Call for papers

We are pleased to announce a special issue of Life Sciences in Space Research on the theme of: “Breaking the Limit: Biological Countermeasures for Space Radiation Exposure to Enable Long-Duration Spaceflight.”

The health risks of radiation exposure currently limit the duration of human deep space exploration missions. Breaking this limit will require novel extraplanetary radiation countermeasures. The special issue will include articles in subcategories of:

- Agency/overall perspectives
- Industry/drug developer perspectives
- Data-based standard articles
- Platform-based articles

Articles will highlight specific methods and approaches that could be applied for accelerated development of space radiation countermeasures. Some articles will be review/perspective pieces and others will provide a venue for publication of primary data. Collectively, the articles will serve as a valuable resource for researchers and policy makers alike. The collection affords the space radiation community and others with a unique opportunity to further develop and refine the underlying strategies and to present supporting data.

Guest editors will be:
William S. Dynan, Professor, Emory University
S. Robin Elgart, Space Radiation Element Scientist, University of Houston (guest editor)
Brock Sishe, Cancer Discipline Lead, Aegis Aerospace Inc. (guest editor)

The special issue will be overseen by Dr. Polly Chang, LSSR co-editor and Senior Scientific Director, Non Clinical Development, SRI International.

Articles should occupy approximately five to ten journal pages. Interested authors should make a pre-submission inquiry on or before December 1, 2021. The emphasis is on risks specific to long-duration missions, and, with some exceptions, acute radiation syndrome is outside the scope of this special issue. The submission deadline will be March 1, 2022, for an anticipated issue date in summer, 2022.

For more information and pre-submission inquiries, please contact the managing guest editor, Dr. Dynan, at (wdynan@emory.edu).