

Topics in Human Space Exploration and Medicine

**Towards Precision Space Medicine: Individual Responses to
the Space Environment**

Speaker:

Graham B.I. Scott, Ph.D.
Associate Professor
Department of Molecular and Cellular Biology and
Center for Space Medicine
Vice President, Chief Scientist & Institute Associate Director
National Space Biomedical Research Institute (NSBRI)

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12:10 – 1:00 p.m.

DeBakey Classroom – M423

- Graham Scott will highlight individual differences and phenotypic variability observed in astronaut crew members during spaceflight, as well as in analog environments.
- He will also discuss current and future opportunities to employ modern –omics techniques, such as next generation sequencing, as a key component of space biomedical research.
- Particular mention will be made of an upcoming flight study on the International Space Station involving a set of identical twin astronauts, namely Scott and Mark Kelly.
- Dr. Scott will also discuss the use of personalized medicine approaches to better enable a future flyby mission of the red planet, as proposed by Inspiration Mars.

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