Task Book Report Generated on: 04/17/2024

Pl Name: Plaois, William H Ph.D. Project Title: Modulation of Mosele Function by Lower Limb Loading during Space Flight Division Name: Human Research Program/Dicipline: HUMAN RISEARCH Program/Dicipline- Element/Subdiscipline- Element/Subdiscipline- Element/Subdiscipline- Element/Subdiscipline- Element/Subdiscipline- Human Research Program Elements: (I) HIRC-Human Health Countermeasures Joint Agner, Name: TechPort: No Illuman Research Program Risks: (I) MuscleRisk of Impaired Performance Due to Reduced Muscle Size, Strength and Endurance Space Biology Cross-Element Space Biology Cross-Element Space Biology Special Category: None Pleasile: Space Biology Special Category: None Pleasile: Pleasile: Pleasile: Pleasile: Space Biology Special Category: None Pleasile: Pleasile	Fiscal Year:	FY 2013	Task Last Updated:	FV 03/11/2013
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Space Biology Element: Space Biology Cross-Element Discipline: Space Biology Cross-Element Discipline: Space Biology Special Category: None PI Email: whpaloski@ah.edu PI Cryanization Type: UNIVERSITY Phone: (713) 743-9272 Organization Name: University of Houston PI Address 1: Health & Human Performance PI Address 2: Basts Holman St, Garrison 104 PI Web Page: City: Houston State: TX Zip Code: 77204-6015 Congressional District: Zip Code: Project Type: PI Gifft Solicitation / Funding Source: 2010 Crew Health NNJ10ZSA003N Start Date: No. of Pan Decrees: No. of PhD Candidates: No. of PhD Candidates: No. of Master's Candidates: No. of Bachelor's Candidates: No. of Bachelor's Candidates: No. of Bachelor's Candidates: No. of Bachelor's Candidates: Sight Assignment: SS Flight Assignment: Loech, Linda Contract Email: Linda Contract Phone: Collarke, Mark. (University of Houston) Program at JSC (Ed., 3'11/2013) Coll Name (Institution): Coll Carke, Mark. (University of Houston) Connor, Dan (University of Houston) Contract Non: Contr	Human Research Program Elements:	(1) HHC :Human Health Countermeasures		
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Flight Assignment: Key Personnel Changes/Previous PI: NOTE: PI change to Dr. Mitzi Laughlin in February 2013, result of PI Paloski's assignment to Human Research Program at JSC (Ed., 3/11/2013) Clarke, Mark (University of Houston) Layne, Chuck (University of Houston) O'Connor, Dan (University of Houston) Thrasher, Timothy (University of Houston) Grant/Contract No.: NNX12AF04G Performance Goal No.:	Contact Email:	linda.loerch-1@nasa.gov		
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Performance Goal No.:	COI Name (Institution):	Layne, Chuck (University of Houston) O'Connor, Dan (University of Houston))	
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Task Book Report Generated on: 04/17/2024

Task Description:	Muscle size, structure, and coordination changes during spaceflight are likely triggered by absent or reduced loading of receptors in the soles of the feet and the muscles and joints of the lower limbs. To better understand the physiological bases of these adaptive responses, we propose to examine, in-flight, the relationships between lower limb loading and muscle activation, and control. The proposed experiments will study astronaut volunteers before flight and on multiple occasions during flight using the MARES device to provide loading to the feet and legs as well as device that can apply pressure to the soles of the feet. The effects on muscle activation and performance associated with foot pressure alone or foot pressure plus lower limb loading will be investigated. If successful this investigation will provide new insight into the role of lower extremity load receptors in modulating muscle function and new evidence regarding the potential for a passive loading countermeasure to attenuate the undesirable side effects of space flight on muscle function.	
Rationale for HRP Directed Research		
Research Impact/Earth Benefits:		
Task Progress:	NOTE: Change in PI to Dr. Mitzi Laughlin in February 2013, result of PI Paloski's assignment to Human Research Program at JSC. See Laughlin for subsequent reporting (Ed., 3/11/2013)	
Bibliography Type:	Description: (Last Updated: 02/09/2021)	