

*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)

Wednesday, October 02, 2013

12:10 – 1:00 p.m.

Cullen Auditorium

- 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 touch on the planned use of personalized medicine approaches to better enable the upcoming Inspiration Mars mission that will involve a husband and wife couple.