Task Book Report Generated on: 04/17/2024

PI Name: A Gene Espession and Histologic Approach to the Study of Cerebrospinal Fluid Peoduction and Outflow in Hindlimb Supended Ratu Supende	Fiscal Year:	FY 2016	Task Last Updated:	FY 11/21/2014
Project Title: Saspended Mare Human Research Program/Discipline- Program/Discipline- Element/Subduicipline- Blement/Subduicipline- Blement/Subduicipline-Blement/Subduicipline-Blement/Subduicipline-Blement/Subduicipline-Blement/Subduicipline-Blement/Subduicipline-Blement/Subduicipline-Blement/Subduicipline-Blement/Subduicipline-Blement/Subduicipline-Blement/Subduicipline-Blement/Subduicipline-Blement/Subduicipline-Blement/Subduicipline-Blement/Subduicipl			Tusk East opunted.	1111/202011
Program/Discipline: Frogram/Discipline: HUMAN RESEARCH-Biomedical countermeasures Joint Agency Name: Tech Port: No Human Research Program Elements: (1) HHC-Human Health Countermeasures Human Research Program Risks: (1) SANSR'isk of Spaceflight Associated Neuro-ocular Syndrome (SANS) Space Biology Flement: None Space Biology Special Category: None PI Email: susana b zunchlostnasa gov Fax: FY PI Corganization Type: NASA CENTER Phone: 392-576-6059 Organization Name: KBRNASA Johnson Space Center PL Address I: Human Research Program Chief Scientist Office PI Address I: Houston State: TX PI Address I: Houston State: TX Type Code: 77058 Congressional District: 36 Comments: NOTE (January 2021): PI new at KIBNNASA, P.C. of December 2020 Proviously at inner USA from June 2019; Proviously		A Gene Expression and Histologic Approach to the Study of Cerebrospinal Fluid Production and Outflow in Hindlimb		
Program/Discipline- Element/Subdiscipline- Element	Division Name:	Human Research		
Flement/Subdiscipline: FlorAnn RESEARCH - Bonneauer Countermeasures Tech Port: No	Program/Discipline:			
Human Research Program Elements: (1) HHC-Human Health Countermeasures Human Research Program Risks: (1) SANS Risk of Spaceflight Associated Neuro-ocular Syndrome (SANS) Space Biology Element: None Space Biology Cross-Element Discipline: Space Biology Special Category: None PI Email: Stand Panelloérinas agov Fax: FY PI Organization Type: NASA CENTER Phone: \$32.576-6059 Organization Name: KBR/NASA Johnson Space Center PI Address I: Human Research Program Chief Scientist Office PI Address 2: PI Web Page: City: Houston State: TX Zip Code: 77058 Congressional District: 36 NOTE (January 2021): PI now at KBR/NASA JSC as of December 2020. Previously at times USA from June 2019-November 2020; NASA AISC (KBRAY) of mon August 2017 until spring 2019 - Froir to August 2017. PI was with Universities Space Research Association. Project Type: GROUND Solicitation / Funding 2013 HERO NNIJ132A AO/2N-Crew Source: Health (FLAGSHIP & NSBR)) Start Date: 1001/2015 End Date: 0930/2018 No. of Post Diese: No. of PhD Degrees: No. of Post Diese: No. of Master' S Candidates: No. of Master' Degrees: No. of Master' S Candidates: No. of Master' Degrees: No. of Master' S Candidates: No. of Master' Degrees: No. of Bachelor's Candidates: No. of Master' Degrees: No. of Master' S Candidates: Peter sons & Grant Phone: Contact Monitor: Peter sons & Grant Phone: Contact Contact Honifor: Peter sons & Grant Phone: Contact Contact Changes/Previous PI: Fight Assignment: Key Personnel Changes/Previous PI: Rivera, Adreana M.D. (Houston Methodist Hospital) Thereic, Corey Ph.D. (Luiversity of Texas Galveston) Chevez-Brines Patricia M.D. (The Methodist Hospital Research Institute) Coll Name (Institution): Research Page 2018 No.		HUMAN RESEARCHBiomedical countermea	sures	
Human Research Program Risks: (1) SANS-Risk of Spaceflight Associated Neuro-ocular Syndrome (SANS)	Joint Agency Name:		TechPort:	No
Space Biology Element: None Space Biology Cross-Element Disciplinars None Space Biology Special Category: None PI Email: susmab Jamel Disciplinars Space Biology Special Category: None PI Email: susmab Jamel Disciplinars Space Biology Special Category: None PI Email: susmab Jamel Disciplinars PI Part Disciplinary NASA CENTER Phone: 832-576-6059 Organization Name: KBR/NASA Johnson Space Center Proposed Type: REPROPER DISCIPLINARY PI Address 1: Human Research Program Chief Scientist Office Proposed Type: State: TY City: Houston State: TX Zip Code: 77058 Congressional District: 35 Comments: 77058 Congressional District: 35 Comments: 77058 Congressional District: 35 Project Type: GROUND Solicitation Funding Space Provious Province Properties Association. Start Date: 1001/2015 End Date: 69/30/2018 No. of Past D	Human Research Program Elements:	(1) HHC:Human Health Countermeasures		
Space Biology Cross-Element Discipline: Space Biology Special Category: None PI Email: sussna by zone Biology Special Category: NASA CENTER Plone: SUSSNA JOHNSON Space Center PI Address 1: Human Research Program Chief Scientist Office PI Address 2: PI Web Page: City: Houston State: TX Zip Code: 77058 Congressional District: 36 NOTE: (January 2021): PI now at KBR/NASA JSC as of December 2020. Previously at innec USA from June 2019-November 2020, NASA JSC (KBRwyle) from August 2017 until spring 2019. Prior to August 2017, PI was with Universities Research Association. Project Type: GROUND Solicitation / Funding Source: No. of PhD Degrees: No. of PhD Degrees: No. of PhD Degrees: No. of PhD Degrees: No. of Master's Candidates: No. of Master's Candidates: No. of Bachelor's Candidates: No. of Regrees: No. of Bachelor's Candidates: No. of Regrees:	Human Research Program Risks:	(1) SANS:Risk of Spaceflight Associated Neuro-ocular Syndrome (SANS)		
