



# 2023 Humans In Space Challenge Virtual Finalist Selection

Co-Hosted By:

BORYUNG

AXIOM  
SPACE

 AURELIA

# 2023 Virtual Finalist Selection - Day 1

| TIME (ET) | SESSION   | SPEAKER   |
|-----------|---|---|
| 11:00 AM  | Opening Remarks & Judges Introduction   | <b>David Lee</b>   Manager of New Portfolio Investment Group   Boryung                  |
| 11:05 AM  | Human physiology & ability to respond in emergency explosive depressurization in suborbital hypersonic flight   | <b>Emmy Jewell</b>   Embry-Riddle University, Department of Aviation & Aerospace   USA  |
| 11:09 AM  | Design of Lunar Health Maintenance Facility (HMF) for Remote Diagnosis and Treatment of Circulatory & Musculoskeletal problems in Lunar Missions                              | <b>Souktik Bhattacharjee</b>   University of Adelaide, ATCSR   USA                      |
| 11:13 AM  | Citizen Science Research to build a data repository to understand the physiological effects of gravity transition on new and frequent flyers across different health profiles | <b>Gopal Katkoria</b>   International Institute for Astronautical Sciences   USA        |
| 11:17 AM  | Quantitative analysis of nitrogen elimination & venous gas emboli production during normobaric oxygen breathing   | <b>Miroslav Rozloznik</b>   University of Ostrava, Faculty of Medicine   Czech Republic |
| 11:21 AM  | Impact of $\mu$ G-induced immune alterations on astronaut cancer risk   | <b>Christopher Porada</b>   Wake Forest Institute for Regenerative Medicine   USA       |
| 11:25 AM  | Comprehensive biomedical and multi-omic profiling of immune dysregulation with countermeasure development for astronauts.   | <b>JangKeun Kim</b>   Weill Cornell Medicine   USA                                      |
| 11:29 AM  | Pre-symptomatic detection of epithelial barrier dysfunction   | <b>Madelyn Hoying</b>   Massachusetts Institute of Technology   USA                     |

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| 11:32 AM  | Keynote Session   | <b>Mathias Basner</b>   Professor of Psychiatry   University of Pennsylvania |
| 11:39 AM  | Point-of-care monitoring of space environmental stress using near-infrared fluorescence | <b>Jinhui Ser</b>   Harvard Medical School   USA                             |
| 11:43 AM  | The impact of microgravity on human cognition   | <b>Alysson Muotri</b>   UC San Diego   USA                                   |
| 11:47 AM  | Neurologic assessment for triaging of mission criticality                               | <b>Mark Rosenberg</b>   Medical University of South Carolina   USA           |
| 11:51 AM  | PersonAlisEd TouRniquet System for SpAceflight (ASTRA Study)                            | <b>Luke Hughes</b>   Northumbria University   UK                             |
| 11:55 AM  | Optimizing Fracture Care for Long-Duration Space Missions                               | <b>Alejandro Marcano</b>   Karolinska Institutet   Sweden                    |
| 11:59 AM  | A system for continuous explanatory space and Earth health monitoring                   | <b>Boaz Lerner</b>   Ben – Gurion University of the Negev   Israel           |
| 12:03 PM  | Shields up! Inhibition of DNA polymerase theta as a galactic cosmic ray counter-measure | <b>Devon Lundine</b>   Memorial Sloan Kettering Cancer Center   USA          |
| 12:06 PM  | Closing Remarks   | <b>David Lee</b>   Manager of New Portfolio Investment Group   Boryung       |