Task Book Report Generated on: 04/18/2024

File Time: Bed Rear Commined with 0.5% CO2 as a Spaceflight Annulog to Study Neurocognitive Changes: Extent, Longevity, and Neurocognitive Dissiplines. Frogram/Discipline: Frogram/Discipline: Frogram/Discipline: ILMAN RESUARCH—Behavior and performance ILMAN RESUARCH—Behavior and performance (ERCHORT) ILM	Fiscal Year:	FY 2017	Task Last Updated:	FY 01/11/2018
Dicksion Name: Human Research Program/Discipline: Program/Discipline- Elements/Subdiscipline- Elements/Eleme	PI Name:	Seidler, Rachael D. Ph.D.		
Program/Discipline: Program/Discipline: Program/Discipline: HUMAN RESEARCH—Behavior and performance Element's bubbles(piline): Human Research Program Elements: (1) HEBP-Human Factors & Behavioral Performance (IRP Rev H) Human Research Program Elements: (1) HEBP-Human Factors & Behavioral Conditions and Psychiatric Disorders. (2) Sensor/institute (IRP Rev H) Human Research Program Riskos: (1) BMcd:Risk of Adverse Cognitive or Behavioral Conditions and Psychiatric Disorders. (2) Sensor/institute (IRP Rev H) Human Research Program Riskos: (1) BMcd:Risk of Adverse Cognitive or Behavioral Conditions and Psychiatric Disorders. (2) Sensor/institute (IRP Rev H) None Space Biology Element: None Pleading Company	Project Title:		a Spaceflight Analog to	Study Neurocognitive Changes: Extent, Longevity, and
Program/Discipline-	Division Name:	Human Research		
Element/Subdiscipline: HUMAN RESEARCH—Behavior and performance Joint Agency Name: (1) HERP Human Factors & Behavioral Performance (IRP Rev H) Human Research Program Riements: (1) HERP Human Factors & Behavioral Performance (IRP Rev H) Human Research Program Riements: (2) Sensorimotor-Risk of Altered Sensorimotor-Vestibular Function Impacting Critical Mission Tasks Space Biology Element: None Space Biology Element: None Space Biology Eros-Element None Pleantiff Pleantiff Behavioral Performance (IRP Rev H) None Pleantiff Pleantiff Behavioral Constitution Type: University of Florida Pleantiff Behavioral Constitution Type: University of Florida Pleantiff Pleantiff Pleantiff Behavioral Physiology & Kinesiology Pleantiff Pleantiff Pleantiff Behavioral Riements Applied Physiology & Kinesiology Pleantiff Pleantiff Pleantiff Braic PY Plores 352-294-1722 Organization Name: University of Florida Pleantiff Pleantiff Pleantiff Braic PY Project Type: Solicitation / Fanding Braic Py Braic	Program/Discipline:			
Human Research Program Elements: (1) HEBP-Human Factors & Behavioral Performance (IRP Rev II) Human Research Program Risks: (1) BMcd-Risk of Adverse Cognitive or Rehavioral Conditions and Psychiatric Disorders (2) Sensorimotor-Risk of Altered Sensorimotor-Vestibular Function Impacting Critical Mission Tasks Space Biology Cross-Element None Space Biology Special Category: None PI Email: mahaedseidler@adl_edu Fax: FY PI Organization Type: UNIVERSITY Phone: 352-294-1722 Organization Name: University of Florida PI Address 1: Applied Physiology & Kinesiology PI Address 2: FIG 142, P.O. Box 118205 PI Web Page: City: Gainesville State: FL Congressional 3 District: Comments: NOTE: PI moved to University of Florida in July 2017; precvious affiliation was University of Michigan. Project Type: GROUND Solicitation / Funding 2014-15 HERO NNJ14ZSA001N-MIXEDTOPICS. Source: Appendix E Behavioral Health & Human Health Countermeasures Topics Start Date: 06/29/2017 Fand Date: 06/28/2019 No. of Post Does: No. of PhD Degrees: No. of Post Does: No. of Bachelor's Degrees: No. of Master's Candidates: No. of Bachelor's Longrees: No. of Bachelor's Contact Monitor: Williams, Thomas Contact Phone: 281-483-8773 Contact Email: thomas a will Romas coy Biometer (IRM) Alphano Space Center (IRM) Alphano Space Research Association (IRM) Alphano Space Center (IRM) Al	Program/Discipline Element/Subdiscipline:	HUMAN RESEARCHBehavior and J	performance	
Human Research Program Risks: (1) BMed-Risk of Adverse Cognitive or Behavioral Conditions and Psychiatric Disorders (2) Sensorimotor-Risk of Altered Sensorimotor-Vestibular Function Impacting Critical Mission Tasks Space Biology Cross-Element None Space Biology Cross-Element None Plemail: machaelesider@ufl.edu Plemail: programization Type: UNIVERSITY Phone: 352-294-1722 Organization Name: University of Florida Pl Address 1: Applied Physiology & Kinesiology Pl Address 2: Pl Address 2: Pl Cf 142, P.O. Box 118205 Pl Web Page: City: Gainesville State: FL Zip Code: 32611-8205 Congressional 3 District: Comments: NOTE: Pl moved to University of Florida in July 2017; previous affiliation was University of Michigan. Project Type: GROUND Solicitation / Funding Source Countermeasures Topics Start Date: 6629/2017 End Date: 6629/2017 End Date: 6628/2019 No. of Pab Degrees: No. of Pab Candidates: No. of Master' Degrees: No. of Master' Degrees: No. of Master's Candidates: No. of Bachelor's Candidates: No. of Master' Candidates: No. of Bachelor's Candidates: No. of Bachelor's Candidates: No. of Bachelor's Candidates: No. of Master' Can	Joint Agency Name:	7	TechPort:	No
Cainesville (Caines) Cainesville (Caines) Cainesville (Caines) Care Biology Special Category: None Space Biology Special Category: None PI Email: mehaelesidler@ntl.edu Fax: FY PI Organization Type: UNIVERSITY Phone: 352-294-1722 Organization Name: University of Florida PI Address 1: Applied Physiology & Kinesiology PI Address 2: FLG 142, P.O. Box 118205 PI Web Page: City: Gainesville State: FL City: Gainesville State: FL Comments: NOTE: PI moved to University of Florida a Distriction of Cameria (Caines) Project Type: GROUND Solicitation / Funding Sources (Canes) Comments: O629/2017 Funding Sources (Canes) No. of Pab Decrees: No. of Master's Candidates: No. of Master's Candidates: No. of Rachelor's Degrees: No. of Bachelor's Candidates: No. of Bachelor's Candid	Human Research Program Elements:	(1) HFBP :Human Factors & Behaviora	al Performance (IRP Rev	H)