Discipline: None None Space Biology Special Category: None Space Biology Special Category: None Space Biology Special Category: Nose Space Biology Special Category: NASA CENTER Phone: 832-576-6059 PI Organization Name: KBR/NASA Johnson Space Center Human Research Program Chief Scientist Office PI Address I: Human Research Program Chief Scientist Office PI Address 2: PI Web Page:	Space Biology Element:	None		
PI Email: Susana b. Zancello@masa_eov Fax: FY PI Organization Type: NASA CENTER Phone: 832-576-6059 Organization Name: KBR/NASA Johnson Space Center PI Address 1: Human Research Program Chief Scientist Office PI Address 2: PI Web Page: City: Houston Sitate: TX Zip Code: 77058 Congressional District: 36 Omments: NOTE (January 2021): PI now at KBR/NASA JSC as of December 2020. Previously at imee USA from June 2019-November 2020, NASA JSC (KBRwyle) from August 2017 until spring 2019. Prior to August 2017, PI was with Universities Space Research Association. Project Type: GROUND Solicitation / Funding Source: Health (FLAGSHIP & NSBRI) Start Date: 10/01/2015 Start Date: No. of Pab Degrees: No. of Master' Degrees: No. of Master's Candidates: No. of Master's Candidates: No. of Master's Candidates: No. of Master's Candidates: No. of Bachelor's Degrees: No. of Bachelor's Candidates: No. of Bachelor's Candidates: No. of Bachelor's Candidates: No. of Master's Candidates: No. of Bachelor's Candidates: No. of Master's Candidates: No. of Master's Candidates: No. of Master's Candidates: No. of Bachelor's Candidates: No.	1	None		
PI Organization Type: NASA CENTER Phone: 832-576-6059 Organization Name: KBR/NASA Johnson Space Center PI Address 1: Human Research Program Chief Scientist Office PI Address 2: PI Web Page: City: Houston State: TX Zip Code: 770-58 Congressional District: 36 Comments: NOTE (January 2021): PI now at KBR/NASA JSC as of December 2020. Previously at innec USA from June 2019-November 2020; NASA JSC (KBRwyle) from August 2017 until spring 2019. Prior to August 2017, PI was with Universities Space Research Association. Project Type: GROUND Solicitation / Funding 2013 HERO NNJ13ZSA002N-Crew Health (FLAGSHIP & NSBRI) Start Date: 10/01/2015 End Date: 09/30/2018 No. of Post Docs: No. of Master' Degrees: No. of Master's Candidates: No. of Master' Degrees: No. of Master's Candidates: No. of Master' Degrees: No. of Bachelor's Candidates: No. of Master' Degrees: No. of Bachelor's Candidates: No. of Master' Degrees: No. of Bachelor's Candidates: Norsk, Peter Contact Honitor: Norsk, Peter Contact Email: Peter norsk@mas.gov Flight Program: Flight Assignment: Key Personnel Changes/Previous PI: COI Name (Institution): Rivera, Adreana M.D. (Houston Methodist Hospital) Theriot, Corey Ph.D. (University of Texas Galveston) Cheve-Barrios, Particia M.D. (The Methodist Hospital) Theriot, Corey Ph.D. (University of Texas Galveston) Cheve-Barrios, Particia M.D. (The Methodist Hospital) Theriot, Corey Ph.D. (University of Texas Galveston) Cheve-Barrios, Particia M.D. (The Methodist Hospital) Theriot, Corey Ph.D. (University of Texas Galveston) Cheve-Barrios, Particia M.D. (The Methodist Hospital) Theriot, Corey Ph.D. (University of Texas Galveston) Cheve-Barrios, Particia M.D. (The Methodist Hospital) Program:	Space Biology Special Category:	None		
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PI Address 2: PI Web Page: City: Houston State: TX Zip Code: 77058 Congressional District: 36 Comments: NOTE (January 2021): PI now at KBR/NASA JSC as of December 2020. Previously at imee USA from June 2019-November 2020, NASA JSC (KBRwyle) from August 2017 until spring 2019. Prior to August 2017, PI was with Universities Space Research Association. Project Type: GROUND Solicitation / Funding Universities Page Research Association. Project Type: Inow at KBR/NASA JSC (KBRwyle) from August 2017 until spring 2019. Prior to August 2017, PI was with Universities Space Research Association. Project Type: GROUND Solicitation / Funding Solicitation / Funding Source: Health (FLAGSHIP & NSBRI) Start Date: 10/01/2015 End Date: 09/30/2018 No. of Post Docs: No. of PhD Degrees: No. of PhD Candidates: No. of Master' Degrees: No. of Master's Candidates: No. of Bachelor's Degrees: No. of Bachelor's Candidates: No. of Bachelor's Degrees: No. of Bachelor's Candidates: Norsk, Peter Contact Phone: Contact Monitor: Norsk, Peter Contact Phone: Contact Email: Peter. norsk@nasa.gov Flight Program: Flight Assignment: Key Personnel Changes/Previous PI: COI Name (Institution): Rivera, Adreana M.D. (Houston Methodist Hospital) Theriot. Corey Ph.D. (University of Texas Galveston) Chevez-Barrios, Patricia M.D. (The Methodist Hospital Research Institute) Grant/Contract No.: NNX15AW48G Performance Goal No.:	Organization Name:	KBR/NASA Johnson Space Center		
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Zip Code: 77058 Congressional District: 36	PI Web Page:			
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Performance Goal No.:	COI Name (Institution):	Theriot, Corey Ph.D. (University of Texas Galv	veston)	
	Grant/Contract No.:	NNX15AW48G		
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Task Book Report Generated on: 04/17/2024

