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NEWS RELEASE

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SpaceX CRS-12 Delivers Start-Up's Microgravity Research Facility to International Space Station *Space Tango's Available Customer Research Capacity Doubles*

CAPE CANAVERAL, Fla. - Space Tango, Inc. launches a second TangoLab facility on August 14th at approximately 12:31 PM EDT aboard a SpaceX Falcon 9 for NASA's Commercial Resupply Service-12 (CRS-12) mission. The additional facility doubles the company's available capacity on the International Space Station (ISS). The facility, accompanied by twelve payloads, will be installed on the ISS and controlled autonomously for the duration of the approximate 28-day mission from Space Tango's headquarters in Lexington, KY.

The TangoLab-1 facility, installed on the ISS in August 2016, allows Space Tango clients and partners to build high-performance and reliable experiments that can be designed and tested in microgravity. The addition of the second facility on the ISS is instrumental in expanding Space Tango's commercialization pathways.

"The installation of TangoLab-2 not only doubles the capacity of that product line but allows longer duration and more complex configurations," explained Space Tango CEO Twyman Clements. "This is required for the ever more complex R&D and pilot manufacturing Space Tango's customers are undertaking."

Space Tango provides exclusive microgravity experimentation services to its increasing portfolio of customers and partners. For the CRS-12 mission, the two TangoLab facilities will house and

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control twelve research payloads that include a wide range of engineering, life science, exomedicine and research and design (R&D).

“These payloads could unlock advancements in plant biotechnology, long-term radiation shielding, carbon dioxide regulation, and bacterial antibiotic sensitivity that only occur within a microgravity environment,” described TangoLab Program Manager Gentry Barnett.

The Dragon capsule carrying Space Tango payloads and TangoLab facility are expected to arrive at the International Space Station the morning of Wednesday, August 16th. Space Tango successfully continues to commercialize microgravity as a result of continued support from the Center for Advancement of Science in Space (CASIS) and the National Aeronautics and Space Administration (NASA).

View the full hosted launch video [here](#) from SpaceX.

PAYLOADS

> Evaluation of Radiation Deterrent Materials

Passive radiation-shielding materials will be evaluated based on density, cost, and on-orbit radiation deterrent effect to determine the most advantageous material for long-term space travel. The Higher Orbits Foundation and the 2016 Andromeda Award Winning Team DASA from Deerfield High School in Deerfield, IL lead this investigation.

> Cactus-Mediated Carbon Dioxide Removal in Microgravity

Oxygen output and carbon dioxide intake of a cactus sempervivum will be measured and evaluated to provide information on how to improve the efficiency of carbon dioxide regulation of long-term space travel. The International Space School Educational Trust (ISSET) in partnership with King’s College in London lead this endeavor.

> Activity of Mutated Drosophila in Microgravity

Visible differences in flight between normal and mutant Drosophila flies will be monitored to identify if there are any positive differences in movement by placing the flies in a microgravity environment. The International Space School Educational Trust (ISSET) in partnership with King’s College in London lead this endeavor.

> Seed Germination and Plant Growth in Microgravity

A series of four payloads will explore the process of seed germination and initial plant growth of three different plant species. The enclosed payloads will simulate all environmental conditions necessary for proper growth. Successful implementation could uncover novel genetic expressions, plant morphologies, and biotechnologies relating to the specific plants.

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> **Microgravity Effects on Antibiotic Sensitivity of *Escherichia coli***

Bacteria growth of *E. coli* in the presence of two antibiotics will be evaluated to investigate if microgravity could affect cellular and/or systemic responses in comparison to terrestrial control models.

> **Space Tango Internal Experiments**

The CRS-12 mission includes three additional payloads whose purpose is internal to the Space Tango team with the intention of substantial technical and/or scientific advancement. Space Tango provides an work environment that encourages the pursuit of answers - on this planet and elsewhere.

ABOUT SPACE TANGO

Space Tango streamlines and simplifies the unique environment that microgravity offers to design, build, and operate integrated systems that facilitate microgravity R&D and manufacturing focused for application on Earth. Space Tango allows users to focus on their work while they manage the complexities of traveling to and operating in microgravity. They are committed to the standardization of processes to provide a seamless experience. Space Tango is developing an entire pipeline of products to increase the variety, volume and ease of using this new frontier. They strive to diversify the use of microgravity as we invite industries of any kind to reach beyond in hope of improving life on Earth.

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RESOURCES

Photos available upon request.

Official Website

<http://www.spacetango.com/>

Facebook

<https://www.facebook.com/spaceasaservice/>

Twitter

https://twitter.com/space_tango

Instagram

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Press Outreach

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