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Correspondence Icanha School of Medicine at Mount Sinai PI Address 1: Zena & Michael A. Weiner Cardiovascular Institute PI Address 1: One Gustave L. Levy Place, Box 1030 PI Web Page: Ital City: New York State: Zip Code: 10029 Congressional District: 12 Comments: NOTE: PI moved to Icahn School of Medicine at Mount Sinai from Temple University in October 2018. TRISH-Focused Investigati Project Type: FLIGHT, GROUND Solicitation / Funding Source: TRISH-Focused Investigati Start Date: 05/01/2018 End Date: 0/731/2021 No. of Post Docs: No. of Bachelor's Degrees: Ital No. of PhD Candidates: No. of Bachelor's Degrees: Ital No. of Bachelor's Candidates: Monitoring Center: TRISH Contact Email: Contact Plone: Ital Flight Program: Pre/Post Flight Contact Plone: Ital Flight Program: Shuttle specimen work NOTE: End date changed to 7/31/2021 per E. Urquieta/TRISH (Ed., 4/28/21) NOTE: End date changed to 10/31/2019 per E. Urquieta/TRISH (Ed., 5/23/19) Ver Prosonel Changes/Previous PI:	PI Email:	david.goukassian@mssm.edu	Fax:	FY
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	COI Name (Institution):			
Performance Goal No.:	Grant/Contract No.:	NNX16AO69A-FIP0005		
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Performance Goal Text:	Performance Goal Text:			

Task Description:	Focused Investigation Project This project aims to evaluate the potential impact of the space flight environment on the regulation of molecular pathways mediating cellular stress responses. We performed a first-of-its-kind pilot feasibility study to assess space flight-associated changes in exosomes derived from peripheral blood (PB) plasma collected 10 days before the launch (L -10) and the day of landing (R 0) from two astronauts who participated in STS-100 and STS-104 missions. Our preliminary pilot experiment results suggest that spaceflights may induce remarkable changes in the cargo of circulating plasma exosomes that may reflect alterations in multiple gene and protein pathways in various tissues and cells. This work represents a pilot/feasibility study to identify plasma exosomal miRNA as a source of blood derived epigenetic biomarker identification.
Rationale for HRP Directed Research	:
Research Impact/Earth Benefits:	
Task Progress:	New project for FY2018.
Bibliography Type:	Description: (Last Updated: 03/06/2024)