

NASA Request for Information (RFI) on Topics Supporting Crew Health and Performance

Solicitation Number: NNJ17ZSA001L

Release Date: June 12, 2017

Response Date: June 26, 2017

This Request for Information (RFI) is for an upcoming solicitation that is a collaborative effort between NASA's Human Research Program (HRP) and NASA's Space Biology (SB) Program. NASA's Human Research Program (HRP) investigates and mitigates the highest risks to astronaut health and performance in exploration missions. The goal of the HRP is to provide human health and performance countermeasures, knowledge, technologies, and tools to enable safe, reliable, and productive human space exploration, and to ensure safe and productive human spaceflight. The scope of these goals includes both the successful completion of exploration missions and the preservation of astronaut health over the life of the astronaut. NASA's Space Biology (SB) sponsors research studies that will document and augment our understanding of causal cellular and other mechanisms that underlie adaptation to fractional gravity levels in cells, microorganisms, plants, and animals to improve our understanding of the mechanisms of adaptation to chronically altered gravity levels.

To support formulation of a solicitation scheduled to be released in July 2017, NASA is seeking feedback regarding the set of topics listed in the RFI. Specifically, NASA wishes to know:

1. Is each research topic sufficiently well-defined, clear and unambiguous? In particular, NASA is interested to know if the Background, Aims, Research Platform, Specific Research Focus Areas, and Deliverables are clearly articulated for each topic.
2. Are the research questions and gaps listed for each research topic appropriate to meet the goals of either Program? Respondents are encouraged to study the HRR and review the risks and gaps for each topic, as well as the goals and guiding questions listed in SB's Science Plan. Missing research or guiding questions, whether included in the HRR or the SB Science Plan, which will aid in addressing each research topic should be identified. Please note that Topic 1 includes critical questions from the SB Science Plan and the 2011 National Research Council Decadal Survey.

Access to NASA's human life sciences data can assist the research community in providing a better understanding of the appropriate strategies required to mitigate spaceflight-related health and performance risks. If interested in learning about and accessing this data, please visit the Users' Guide for requesting data at: <http://lsda.isc.nasa.gov/common/dataRequestFAQ.aspx>

The full text of the RFI and response instructions can be found at:

<https://tinyurl.com/2017CrewHealthRFI>. Responses must be submitted electronically using the NSPIRES web site. This RFI is open to responses from all parties including commercial entities, international organizations, academia, NASA Centers, and other government agencies.

The information obtained will be used by NASA for planning and acquisition strategy development. NASA will use the information obtained as a result of this RFI on a non-attribution basis. Providing data and information that is limited or restricted for use by NASA for that purpose would be of very little value and such restricted/limited data/information is not solicited. No information or questions received will be posted to any website or public access location. NASA does not plan to respond to the individual responses. The Government does not intend to award an award on the basis of this RFI or to otherwise pay for the information solicited.