

SSEP Mission 7 to ISS Odyssey Experiments Payload Summary

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24 Experiments Comprising the SSEP Mission 7 to ISS Odyssey Payload

	Community	Experiment	Team	Grades	At Launch?	CASIS Supported
1	La Verne, CA	<i>Tardigrade Cryptobiotic Strategies vs. Microgravity</i>	3 Co-PIs 1 Co-I 1 Collaborator	12	X	X
2	Petaluma, CA	<i>At What Rate will Algae Reproduce in a Microgravitational Setting Versus on Earth?</i>	2 Co-PIs 4 Collaborators	12		X
3	Santa Monica, CA	<i>The Effect of Microgravity on Paper Chromatography</i>	4 Co-PIs	8		X
4	Littleton, CO	<i>Ladybugs in Space</i>	3 Co-PIs	5		No
5	Hartford, CT	<i>How Does Microgravity Affect the Production of Synthetic Insulin?</i>	4 Co-PIs	8	X	X
6	Bear, DE	<i>A Comparative Study of the Effects of Microgravity on Drosophila Melanogaster</i>	5 Co-PIs	9-10	X	X
7	Camden, DE	<i>Breakdown of Hydrogen Peroxide in Microgravity</i>	4 Co-PIs 7 Co-Is	9, 11-12		X
8	Hillsborough County, FL	<i>Operation Germination of Cottonseeds</i>	3 Co-PIs	5	X	X
9	Sioux City, IA	<i>Go Nuts in Space</i>	1 PI 2 Co-Is	9		X
10	Fitchburg, MA	<i>How is the Growth of the Bacteria Rhizobium radiobacter Affected by Microgravity?</i>	2 Co-PIs	11		X
11	Duluth, MN	<i>The Detriment of Microgravity on Xenopus Laevis</i>	3 Co-PIs	12		X
12	Brookhaven, MS	<i>Yeast as a Model Organism to Study COX-2 Enzyme Production in Microgravity</i>	2 Co-PIs	10		X
13	Kansas City, MO/KS	<i>Will Sunflower Seeds Grow in Microgravity?</i>	1 PI 2 Co-Is 2 Collaborators	6-7		X
14	Johnson County, NE	<i>Germinating Red Clover (Trifolium pratense L)</i>	1 Co-PI 1 Co-I 3 Collaborators	11-12	X	No
15	Pennsauken, NJ	<i>Staphylococcus Epidermidis In Microgravity</i>	3 Co-PIs 2 Collaborators	8		X
16	Somerset, NJ	<i>Evaporation Investigation</i>	3 Co-PIs	5	X	X

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17	West Fargo, ND	<i>How Does Rust Form Differently in a Microgravity Environment?</i>	3 Co-PIs 1 Collaborator	7		X
18	Grant County, OR	<i>Does Microgravity Affect Variation of the Protein Structure Created?</i>	5 Co-PIs	9		X
19	Erie, PA	<i>Using the Statocyst System to Investigate how the Vestibular System Would Provide Orientation and Balance to Living Organisms in Microgravity</i>	2 Co-PIs 1 Co-I 2 Collaborators	5-8	X	X
20	Knox County, TN	<i>Effects of Microgravity on the Efficacy of Ciprofloxacin on Escherichia Coli</i>	2 Co-PIs 2 Co-Is 2 Collaborators	7-8	X	X
21	Austin, TX	<i>The Growth of Heterotrophic Algae Neochloris oleoabundans in Microgravity</i>	4 Co-PIs	8		X
22	Burleson, TX	<i>What are the Effects of Hydrogel Polymers when Mixed with Water in Microgravity vs. on Earth?</i>	4 Co-PIs	5		X
23	Pharr, TX	<i>What is the Effect of Microgravity on the Cell Division of an Onion Root?</i>	2 Co-PIs	5		X
24	San Antonio, TX	<i>The Effects of Microgravity on the Rate of Plant Growth</i>	2 Co-PIs	12		X

SpaceX CRS-7 Re-flight of SSEP Mission 6 Experiment lost in Orbital Sciences 3 explosion, October 28, 2014

The following experiment was 1 of 18 SSEP Mission 6 experiments lost with the Orb-3 explosion. This is the only Mission 6 experiment not yet re-flown. All other Mission 6 experiments were re-flown on SpaceX CRS-5 on January 10, 2015.

	Community	Experiment	Team	Grades	At Launch?	CASIS Supported
25	North Charleston, SC	<i>How Does Spaceflight Affect the Formation of Tin Whiskers on Lead-free Solder?</i>	2 Co-PIs 1 Collaborator	9, 11	X	X