Task Book Report Generated on: 04/20/2024

Project Title: The Effects of Space Radiation on Stem Cells and Vascular and Cardiac Disease Division Name: Human Research Program/Discipline: IUMAN RESEARCH Program/Discipline: HUMAN RESEARCH Program/Discipline: HUMAN RESEARCH—Radiation health Diencet/Subdiscipline: HUMAN RESEARCH—Radiation health Diencet/Subdiscipline: No Human Research Program Risks: OF Cardiovascular Adaptations Contributing to Adverse Mission Performance and Health Outcomes Space Biology Element: None Space Biology Cross-Flement Discipline: None Space Biology Special Category: None PF Email: insentee/@imdunderson.org.nussiller@imd.com Fax: FY PF Organization Type: UNIVERSITY Pf Organization Type: UNIVERSITY Pf Address 1: 1515 Holcombe Boulevard Pf Address 2: University of Texas MD Anderson Cancer Center Pf Address 2: University of Texas MD Anderson Cancer Center Pf Address 3: University of Texas MD Anderson Cancer Center Pf Address 3: University of Texas MD Anderson Cancer Center Pf Address 4: University of Texas MD Anderson Cancer Center Pf Address 4: University of Texas MD Anderson Cancer Center Pf Address 5: University of Texas MD Anderson Cancer Center Pf Address 6: University of Texas MD Anderson Cancer Center Pf Address 6: University of Texas MD Anderson Cancer Center Pf Address 7: University of Texas MD Anderson Cancer Center Pf Address 8: University of Texas MD Anderson Cancer Center Pf Address 8: University of Texas MD Anderson Cancer Center Pf Address 9: University of Texas MD Anderson Cancer Center Pf Address 9: University of Texas MD Anderson Cancer Center Pf Address 9: University of Texas MD Anderson Cancer Center Pf Address 9: University of Texas MD Anderson Cancer Center Pf Address 9: University of Texas MD Anderson Cancer Center Pf Address 9: University of Texas MD Anderson Cancer Center Pf Address 9: University of Texas MD Anderson Cancer Center Pf Address 9: University of Texas MD Ander				
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Division Name: Human Research Frogram/Discipline: HUMAN RESEARCH Frogram/Discipline: HUMAN RESEARCH Frogram/Discipline: HUMAN RESEARCH Frogram/Discipline: HUMAN RESEARCH - Radiation health Human Research Program Elements: (1) SR-Space Radiation Human Research Program Rikst: (1) SR-Space Radiation (1) SR-Space Radia	PI Name:	McNiece, Ian Ph.D.		
Program/Discipline: HUMAN RESEARCH Program/Discipline- Element/Subdiscipline- Element/Subdiscipline- Joint Agency Name: TechPort: No Human Research Program Elements: (1) SR/Space Radiation Human Research Program Elements: (1) SR/Space Radiation Human Research Program Risks: (1) SR/Space Radiation None Space Biology Special Category: None Plemal: None Space Biology Special Category: None Plemal: Individual Program Risks: (1) SR/Space Radiation Human: Plemal: Individual Program Risks: (1) SR/Space Radiation Human: Plemal: Plemal	Project Title:	The Effects of Space Radiation on Stem Cells and Y	Vascular and Cardiac Disease	
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Element/Subdiscipline: FIGNAN RESEARCH - Radiation Reann Joint Agency Name: It man Research Program Elements: (1) SR-Space Radiation Human Research Program Risks: Outcomes Space Biology Element: None Space Biology Cross-Element None Space Biology Special Category: None PE Email: imenices@midandernon.org. aussifler@aol.com Fax: FY Pl Organization Type: UNIVERSITY Phone: 713-563-4800 Organization Name: University of Texas MD Anderson Cancer Center PI Address 1: 1515 Holcombe Boulevard PI Address 2: Unit Number: 0065 PI Web Page: City: Houston State: TX Zip Code: 7703-04009 Congressional District: 9 Comments: Project Type: GROUND Sulicitation / Funding 2010 Space Radiabiology Source No. of Post Docs: No. of Post Docs: No. of Post Docs: No. of Post Docs: No. of Master' Degrees: 0 No. of Master' Scandidates: No. of Bachelor's Candidates: No. of Master' Degrees: 0 No. of Master Degrees: 0 No	Program/Discipline:	HUMAN RESEARCH		
