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Prince: O'Banion, Kerry M.D., Ph.D. Project Title: Local CNS and Systemic Inflammatory Effects Following Proton and Mixed Particle Exposure Dixion Name: Juman Research Program/Dicipline- Element/Subdiscipline: HUMAN RESEARCH Program/Dicipline- Element/Subdiscipline: IIUMAN RESEARCH-Radiation health Joint Agency Name: Tech Port: No Joint Agency Name: No Joint Agency				
Project Title: Local CNS and Systemic Inflammatory Effects Following Proton and Mixed Particle Exposure Division Name: Human Research Program/Discipline: HUMAN RESEARCH Program/Discipline: HUMAN RESEARCH—Radiation bealth Joint Agency Name: TechPort: No Human Research Program Elements: (I) SR-Space Radiation Human Research Program Risks: (I) BMcd/Risk of Adverse Cognitive or Behavioral Conditions and Psychiatric Disordurs Space Biology Cross-Element: None Space Biology Special Category: None PI Email: Lerry obstrion/Juma-rochester-solu PI Organization Type: UNIVERSITY Phone: S85-275-185 Organization Name: University of Rochester PI Address 1: Box 603 PI Address 2: 601 Elmwood Ave PI Web Page: City: Rochester Sanch Page Solution Funding 2008 Space Radiobiology Sancre: None Program Risks: No. of Research Program Risks: No. of Babb Degrees: No. of Pab Deardiation Type: UNIVERSITY Of Congressional District: 25 Comments: Project Type: GROUND Solicitation Funding 2008 Space Radiobiology	Fiscal Year:	FY 2009 Task Last Update	d: FY 10/28/2008	
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Human Research Program Risks: Space Biology Element: None None None Space Biology Cross-Flement Discipline: Space Biology Cross-Flement Discipline: Space Biology Special Category: None PI Email: kerry obanion@imme.rochester.edu Fax: FY 585-756-5334 PI Organization Type: UNIVERSITY Phone: 585-275-5185 Organization Name: University of Rochester PI Address 2: Box 603 PI Address 2: 601 Elmwood Ave PI Web Page: City: Rochester City: Rochester GROUND Solicitation / Funding Source: NNUORESAO(DIN) Start Date: 11/01/2008 Salicitation / Funding Source: NNUORESAO(DIN) Start Date: 11/01/2008 Salicitation / Funding Source: NNUORESAO(DIN) Start Date: No. of PhD Candidates: No. of Master's Candidates: No. of Master' Candidates: No. of Master's Candidates: No. of Backelor's Candidates: No. of Master's C	Joint Agency Name:	TechPort:	No	
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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: 02/16/2024)