

Baylor College of Medicine

Dorit Donoviel, Ph.D.

Director



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Positions

Director

Translational Research Institute for Space Health

Faculty Senator

Baylor College of Medicine
Houston, Texas United States

Director, Biomedical Innovation Laboratory

The National Space Biomedical Research Institute (NSBRI)
Center for Space Medicine
Baylor College of Medicine
Houston, Texas United States

Associate Professor

Center for Space Medicine
Baylor College of Medicine
Houston, TX US

Education

B.A. from University Of California, San Diego

01/1986 - La Jolla, CA United States

Ph.D. from University Of Washington

01/1993 - Seattle, WA United States

Advanced Training from Mount Sinai Research Institute

01/2000 - Toronto, Canada

Certifications

Associate Professor

TRISH

A published scientist herself¹, Dr. Donoviel interfaces with NASA at many levels ensuring programmatic alignment with the highest risks to human space flight while safeguarding scientific excellence. She is the recipient of several NASA Human Research Program awards and the NSBRI Outstanding Leadership Award, and serves on many advisory and review boards, and lectures about the space life sciences both nationally and internationally. Dr. Donoviel is an Assistant Professor in the Department of Pharmacology, a member of the Center for Space Medicine, and an elected faculty senator at Baylor College of Medicine, lecturing and mentoring medical students in space biomedical research. Before joining NSBRI, Dr. Donoviel was engaged in pharmaceutical drug discovery at Lexicon Pharmaceuticals, a biotechnology company based in The Woodlands, Texas. For eight years, she

managed a metabolism research group that identified and validated targets for drug discovery by using in-vivo functional genomics technology, and developed small molecule compounds, antibody, and protein therapeutics against these validated targets. Dr. Donoviel received her baccalaureate degree in biochemistry at University of California, San Diego, and doctorate also in Biochemistry at the University of Washington. She received a Human Frontiers International Fellowship to perform her postdoctoral research at Mount Sinai Hospital in Toronto, Ontario, Canada, where she developed genetically engineered mouse models for Alzheimer's Disease.

Honors & Awards

Professional Achievements

- Pioneer Award, National Space Biomedical Research Institute (NSBRI); January 25, 2017
- Outstanding Leadership Award, 2016, for exceptional leadership of the NSBRI Industry Forum.
- NASA Group Achievement Award, 2014, for work as a member of the Executive Steering Committee for the collection of six scientific articles on "The Impact of Sex and Gender on Adaptation to Space" published in *The Journal of Women's Health*.
- Special Commendation Award for Exceptional Service as Acting NSBRI Associate Director and Chief Scientist, 2012, NASA Human Research Program.

Websites

[VIICTR Publications List](#)

[TRI for Space Health](#)

Selected Publications

- McLaughlin, MF, Donoviel, DB, Jones, JA "Novel indications for commonly used medications as radiation protectants in spaceflight." *Aerosp Med Hum Perform*. 2017 Jul;88(7):664-669. Pubmed PMID: 28641684
- Bershad, EM, Anand, A, DeSantis, S, Yang, M, Tang, R, Calvillo, E, Damani, R, Maldonado, N, Chethan P. Rao, V, Suarez, SI, Clark, JB, Sutton, JP, and Donoviel, DB "Clinical Validation of Vittamed Non-Invasive ICP Meter in

Patients with Elevated Intracranial Pressure: A Prospective Cross-Sectional Study." *World Neurosurg.* 2016;89:647-653.

- Donoviel, DB and Sutton, JP "Biomedical and Technological Advances Made for Humans in Space are Improving Health on Earth." *Curr Biotech.* 2013;2:184-191.

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