Human Research Program Elements: (1) SR-Space Radiation Human Research Program Risks: (1) Cardiovascular-Risk of Cardiovascular Adaptations Contributing to Adverse Mission Performance and Health Outcomes Space Biology Cross-Element Space Biology Special Category: None PI Email: imenicaci@mdanderson.org. aussifiler@aol.eom Fax: FY PI Organization Type: UNIVERSITY Phone: 713-563-4890 Organization Type: UNIVERSITY Phone: 713-563-4890 Organization Name: University of Texas MD Anderson Cancer Center PI Address 1: 1515 Iloleombe Boulevard PI Address 2: Unit Number: 0065 PI Web Page: City: Houston State: TX Zip Code: 77030-4009 Congressional District: 9 Comments: Project Type: GROUND Solicitation / Funding 2010 Space Radiobiology Source: NNIIOZSA001N Start Date: 0123/2013 End Date: 10/31/2014 No. of Post Does: 0 No. of PhD Degrees: 0 No. of Post Does: 0 No. of Master' Degrees: 0 No. of Master's Candidates: 0 No. of Master' Degrees: 0 No. of Master's Candidates: 0 No. of Master' Degrees: 0 No. of Master's Candidates: 0 Monitoring Center: NASA JSC Contact Email: lise a simonsens@mass.nov Flight Assignment: NOTE: End date changed to 10/31/2014 (original end date was 1/22/2014), per NSSC information (Ed., 9/23/14) NOTE: End date changed to 10/31/2014 (original end date was 1/22/2014), per NSSC information (Ed., 1/24/13) Key Personnel Changes/Previous PI: None COI Name (Institution): Guja, Seema (Biophysics Research Institute of America (BPRIA)) Wu, Xiaodong (Biophysics Research Institute of America (BPRIA))	Program/Discipline Element/Subdiscipline:	HUMAN RESEARCHRadiation health		
Human Research Program Risks: Oli Cardiovascular-Risk of Cardiovascular Adaptations Contributing to Adverse Mission Performance and Health Olitocomes Space Biology Cross-Element None Space Biology Special Category: None Pl Email: Interview of Texas MD Anderson Cancer Center Pl Corganization Type: UNIVERSITY Phone: 713-563-4800 Organization Name: University of Texas MD Anderson Cancer Center Pl Address 1: 1515 Holcombe Boulevard Pl Address 2: Unit Number: 0065 Pl Web Page: City: Houston State: TX Zip Code: 77030-4009 Congressional District: 9 Comments: Project Type: GROUND Solicitation Funding 2010 Space Radiobiology Source: NNJ1072SA001N Start Date: 01/23/2013 End Date: 10/31/2014 No. of Post Does: 0 No. of PhD Candidates: 0 No. of Master's Candidates: 0 No. of Master's Candidates: 0 No. of Master's Candidates: 0 No. of Bachelor's Candidates: NOTE: End date changed to 10/31/2014 (original end date was 1/22/2014), per NSSC information (Ed., 9/23/14) NOTE: End date changed to 10/31/2014 (original end date was 1/22/2014), per NSSC information (Ed., 9/23/14) NOTE: End date changed to 10/31/2014 (original end date was 1/22/2014), per NSSC information (Ed., 12/4/13) Key Personnel Changes/Previous Pl: None COI Name (Institution): Supply Seema (Biophysics Research Institute of America (BPRIA)) Wu, Xiaodong (Biophysics Research Institute of America (BPRIA)) NNX13AF05G	Joint Agency Name:		TechPort:	No
Space Biology Cross-Element Space Biology Cross-Element Discipline: None PI Enail: imeniese@mdanderson.org. aussiflier@aol.com Fax: FY PI Organization Type: UNIVERSITY Phone: 713-563-4800 Organization Name: University of Texas MD Anderson Cancer Center PI Address 1: 1515 Holcombe Boulevard PI Address 2: Unit Number: 0065 PI Web Page: City: Houston State: TX Zip Code: 77030-4009 Congressional District: Project Type: GROUND Solicitation / Funding Source: NN110ZSA001N State: No. of Post Does: 0 1232013 End Date: 1031/2014 No. of Post Does: 0 No. of PhD Degrees: 0 No. of PhD Degrees: 0 No. of PhD Degrees: 0 No. of Master's Candidates: 0 No. of Master's Candidates: 0 No. of Bachelor's Candidates: 0 No. of Bachelor's Candidates: 0 No. of Bachelor's Candidates: No. of Enail: Isas c.simonsen@mass.gov Flight Program: NOTE: End date changed to 10/31/2014 (original end date was 1/22/2014), per NSSC information (Ed., 12/4/13) Key Personnel Changes/Previous PI: NOTE: End date changed to 10/31/2014 (original end date was 1/22/2014), per NSSC information (Ed., 12/4/13) Key Personnel Changes/Previous PI: None COI Name (Institution): Wux, Xiaodong (Biophysics Research Institute of America (BPRIA)) Wux, Xiaodong (Biophysics Research Institute of America (BPRIA)) Wux, Xiaodong (Biophysics Research Institute of America (BPRIA)) Performance Goal No.:	Human Research Program Elements:	(1) SR:Space Radiation		
