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## Fundamentals of Space Biology: Research on Cells, Animals ...

Past, current, and future research on the effects of gravity--or its absence--and ionizing radiation on the evolution, development, and function of living organisms is presented in layman's terms by researchers who have been active in this field. The purpose is to enlighten science and non-science readers to the benefits of space biology research for conducting basic and applied research to support human exploration of space.

## Fundamentals of Space Biology | SpringerLink

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.

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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;

Fundamental Space Biology | NASA SBIR & STTR Program

Homepage

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Fundamentals of Space Biology

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

## NASA Fundamental Space Biology Science Plan

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

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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, radiation biology, and biotechnology.

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Plants in Space Gilles 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.

## Fundamentals of Space Biology: Research on Cells, Animals ...

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 in space research for the benefit of society.

## RESEARCH IN SPACE

Fundamentals of Space Biology Research on Cells, Animals, and

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Press El Segundo, California and 4Q Springer

Fundamentals of Space Biology - GBV

Space Biology Science Plan 2016-2025 May 11, 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

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

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