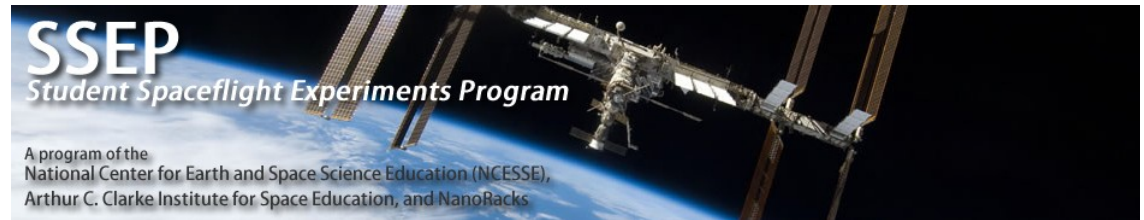


# SSEP Mission 9 to ISS Endeavor Experiments Payload Summary

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## 21 Experiments Comprising the SSEP Mission 9 to ISS Endeavor Payload

	Community	Experiment	Team	Grades	At Launch?
1	Calgary, Alberta, Canada	<i>Shells of glass capsules, covered with different substances reacting in regular water</i>	3 Co-PIs	9	
2	Vancouver, British Columbia, Canada	<i>Red Worm Composting In Microgravity</i>	5 Co-PIs	6-7	
3	Santa Monica, CA	<i>The Effect of Microgravity on Preservation of Spam Using Lemon Juice</i>	4 Co-PIs 1 Collaborator	8	
4	East Lyme, CT	<i>Will a biofilm form on a rat artery catheter in microgravity differently than in gravity?</i>	4 Co-PIs	6	X
5	Hillsborough County, FL	<i>Germination of Quinoa in Space</i>	4 Co-PIs	5	X
6	Boise, ID	<i>Living Water Filters: Triops in Microgravity</i>	4 Co-PIs 2 Co-Is	5	X
7	Potomac, MD	<i>Shewanella oneidensis and Iron Ions in Microgravity</i>	2 Co-PIs	10	
8	Fitchburg, MA	<i>Streptococcus mutans Production of Lactic Acid in Microgravity</i>	2 Co-PIs 2 Collaborators	10-11	
9	Traverse City, MI	<i>Growth of Blue-Green Algae in Space</i>	4 Co-PIs	10	X

10	Jersey City, NJ	<i>The Effects of Microgravity on Muscle Tissue Regeneration</i>	4 Co-PIs	12	
11	Springfield, NJ	<i>The Effects of Microgravity On Grass Seeds' Growth</i>	3 Co-PIs 2 Co-Is	7	X
12	Buffalo-Niagara, NY	<i>Tuber Transport and Subsequent Terrestrial Growth</i>	1 PI 2 Co-Is	7-8	X
13	Eugene, OR	<i>SLIPS in Microgravity</i>	3 Co-PIs	8	
14	Columbia, SC	<i>The Effects of Microgravity on the Turbidity of a Non-Newtonian Fluid Mixture of Cornstarch and Water</i>	3 Co-PIs	9	
15	North Charleston, SC	<i>How does spaceflight affect the detachment of zinc whiskers?</i>	2 Co-PIs	11	X
16	Knox County, TN	<i>Testing the Effectiveness of Tobramycin and Dexamethasone Ophthalmic (Tobradex) on Staphylococcus Aureus Type of Bacterial Conjunctivitis in Microgravity</i>	9 Co-PIs	7-8	X
17	Bullard, TX	<i>Microgravity's Effects on Solanum tuberosum Resistance to Phytophthora infestans</i>	2 Co-PIs 2 Co-Is	9	
18	Burleson, TX	<i>Kidney Stone Conundrum</i>	3 Co-PIs	5	
19	Houston, TX	<i>pGLO Plasmid Transfer in Escherichia coli as a Means to Track Antibiotic Resistance in Microgravity</i>	2 Co-PIs 2 Co-Is	11	
20	McAllen, TX	<i>The Effects of Perchlorate on Plant Germination in Simulated Martian Conditions in Microgravity</i>	3 Co-PIs	11	
21	Bellevue, WA	<i>Arabidopsis thaliana germination in Martian soil simulant</i>	3 Co-PIs	7	X

**SpaceX CRS-10 Re-flight of SSEP Mission 7 Experiment due to on orbit operation anomaly.**

The following experiment was 1 of 24 SSEP Mission 7 experiments. This experiment is being re-flown due to an on orbit operation anomaly during its initial flight.

	<b>Community</b>	<b>Experiment</b>	<b>Team</b>	<b>Grades</b>	<b>At Launch?</b>
22	Santa Monica, CA	<i>The Effect of Microgravity on Paper Chromatography</i>	4 Co-PIs	8	

The Student Spaceflight Experiments Program [or SSEP] is a program of the National Center for Earth and Space Science Education (NCESS) in the U.S. and the Arthur C. Clarke Institute for Space Education internationally. It is enabled through a strategic partnership with DreamUp PBC and NanoRacks LLC, which are working with NASA under a Space Act Agreement as part of the utilization of the International Space Station as a National Laboratory.

SSEP is the first pre- college STEM education program that is both a U.S. national initiative and implemented as an on-orbit commercial space venture.