Space Biology Cross-Element Discipline: Space Biology Special Category: None PI Email: Interview of Texas MD Anderson Cancer Center PI Address 1: 1515 Holcombe Boulevard PI Address 2: Unit Number: 0065 PI Web Page: City: Houston Toganization / Free State: Toganization State: TX Comments: Project Type: GROUND Solicitation / Funding 2010 Space Radiobiology Source: No. of Path Ducres: 0 No. of Pho Ducres: No. of Pho Ducres: No. of Master's Candidates: 0 No. of Master' Degrees: One Monitoring Center: No. of Bachelor's Candidates: 0 No. of Bachelor's Candidates: 0 No. of Bachelor's Candidates: NOTE: End date changed to 10/31/2014 (original end date was 1/22/2014), per NSSC information (Ed., 12/4/13) Key Personnel Changes/Previous PI: Note Col Name (Institution): Grapts, Secma (Biophysics Research Institute of America (BPRIA)) Wu, Xiaodong (Performance Goal No.:	Human Research Program Risks:		tions Contributing to Adverse Miss	sion Performance and Health
Space Biology Special Category: None Space Biology Special Category: Space Biology Biology Biology Space Biology B	Space Biology Element:	None		
PI Email: imeniece@mlanderson.org.aussifiler@aol.com Fax: FY PI Organization Type: UNIVERSITY Phone: 713-563-4800 Organization Name: University of Texas MD Anderson Cancer Center PI Address 1: 1515 Holcombe Boulevard PI Address 2: Unit Number: 0065 PI Web Page: City: Houston State: TX Zip Code: 77030-4009 Congressional District: 9 Comments: Project Type: GROUND Solicitation / Funding 2010 Space Radiobiology Source: NNJI0ZSA00IN Start Date: 0123/2013 End Date: 10/31/2014 No. of Post Docs: 0 No. of PhD Degrees: 0 No. of PhD Candidates: 0 No. of PhD Degrees: 0 No. of Master's Candidates: 0 No. of Bachelor's Degrees: 0 No. of Bachelor's Candidates: 0 No. of Bachelor's Degrees: 0 No. of Bachelor's Candidates: 0 Monitoring Center: NASA JSC Contact Monitor: Simonsen, Lisa Contact Phone: Contact Email: lisa e. simonsen@mass.gov Flight Program: NOTE: End date changed to 10/31/2014 (original end date was 1/22/2014), per NSSC information (Ed., 9/23/14) NOTE: End date changed to 7/31/2014 (original end date was 1/22/2014), per NSSC information (Ed., 1/24/13) Key Personnel Changes/Previous PI: None COI Name (Institution): Office of None (Biophysics Research Institute of America (BPRIA)) Wu, Xiaodong (Biophysics Research Institute of America (BPRIA)) Wu, Xiaodong (Biophysics Research Institute of America (BPRIA)) Wu, Xiaodong (Biophysics Research Institute of America (BPRIA)) Program: NXII3AF05G	Space Biology Cross-Element Discipline:	None		
Pl Organization Type: UNIVERSITY Phone: 713-563-4800 Organization Name: University of Texas MD Anderson Cancer Center Pl Address 1: 1515 Holcombe Boulevard Pl Address 2: Unit Number: 0065 Pl Web Page: City: Houston State: TX Zip Code: 77030-4009 Congressional District: 9 Comments: Project Type: GROUND Solicitation / Funding 2010 Space Radiobiology Source: NN110ZSA001N Start Date: 01/23/2013 End Date: 10/31/2014 No. of Post Does: 0 No. of PhD Degrees: 0 No. of PhD Candidates: 0 No. of Master' Degrees: 0 No. of Master's Candidates: 0 No. of Master' Degrees: 0 No. of Master's Candidates: 0 No. of Master' Degrees: 0 No. of Bachelor's Candidates: 0 Monitoring Center: NASA JSC Contact Monitor: Simonsen, Lisa Contact Phone: Contact Email: lisa e. simonsen@nasa.gov Flight Program: NOTE: End date changed to 10/31/2014 (original end date was 1/22/2014), per NSSC information (Ed., 9/23/14) NOTE: End date changed to 7/31/2014 (original end date was 1/22/2014), per NSSC information (Ed., 12/4/13) Key Personnel Changes/Previous Pl: None COI Name (Institution): Qupta, Seema (Biophysics Research Institute of America (BPRIA)) Wu, Xiaodong (Biophysics Research Institute of America (BPRIA)) Wu, Xiaodong (Biophysics Research Institute of America (BPRIA)) Program: Contract No.: NNX13AFOSG	Space Biology Special Category:	None		
