



OVERVIEW:

- The NASA Biological Institutional Scientific Collection (NBISC) hosts over 90,000 flight and ground analog biospecimens.
- Biospecimens are searchable and available for request through the NASA Life Sciences Portal (NLSP) public website.

Goals:

- maximize the scientific return of unique biospecimens from spaceflight investigations.
- encourage broader participation of space biology-related research within the scientific research community.

WHICH TYPES OF BIOSPECIMENS **AND DATA?**

- Biospecimens from organisms flown on Shuttle, ISS and ground spaceflight-model experiments.
- Tissue types: musculoskeletal, neurosensory, reproductive, respiratory, circulatory, and digestive systems primarily from rodents.
- Samples are fixative dependent and are stored at -80° C, -20° C +4° C or ambient.
- Detailed metadata are available for all samples.
- Tissues have been used for a wide range of analyses, including histology, genomics, and transcriptomics.
- Recent acquisitions from HRP Space Radiation–funded experiments include ~50,000 rodent tissues exposed to HZE particles and high-LET radiation.
- Future expansion will include a broad range of microbial isolates from spaceflight studies.

REQUESTING BIOSPECIMENS:

- Biospecimens are requested at the NASA Life Sciences Portal (NLSP) via an online biospecimen request.
- Availability of requested biospecimens are confirmed by NBISC and instructions relayed to the requestor for a short proposal submission.



• Proposals are assessed by merit, scientific significance, and innovation of proposed research.





User's Guide for Requesting NASA _ife Sciences Data and Biospecimens



The Next Generation of the Life Sciences Data Archi Human, Animal and Plant Research

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