website: Division of Cardiac Surgery, The Ohio State University Wexner Medical Center Website: NASA Ames Research Center Website: Sanford-Burnham Medical Research Institute</p>
<p>Project MERCURI</p> <p><i>Microbial Ecology Research Combining Citizen & University Researchers on ISS</i></p>		<p>Comparison of the Growth Rate & DNA/RNA Quantitation of Microgravity Exposed Microbial Community Samples Collected by the Astronauts Onboard the International Space Station And by Citizen Scientists & Student Scientists at Public Venues</p> <p>Team Members: Dr. Jonathan Eisen and Mr. Russell Neches, University of California-Davis, USA; Ms. Wendy Brown, University of California-Davis and SciStarter.com, USA; Ms. Darlene Cavalier and Mr. Mark Severance, SciStarter.com and ScienceCheerleader.com, USA; and Summer Williams, ScienceCheerleader.com, USA</p> <p><i>"If we want to engage the public in the microbial ecology of buildings, we need to find interesting buildings to work on. The International Space Station makes an interesting comparison with buildings on Earth for many reasons. Space Florida's ISS Research Competition is providing access to a unique venue to further this research." Dr. Jonathan Eisen, Professor, University of California Davis, Principle Investigator</i></p> <p><i>"This opportunity enables SciStarter and Science Cheerleader to cross-pollinate and activate related but distinct audiences in a national effort to engage the public in scientific research. We are thrilled to collaborate with Dr. Eisen and his team at UC Davis and we are grateful to Space Florida for making this possible." Darlene Cavalier, Founder, SciStarter and Science Cheerleader, Co-Principle Investigator</i></p> <p><i>"Space Florida's ISS Research Competition and NanoRacks are enabling broad participation in the ISS science mission by citizen scientists and student scientists. This level of public "hands on" engagement in space experiments was simply not possible prior to the ISS National Laboratory, for which Space Florida and NanoRacks have provided pioneering leadership." Mark Severance, "Space Guy", SciStarter and Science Cheerleader, Co-Principle Investigator</i></p> <p>Website: http://phylogenomics.wordpress.com Website: http://www.microbe.net Website: http://www.scistarter.com Website: http://www.sciencecheerleader.com Blog: http://phylogenomics.blogspot.com Blog: http://scistarter.com/blog Twitter: @phylogenomics @SciCheer @SciStarter You Tube: sciencecheerleader</p> <p>Media Contact: Claire LaBeaux claire@prclaire.com 925.337.0244</p>



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SpaceX CRS-4		
<p>SABOL</p> <p>USA</p>		<p>Self-Assembly in Biology and the Origin of Life (SABOL) (A study into Alzheimer's)</p> <p>Team Members: Drs. Sam Durrance, Daniel Kirk, and Hector Gutierrez, Florida Institute of Technology, Florida , USA</p> <p><i>"Through our project we seek to develop an improved understanding of the origin of life on our planet, increase our understanding of Alzheimer's disease and provide an opportunity to apply this new understanding for the betterment of humanity."</i></p> <p>Website: Florida Institute of Technology</p>
<p>SyNRGE³</p> <p>Ireland & USA</p>		<p>Symbiotic Nodulation in a Reduced Gravity Environment (SyNRGE III)</p> <p>Team Members: Dr. Gary Stutte, Limerick Institute of Technology, Ireland and Dr. Michael Roberts, CSS-Dynamac, Florida, USA</p> <p><i>"The opportunity afforded by the ISSRC to study plant-microbe interactions on the International Space Station is a great privilege for everyone at LIT and CSS-Dynamac. Being one of only eight research teams selected for this unique mission is validation for the interdisciplinary focus of our research program, our support of STEM education, and our shared goal to improve life on Earth. We look forward to developing a synergistic partnership with Space Florida and NanoRacks to improve crop yields by increasing our understanding of beneficial bacteria and plants."</i></p> <p>www.lit.ie/SyNRGE3 www.lit.ie www.css-dynamac.com www.linkedin.com/pub/gary-stutte/b/146/425 www.linkedin.com/pub/michael-roberts/2b/711/2b6 https://twitter.com/LimerickIT</p> <p>SyNRGE³ Testing at the Space Life Science Lab, Kennedy Space Center, Florida</p>
<p>EGAHEP</p> <p>Germany</p>		<p>Egypt Against Hepatitis C Virus</p> <p>Team Members: Prof. Ulrike Protzer, M.D., head of Institute of Virology, Technical University of Munich (TUM), M. Sc. Hanaa Gaber, Technical University of Munich (TUM) and M. Sc. Akram Amin Abdellatif, German Aerospace Center (DLR)</p> <p><i>"Our work addresses the research of Hepatitis C virus vaccine. The Hepatitis C is considered a major problem in our Egyptian society and we as an Egyptian team are willing to use all our knowledge and strength in this national fight. We thank ISSRC which will help us to move many steps forward for our goal by achieving space developed Hepatitis C protein crystals."</i></p> <p>EGAHEP Mission considered the first Egyptian mission on the ISS.</p> <p>Website: German Aerospace Center Website: Technischen Universität München (TUM) Website: TUM-Institute of Virology Twitter: @AkramAminAhmed Twitter: #EGAHEP LinkedIn: Akram Amin Abdellatif</p>
<p>micro-gRx</p> <p>USA</p>		<p>Fluorescent Polarization in Microgravity: Validation of the M5 Microplate Reader Aboard the ISS</p> <p>Team Members: Dr. Siobhan Malany and Dr. Steve Vasile, Sanford-Burnham Medical Research Institute at Lake Nona, Florida, USA</p> <p><i>"Our payload will measure fluorescence to gauge changes in the speed of molecular rotation of an antibody binding to a vitamin in microgravity using a microtiter plate. The ISSRC has given us a great opportunity to access a plate reader on the ISS, along with payload space aboard a SpaceX flight. In the future we hope to address more complicated experiments based on cellular processes in multiwell formats."</i></p> <p>Website: micro-gRx Twitter: @micro_gRx Facebook: micro-gRx</p>



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<p>ISS Nanorocks</p> <p>USA</p>	 <p>The logo for the NANOROCKS experiment. It is a circular emblem with a dark, starry background. The word "NANOROCKS" is written across the center in a stylized, metallic font. The words "UNIVERSITY OF CENTRAL FLORIDA" are written around the bottom edge of the circle.</p>	<p>Collisional Evolution of Particles and Aggregates in Microgravity</p> <p>Team Members: Dr. Josh Colwell, Dr. Adrienne Dove, and Dr. Todd Bradley, University of Central Florida, Florida, USA</p> <p><i>"The gravity of Earth swamps the kind of collisions of dust particles we are studying, making it difficult to get good data on the ground and even on parabolic flights. It's exciting to have this opportunity through the ISSRC to do this experiment on the space station where we don't have the same gravitational issues and we can observe these collisions over time, giving us information we cannot get on any other platform."</i></p> <p>Website: Center for Microgravity Research and Education Facebook: The Colwell Research Group YouTube: UCFMicrogravity</p>