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Pl Address 1: 1515 Holcombe Boulevard	PI Organization Type:	UNIVERSITY	Phone:	713-563-4800
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Comments: Project Type: GROUND Solicitation / Funding Source: NJ10ZSA001N Start Date: 01/23/2013 End Date: 10/31/2014 No. of Post Docs: 0 No. of PhD Degrees: 0 No. of PhD Candidates: 0 No. of Master' Degrees: 0 No. of Master's Candidates: 0 No. of Bachelor's Degrees: 0 No. of Bachelor's Candidates: 0 Monitoring Center: NASA JSC Contact Monitor: Simonsen, Lisa Contact Phone: Contact Email: lisa.c. simonsen/@nasa.gov Flight Program: NOTE: End date changed to 10/31/2014 (original end date was 1/22/2014), per NSSC information (Ed., 9/23/14) NOTE: End date changed to 7/31/2014 (original end date was 1/22/2014), per NSSC information (Ed., 12/4/13) Key Personnel Changes/Previous PI: None COI Name (Institution): Gupta, Seema (Biophysics Research Institute of America (BPRIA)) Wu, Xiaodong (Biophysics Research Institute of America (BPRIA)) Performance Goal No.:	City:	Houston	State:	TX
Project Type: GROUND Solicitation / Funding Source: NN110ZSA001N Start Date: 01/23/2013 End Date: 10/31/2014 No. of Post Docs: 0 No. of PhD Degrees: 0 No. of PhD Candidates: 0 No. of Master' Degrees: 0 No. of Master's Candidates: 0 No. of Master's Degrees: 0 No. of Bachelor's Degrees: 0 No. of Bachelor's Candidates: 0 No. of Bachelor's Degrees: 0 No. of Bachelor's Candidates: Contact Monitor: Simonsen, Lisa Contact Phone: Contact Email: Jisa.c.simonsen@nasa.gov Flight Program: NOTE: End date changed to 10/31/2014 (original end date was 1/22/2014), per NSSC information (Ed., 9/23/14) NOTE: End date changed to 7/31/2014 (original end date was 1/22/2014), per NSSC information (Ed., 12/4/13) Key Personnel Changes/Previous PI: None COI Name (Institution): Gupta, Seema (Biophysics Research Institute of America (BPRIA)) Wu, Xiaodong (Biophysics Research Institute of America (BPRIA)) Grant/Contract No.: NNX13AF05G	Zip Code:	77030-4009	Congressional District:	9
Source: NNJ10ZSA001N Start Date: 01/23/2013 End Date: 10/31/2014 No. of Post Docs: 0 No. of PhD Degrees: 0 No. of PhD Candidates: 0 No. of Master' Degrees: 0 No. of Master's Candidates: 0 No. of Bachelor's Degrees: 0 No. of Bachelor's Candidates: 0 Monitoring Center: NASA JSC Contact Monitor: Simonsen, Lisa Contact Phone: Contact Email: lisa.e.simonsen@nasa.gov Flight Program: NOTE: End date changed to 10/31/2014 (original end date was 1/22/2014), per NSSC information (Ed., 9/23/14) NOTE: End date changed to 7/31/2014 (original end date was 1/22/2014), per NSSC information (Ed., 12/4/13) Key Personnel Changes/Previous PI: None COI Name (Institution): Gupta, Seema (Biophysics Research Institute of America (BPRIA)) Wu, Xiaodong (Biophysics Research Institute of America (BPRIA)) Performance Goal No.:	Comments:			
No. of Post Docs: 0	Project Type:	GROUND		
No. of PhD Candidates: 0	Start Date:	01/23/2013	End Date:	10/31/2014
No. of Master's Candidates: 0	No. of Post Docs:	0	No. of PhD Degrees:	0
No. of Bachelor's Candidates: Contact Monitor: Simonsen, Lisa Contact Phone: Contact Email: lisa.c.simonsen@nasa.gov Flight Program: NOTE: End date changed to 10/31/2014 (original end date was 1/22/2014), per NSSC information (Ed., 9/23/14) NOTE: End date changed to 7/31/2014 (original end date was 1/22/2014), per NSSC information (Ed., 12/4/13) Key Personnel Changes/Previous PI: COI Name (Institution): Gupta, Seema (Biophysics Research Institute of America (BPRIA)) Wu, Xiaodong (Biophysics Research Institute of America (BPRIA)) Grant/Contract No.: NNX13AF05G Performance Goal No.:	No. of PhD Candidates:	0	No. of Master' Degrees:	0