Space Biology Cross-Element Discipline: Space Biology Cross-Element Discipline: None PI Email: pelbody Special Category: None PI Conganization Type: UNIVERSITY Phone: 352-294-1722 Organization Name: University of Florida PI Address 1: Applied Physiology & Kinesiology PI Address 2: FLG 142, P.O. Box 118205 PI Web Page: City: Gainewille State: FL Zip Code: 32611-8205 Congressional 3 Solicitation / Funding Applied Physiology of Plorida in July 2017; previous affiliation was University of Michigan. Project Type: GROUND Solicitation / Funding Applemia E Behavioral Health & Human Health Comments: No. of Post Does: No. of Post Does: No. of PhD Degrees: No. of PhD Degrees: No. of PhD Degrees: No. of PhD Candidates: No. of Master's Candidates: No. of Bachelor's Candida	Human Research Program Risks:			
Discipline: "None Space Biology Special Category: None PI Caranalization Type: UNIVERSITY Phone: 352-294-1722 Organization Name: University of Florida PI Address 1: Applied Physiology & Kinesiology PI Address 2: FLG 142, P.O. Box 118205 PI Web Page: City: Gainesville State: FL Zip Code: 32611-8205 Comments: NOTE: PI moved to University of Florida in July 2017; previous affiliation was University of Michigan. Project Type: GROUND Solicitation / Funding Source: Appendix E: Behavioral Health & Human Health Countermeasures Topics Start Date: 0629/2017 End Date: 0628/2019 No. of Post Docs: No. of PhD Degrees: No. of Post Docs: No. of Bachelor's Degrees: No. of Master' S Candidates: No. of Bachelor's Degrees: No. of Bachelor's Candidates: Monitoring Center: NASA JSC Contact Monitor: Williams, Thomas Contact Phone: 281-483-8773 Contact Contact Canali: thomas i. will @nasa.eov Flight Program: Flight Assignment: Key Personnel Changes/Previous PI: COI Name (Institution): Bloomberg, Jacob Ph.D. (NASA Johnson Space Center) Mulavara, Ajitkumar Ph.D. (Universities Space Research Association) Kuchan, Simone Ph.D. (Universities Space Research Association) Kuchan, Simone Ph.D. (Universities Space Research Association) Kuchan, Simone Ph.D. (University of Pennsylvania) Grant/Contract No.: 80NSSC17K0021	Space Biology Element:	None		
PI Email: nachaelseidler@afl.edu Fax: FY PI Organization Type: UNIVERSITY Phone: 352-294-1722 Organization Name: University of Florida PI Address 1: Applied Physiology & Kinesiology PI Address 2: FLG 142, P.O. Box 118205 PI Web Page: City: Gainesville State: FL Zip Code: 32611-8205 Congressional 3 District: 3 Comments: NOTE: PI moved to University of Florida in July 2017; previous affiliation was University of Michigan. Project Type: GROUND Solicitation / Funding Source: Countermeasures Topics Start Date: 06/29/2017 End Date: 06/28/2019 No. of Post Does: No. of PhD Degrees: No. of PhD Candidates: No. of PhD Degrees: No. of Master's Candidates: No. of Bachelor's Degrees: No. of Master's Candidates: Monitoring Center: NASA JSC Contact Monitor: Williams, Thomas Contact Phone: 281-483-8773 Contact Email: thomas j.will @masa.gov Flight Program: Flight Assignment: Key Personnel Changes/Previous PI: COI Name (Institution): Bloomberg, Jacob Ph.D. (NASA Johnson Space Center) Mulavara, Ajitkumar Ph.D. (University of Pennsylvania) Grant/Contract No.: 80NSSC17K0021 Performance Goal No.:	Space Biology Cross-Element Discipline:	None		
Pl Organization Type: UNIVERSITY Phone: 352-294-1722 Organization Name: University of Florida Pl Address 1: Applied Physiology & Kinesiology Pl Address 2: FLG 142, P.O. Box 118205 Pl Web Page: City: Gainesville State: FL Zip Code: 32611-8205 Congressional 3 District: 3 Comments: NOTE: Pl moved to University of Florida in July 2017; previous affiliation was University of Michigan. Project Type: GROUND Solicitation / Funding 2014-15 HERO NNJ142/SA001N-MIXEDTOPICS. Appendix Es Behavioral Health & Human Health Countermeasures Topics Start Date: 06/29/2017 End Date: 06/28/2019 No. of Post Does: No. of PhD Degrees: No. of PhD Candidates: 06/29/2017 No. of Master' Degrees: No. of Master's Candidates: No. of Bachelor's Degrees: No. of Bachelor's Candidates: Monitoring Center: NASA JSC Contact Monitor: Williams, Thomas Contact Phone: 281-483-8773 Contact Email: thomas i.will @nasa gov Flight Program: Flight Assignment: Key Personnel Changes/Previous Pl: COI Name (Institution): Bloomberg, Jacob Ph.D. (NASA Johnson Space Center) Mulavara, Ajitkumar Ph.D. (Universities Space Research Association) Kuchn, Simone Ph.D. (Max Planck Institute for Human Development) Statu, Contract No.: 80NSSC17K0021	Space Biology Special Category:	None		
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Project Type: GROUND Solicitation / Funding Source: GROUND Solicitation / Funding Source: O6/29/2017 End Date: O6/28/2019 No. of PhD Degrees: No. of PhD Candidates: No. of PhD Candidates: No. of Master's Candidates: No. of Bachelor's Degrees: No. of Bachelor's Degrees: No. of Bachelor's Candidates: No. of Bachelor's Degrees: No. of Bachelor's Candidates: No. of Bachelor's Candidates: No. of Master's Candidates: No. of Bachelor's Candidates: No. of Pab Degrees: No. of PhD Centres: No. of PhD	Zip Code:	32611-8205	Congressional District:	3
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Task Book Report Generated on: 04/18/2024

