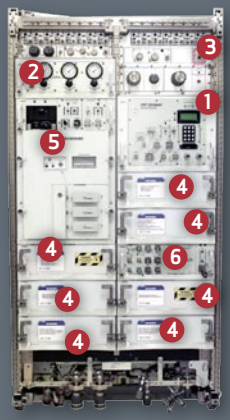
US Laboratory Destiny Research Facilities

U.S. Lab after deployment. The Pressurized Mating Adapter (PMA) is located on the forward berthing ring.

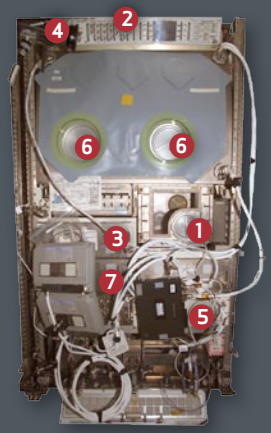
The **Human Research Facility (HRF)** supports a variety of life sciences experiments. It includes equipment for lung function tests, ultrasound equipment to image the heart, and many other types of computers and medical equipment.



1 Gas Analyzer System for Metabolic Analysis Physiology (GASMAP)
2 GASMAP Gas Calibration Module (GCM)
3 Power Switch and Data Interconnects
4 Stowage Drawers
5 Ultrasound Imaging System
6 Workstation Interface

John Phillips conducts Foot Reaction Forces (FOOT) experiment on HRF rack.

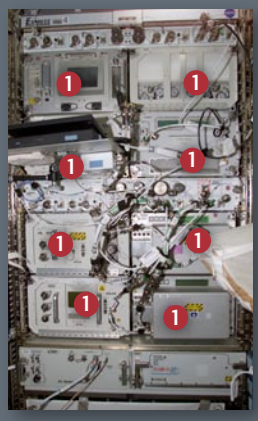
The **Microgravity Science Glovebox** provides a sealed environment for conducting science and technology experiments. It has a large front window and built-in gloves, data storage and recording capabilities, and an independent air circulation and filtration system.



1 Airlock
2 Control and Monitoring Panel
3 Power Distribution Box
4 Power Switches
5 Remote Power Distribution
6 Work Volume Armholes
7 Video

William McArthur uses the Microgravity Science Glovebox.

The five **EXPRESS Racks** provide sub-rack-sized experiments with standard utilities such as power, data, cooling, fluids, and gases. The racks stay in orbit, while experiments are changed as needed.



1 Stowage or Payload Locations

The **Minus Eighty-Degree Laboratory Freezer for ISS (MELFI)** provides refrigerated storage and fast-freezing of biological and life science samples. It can hold up to 300 L of samples ranging in temperature from 4 °C to a low of -80 °C.

1 Refrigerated/Frozen Storage Dewars