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Contact Email: lisa.c.simonsen@nasa.gov Flight Program: NOTE: End date changed to 10/31/2014 (original end date was 1/22/2014), per NSSC information (Ed., 9/23/14) NOTE: End date changed to 7/31/2014 (original end date was 1/22/2014), per NSSC information (Ed., 12/4/13) Key Personnel Changes/Previous PI: None COI Name (Institution): Gupta, Seema (Biophysics Research Institute of America (BPRIA)) Wu, Xiaodong (Biophysics Research Institute of America (BPRIA)) Grant/Contract No.: NNX13AF05G Performance Goal No.:	No. of Bachelor's Candidates:	0	Monitoring Center:	NASA JSC
Flight Program: NOTE: End date changed to 10/31/2014 (original end date was 1/22/2014), per NSSC information (Ed., 9/23/14) NOTE: End date changed to 7/31/2014 (original end date was 1/22/2014), per NSSC information (Ed., 12/4/13) Key Personnel Changes/Previous PI: None COI Name (Institution): Gupta, Seema (Biophysics Research Institute of America (BPRIA)) Wu, Xiaodong (Biophysics Research Institute of America (BPRIA)) Wu, Xiaodong (Biophysics Research Institute of America (BPRIA)) NNX13AF05G Performance Goal No.:	Contact Monitor:	Simonsen, Lisa	Contact Phone:	
NOTE: End date changed to 10/31/2014 (original end date was 1/22/2014), per NSSC information (Ed., 9/23/14) NOTE: End date changed to 7/31/2014 (original end date was 1/22/2014), per NSSC information (Ed., 12/4/13) Key Personnel Changes/Previous PI: None COI Name (Institution): Gupta, Seema (Biophysics Research Institute of America (BPRIA)) Wu, Xiaodong (Biophysics Research Institute of America (BPRIA)) NNX13AF05G Performance Goal No.:	Contact Email:	lisa.c.simonsen@nasa.gov		
Flight Assignment: NOTE: End date changed to 7/31/2014 (original end date was 1/22/2014), per NSSC information (Ed., 12/4/13) Key Personnel Changes/Previous PI: None COI Name (Institution): Gupta, Seema (Biophysics Research Institute of America (BPRIA)) Wu, Xiaodong (Biophysics Research Institute of America (BPRIA)) NNX13AF05G Performance Goal No.:	Flight Program:			
COI Name (Institution): Gupta, Seema (Biophysics Research Institute of America (BPRIA)) Wu, Xiaodong (Biophysics Research Institute of America (BPRIA)) Grant/Contract No.: NNX13AF05G Performance Goal No.:	Flight Assignment:			
Wu, Xiaodong (Biophysics Research Institute of America (BPRIA)) Grant/Contract No.: NNX13AF05G Performance Goal No.:	Key Personnel Changes/Previous PI:	None		
Performance Goal No.:	COI Name (Institution):			
	Grant/Contract No.:	NNX13AF05G		
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Task Book Report Generated on: 04/20/2024

Task Description:	The integrity of organs and tissues is maintained through continued cell production to replace damaged or senescent cells. In particular stem cells are pivotal to this process providing the primary source for production of functional cells. In the heart, cardiac stem cells (CSCs) reside in close proximity to stromal cells or mesenchymal stem cells (MSCs) that produce proteins that control the growth and development. Stem cells are quiescent cells that cycle through self replication very slowly. This decreases the ability of these cells to repair damage to DNA and may lead to increased risks of vascular and heart disease. In this application we will evaluate the effects of exposure of stem cells to spaceflight-relevant radiation. Methods: The methods to be used involve exposing stem cells to radiation and evaluating the performance of the stem cells in models of vascular and cardiac disease. Significance: These studies will provide insights into the potential of increased risks for vascular and cardiac disease due to radiation during spaceflight. The completion of this work will provide models of stem cell damage that can be used to define the underlying mechanisms and possible treatment.
Rationale for HRP Directed Research	h:
Research Impact/Earth Benefits:	The proposed studies will provide critical information on the effects of radiation on cardiac stem cells and cardiac derived stromal cells.
Task Progress:	The studies have been delayed. At present we are isolating and expanding our stem cell lines to initiate radiation experiments. We have scheduled time at Bookhaven for use of their facilities in the spring of 2014.
Bibliography Type:	Description: (Last Updated:)