Task Description:

NRA NNJ14ZSA001N-MIXEDTOPICS requests proposals in the area of "Risk Characterization and Monitoring of Behavioral Health and Performance Relevant Outcomes" to determine the effects of 30 days head down tilt bed rest in a 0.5% CO2 environment on neurobehavioral signs and symptoms, neurostructural and neurofunctional alterations, and changes in cognitive function and operational task performance. Our Neuromapping studies measure precisely these metrics in a flight study and a 70 days head down tilt bed rest study under normative conditions. Here, our overarching goal is to quantify neurocognitive changes and associated neural structural and functional alterations occurring as a result of a 30 days head down tilt bed rest plus 0.5% CO2 environment, serving as a spaceflight analog exposure. We will identify the relationship between these neural changes and behavioral function. Our approach utilizes cutting edge neuroimaging techniques and a broad ranging battery of sensory, motor, and cognitive assessments to investigate neuroplastic and maladaptive brain changes occurring in a spaceflight analog environment. Success in this endeavor would 1) result in identification of the underlying neural mechanisms and operational risks of changes in behavior with a spaceflight analog, and 2) identify whether a return to normative behavioral function following bed rest is associated with a restitution of brain structure and function or instead is supported by substitution with compensatory brain processes. Moreover, addition of a CO2 group will enable us to parse out the multiple mechanisms contributing to any spaceflight induced neural structural and behavioral changes that we observe in our ongoing flight projects ((NASA flight project, Seidler Principal Investigator (PI); ILSRA flight study, Stahn PI)), and comparison with our recently completed bed rest projects (Seidler and Stahn, PIs) will allow us to delineate brain and behavioral changes occurring with long term exposure to slightly elevated CO2 levels.

Rationale for HRP Directed Research:

Research Impact/Earth Benefits:

Task Progress:

New project for FY2017.

Bibliography Type:

Description: (Last Updated: 01/24/2024)