

Expedition 2 Payloads

| Facility/Experiment | Mission Information | Duration | Location on ISS | Research Area |
|--|----------------------------|---|--|---|
| <u>Active Rack Isolation System</u> | Mission 6A STS-100 | 15 years | Express Rack 2 Destiny module | |
| <u>Express Racks 1 & 2</u> | Mission 6A STS-100 | 15 years | Destiny module | <u>Multidisciplinary</u> |
| <u>Human Research Facility</u> | Mission 5A.1 STS-102 | 15 years | Destiny module | <u>Human Life Sciences</u> |
| <u>Payload Equipment Restraint System</u> | Mission 5A.1 STS-102 | 15 years | Destiny module | |
| <u>ADVANCED ASTROCULTURE™ (ADVASC)</u> | Mission 6A STS-100 | 3 months (Return on Mission STS-105, 7A.1) | Express Rack 1 Destiny module | Space Product Development – Commercial biotechnology |
| <u>Bonner Ball Neutron Detector Radiation</u> | Mission 5A.1 STS-102 | 8 months | Destiny module | Human Life Sciences – Radiation |
| <u>Commercial Generic Bioprocessing Apparatus (CGBA)</u> | Mission 6A STS-100 | 3 months (Return on Mission STS-105, 7A.1) | Express Rack 1 Destiny module | Space Product Development – Biotechnology |
| <u>Commercial Protein Crystal Growth – High Density (CPCG-H)</u> | Mission 6A STS-100 | 3 months (Return on Mission STS-105, 7A.1) | Express Rack 1 Destiny module | Space Product Development – Protein crystallization |
| <u>Crew Earth Observation</u> | Mission 4A STS-97 | 15 years | Destiny and Zvezda modules | Space Flight Utilization – Earth observation |
| <u>Dosimetric Mapping (DOSMAP)</u> | Mission 5A.1 STS-102 | 4 months | Destiny module | Human Life Sciences – Radiation |
| <u>Earth Knowledge Acquired by Middle Schools (EarthKAM)</u> | Mission 5A STS-98 | 15 years | Destiny module window | Space Flight Utilization – Earth observation and outreach |
| <u>H-Reflex</u> | Mission 5A.1 STS-102 | 4 months (assigned for Exp. 2-4) | Human Research Facility Rack Destiny module | Human Life Sciences – Neurovestibular |
| <u>Interactions</u> | Mission 5A.1 STS-102 | 2 years, 4 months (assigned to Exp. 2-6) | Human Research Facility Rack Destiny module | Human Life Sciences – Psychosocial |
| <u>ARIS-ISS Characterization</u> | Mission 6A STS-100 | 7 months (return on | Active Rack Isolation | Space Flight Utilization – |

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|---|-----------------------------------|--|---|---|
| <u>Experiment (ARIS-ICE)</u> | | Mission UF1, STS-105) | System | Earth Observation and Outreach |
| <u>Microgravity Acceleration Measurement System (MAMS)</u> | Mission 6A STS-100 | 15 years | Express Rack 1 Destiny module | Physical Sciences– Environmental |
| <u>Phantom Torso</u> | Mission 6A STS-100 | 3 months (Return on Mission STS-105, 7A.1) | Destiny module | Human Life Sciences – Radiation |
| <u>Physics of Colloids in Space (EXPPCS)</u> | Mission 6A STS-100 | 1 year (Return on Mission UF2 STS-111) | Express Rack 2 Destiny module | Physical Sciences – Fluids science |
| <u>Protein Crystal Growth – Biotechnology Ambient Generic (PCG-BAG)</u> | Mission 7A STS-104 | 2 months Return on Mission STS-105, 7A.1) | Destiny module Stowage space | Physical Sciences – Protein crystallization |
| <u>Protein Crystal Growth – Single Locker Thermal Enclosure System (PCG-STES)</u> | Mission 6A STS-100 and 7A STS-104 | 2 months (Return on Mission STS-105, 7A.1) | Express Rack 1 Destiny module | Physical Sciences – Protein crystallization |
| <u>Space Acceleration Measurement System II (SAMS-II)</u> | Mission 6A STS-100 | 15 years | Destiny module | Physical Sciences – Environmental |
| <u>Sub-regional Assessment of Bone Loss in Axial Skeleton (Subregional Bone)</u> | Mission 5A.1 STS-102 | 2 years, 4 months (assigned to Exp. 2-6) | N/A – Preflight and postflight data collection only | Human Life Sciences – Bone & muscle |