Task Book Report Generated on: 07/11/2025

Privance: Offsarion, Kerry M.D., Ph.D. Project Title: Local CNS and Systemic Inflammatory Effects Following Proton and Mixed Particle Exposure Program Discipline: HUMAN RESEARCH				
Project Title: Local CNS and Systemic Inflammatory Effects Following Proton and Mixed Particle Exposure Bitsion Name: Human Research Program/Discipline: HUMAN RESEARCH Program/Discipline: HUMAN RESEARCH-Radiation health Bitsinear/Sabdiscipline: Bitsinear/Sabdiscipline: HUMAN RESEARCH-Radiation health Bitsinear/Sabdiscipline: Robert B	Fiscal Year:	FY 2009 Task Last Update	d: FY 10/28/2008	
Division Name: Human Research Program/Discipline: HUMAN RESEARCH Program/Discipline- Element/Subdiscipline: HUMAN RESEARCH-Radiation health Human Research Program Elements: (1) SR-Space Radiation None Space Biology Element: None Program/Discipline: None	PI Name:	O'Banion, Kerry M.D., Ph.D.		
Program/Discipline: HUMAN RESEARCH Program/Discipline- Element/Subdiscipline- Element/Subdiscipline- Element/Subdiscipline- Element/Subdiscipline- HUMAN RESEARCH-Radiation health Human Research Program Elements: (1) SR-Space Radiation Human Research Program Risks: (1) SR-Space Radiation Human Research Program Risks: (1) BMedi-Risk of Adverse Cognitive or Behavioral Conditions and Psychiatric Disorders Space Biology Element: None Space Biology Element: None Space Biology Element: None Program/Discipline: None None Program/Discipline- Discipline: None None Program/Discipline- Discipline: None Program/Discipline- Discipline: None Program/Discipline- Discipline: None Program/Discipline- Discipline: None None Program/Discipline- Discipline: None Program/Discipline: None Discipline: None	Project Title:	Local CNS and Systemic Inflammatory Effects Following Proton and Mixed Particle Exposure		
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Human Research Program Elements: (1) SR-Space Radiation Human Research Program Risks: (1) BMcdt-Risk of Advense Cognitive or Behavioral Conditions and Psychiatric Disorders Space Biology Cross-Element: None Space Biology Cross-Element: None Space Biology Special Category: None PI Email: kerry obminin@arms.nochealer.edu Fax: PY 585-756-5334 PI Organization Type: UNIVERSITY Phone: 585-275-5185 Organization Name: University of Rochester PI Address 1: Box 603 PI Address 2: 601 Elmwood Ave PI Web Page: City: Rochester State NY Zalp Code: 1464-2001 Congressional District: 25 Comments: Project Type: Ground Solicitation / Funding 2008 Space Radiobiology None of Path Deep Comments: No. of Post Does: No. of Master' Degrees: No. of PhD Candidates: No. of Master' Degrees: No. of Bachelor's Candidates: No. of Bachelor's Degrees: No. of Bachelor's Candidates: Monitoring Center: No. of Bachelor's Degrees: No. of Bachelor's Candidates: Cucinotta, Francis Contact Homitor: Cucinotta, Francis nonecessionsis nov Flight Assignmen: Fight Assignmen: Key Personnel Changes/Previous PI: COI Name (Institution): Silestein, Jacob (University of Rochester School of Medicine) Williams, Jacqueline (University of Rochester School of Medicine)	Program/Discipline Element/Subdiscipline:	HUMAN RESEARCHRadiation health		
Human Research Program Risks: (1) BMed:Risk of Adverse Cognitive or Behavioral Conditions and Psychiatric Disorders Space Biology Cross-Flement Space Biology Cross-Flement Space Biology Special Category: None PI Email: kerry obanion@mme.rochester.edu Fax: FY 585-756-5334 PI Organization Type: UNIVERSITY Phone: 585-275-5185 Organization Name: University of Rochester PI Address 1: Box 603 PI Address 2: 601 Elmwood Ave PI Web Page: City: Rochester City: Rochester City: Rochester Froject Type: Ground Congressional District: 25 Comments: Project Type: Ground Solicitation / Funding 2008 Space Radiobiology Source: NNIOR/ZSAODIN Start Date: 11/01/2008 End Date: 10/31/2012 No. of Pab Deardidates: No. of PhD Degrees: No. of PhD Candidates: No. of Master' Degrees: No. of Backelor's Candidates: No. of Backelor's Degrees: No. of Backelor's Candidates: One of Master' Degrees: No. of Backelor's Degrees: No. of Backelor's Candidates: Contact Humit: One of Contact Humit: No. of Master's Contact Humit: One of Contact Humit: No. of Contac	Joint Agency Name:	TechPort:	No	
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Pl Organization Type: UNIVERSITY Phone: 585-275-5185 Organization Name: University of Rochester Pl Address 1: Box 603 Pl Address 2: 601 Elmwood Ave Pl Web Page: City: Rochester State: NY Zip Code: 14642-0001 Congressional District: 25 Comments: Project Type: Ground Solicitation / Funding Source: NNIORZSA001N Start Date: 11/01/2008 End Date: 10/31/2012 No. of Post Does: No. of PhD Degrees: No. of PhD Candidates: No. of Master' Degrees: No. of Master's Candidates: No. of Bachelor's Degrees: No. of Master's Candidates: Contact Monitor: Cucinottla, Francis Contact Phone: 281-483-0968 Contact Email: noaccess@nass.gov Flight Assignment: Key Personnel Changes/Previous Pl: COI Name (Institution): Since Cucinottla, Jacqueline (University of Rochester School of Medicine) Williams, Jacqueline (University of Rochester School of Medicine) Williams, Jacqueline (University of Rochester School of Medicine) Hurley, Sean (University of Rochester School of Medicine) Grant/Contract No.: NNX08BA09G Performance Goal No.:	Space Biology Special Category:	None		
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This proposal continues our investigation of inflammatory responses following exposure to space radiation. In particular, we will explore the effects of protons and mixed particle radiation, at doses and fluences expected during space travel, in the brain and lung as well as the systemic circulation of mice. Dose and time dependent alteration in inflammatory indices will be correlated with brain and lung degenerative changes, including failure of hippocampal neurogenesis and alterations in hippocampal dependent learning. We will also explore whether space radiation influences Alzheimer's disease pathogenesis using a unique transgenic mouse model and lung inflammation following challenge with inhaled lipopolysaccharide. Together these studies will address specific gaps in our current knowledge about the acute and late effects of space radiation on vulnerable tissues.

Rationale for HRP Directed Research:

Research Impact/Earth Benefits:

Task Progress:

New project for FY2009.

Bibliography Type:

Description: (Last Updated: 03/11/2025)