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Fundamental space biology is NASA's agency-wide program for the study of fundamental biological processes through space flight as well as ground-based research that supports the NASA mission. Proposals are sought for research that:

1. Effectively make use of microgravity and other characteristics of space environments to enhance our understanding of fundamental biological processes;

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Fundamentals of Space Biology

Space Biology research helps us understand the fundamentals of plant growth by examining the very building blocks of plant life down

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to the molecular level: transcriptomics, genomics, proteomics, and metabolomics.

Space Biology Program | Science Mission Directorate

NASA Fundamental Space Biology: Figure 1: Fundamental biology is the foundation on which to build solutions to applied problems. Cell, Microbial and Molecular Biology Cell based science in microgravity serves many areas of basic and applied research for space exploration and for Earth applications. Use of cells for investigations in

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NASA Fundamental Space Biology Science Plan

NASA's Space Biology Program will fund 26 proposals to investigate how microbes, cells, plants and animals respond to changes in gravity. The research will be conducted aboard the International Space Station.

NASA Selects 26 Space Biology Research Proposals | NASA

The major goals of the Fundamental Space Biology Research Division are as follows: • Use gravity, microgravity, and the other characteristics of the space environment to enhance our understanding of fundamental

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- Develop the fundamental biological knowledge to enable a long-duration human presence in space
- Support other NASA activities related to biology

fundamental space biology - NASA

The first chapters present an overview of the major focuses of space research in biology, as well as the history and the list of animals and plants that have flown in space to date. The following chapters describe the main results of space studies in gravitational biology, developmental biology,

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Clément, K. Slenzka This book is intended as an overview at an undergraduate or early university level and describes the effects of spaceflight at cellular and organism levels.

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and space explorers of tomorrow. Advancing our knowledge in the areas of human physiology, biology, material and physical sciences, and translating that knowledge to health, socioeconomic, and environmental benefits on Earth is another common goal of the agencies: returning the knowledge gained

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RESEARCH IN SPACE

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2016 - Page 4 I. Background Introduction. In
2010, NASA published a "NASA Fundamental
Space Biology (FSB) Science Plan, 2010-2020"
to guide its research investments in this
area of Space Life Sciences. The Space Bi-

Space Biology Science Plan 2016 - 2025

Space biology is a synthetic science, having
gathered together the advances made in
various branches of biology, aviation
medicine, astronomy, geophysics, radio
electronics, and many other sciences and
having based its own research methods on

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them. Space biologists carry out research on diverse species of living organisms, from viruses to mammals.