Task Description:

The etiology of the Visual Impairment and Intracranial Pressure (VIIP) syndrome is unknown. It is hypothesized that weightlessness-induced cephalad fluid shift, possibly associated with elevated intracranial pressure (ICP), may play a critical role. Cerebrospinal fluid (CSF) dynamics changes may be involved in the ICP increase. Leveraging on an existing hindlimb suspension (HS) analog in rats, we propose to study the molecular aspects of CSF production and outflow modulation as a result of HS in the tissues involved in these two processes of CSF dynamics, namely choroid plexus (CP) and arachnoid granulations (AG), respectively. On available tissue shared from the parent animal experiment (cohorts 3 and 4), we will perform differential gene expression profiling in the CP and AG of rats subjected to HS and their normal posture controls. In addition, we will compare the ultrastructure of the CP and AG and the histologic localization and distribution of putative targets implicated in CSF dynamics (aquaporins and cellular junction proteins) of the CP and the endothelial cell layer of the venous sinuses, in normal posture and in HR rats within each cohort. The research groups involved in this proposal have the necessary resources and techniques in place at their laboratories in order to maximize the likelihood of success in this project. An anticipated product of this study is the reduction of the uncertainty in the likelihood or consequence of the visual impairment risk by gaining a study tool (validated animal model) and knowledge on the molecular basis of the biological processes involved in CSF dynamics changes generated by HS.

Rationale for HRP Directed Research:

Research Impact/Earth Benefits:

Task Progress:

New project for FY2016.

Bibliography Type:

Description: (Last Updated: 09/04/2023)