Task Book Report Generated on: 04/24/2024

Fiscal Year:	FY 2016 Task Last Upda	nted: FY 04/07/2016
PI Name:	Klerman, Elizabeth B. M.D., Ph.D.	
Project Title:	Ultra-Short Light Pulses as Efficient Countermeasures for Circadian Misalignment at Subjective Alertness Decrements	nd Objective Performance and
Division Name:	Human Research	
Program/Discipline:		
Program/Discipline Element/Subdiscipline:	NSBRIHuman Factors and Performance Team	
Joint Agency Name:	TechPort:	No
Human Research Program Elements:	(1) HFBP:Human Factors & Behavioral Performance (IRP Rev H)	
Human Research Program Risks:	None	
Space Biology Element:	None	
Space Biology Cross-Element Discipline:	None	
Space Biology Special Category:	None	
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PI Organization Type:	UNIVERSITY	one: 617-732-8145
Organization Name:	Brigham and Women's Hospital/Harvard Medical Center	
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PI Address 2:	Division of Sleep Medicine	
PI Web Page:		
City:	Boston	tate: MA
Zip Code:	02115-5804 Congressional Disc	rict: 8
Comments:		
Project Type:	GROUND Solicitation / Fun	ding Directed Research
Start Date:	03/01/2016 End I	Date: 05/31/2017
No. of Post Docs:	No. of PhD Deg	rees:
No. of PhD Candidates:	No. of Master' Deg	rees:
No. of Master's Candidates:	No. of Bachelor's Deg	rees:
No. of Bachelor's Candidates:	Monitoring Ce	nter: NSBRI
Contact Monitor:	Contact Ph	one:
Contact Email:		
Flight Program:		
Flight Assignment:	NOTE: End date changed to 5/31/2017 (original end date was 2/28/2017) per NSBRI	(Ed., 3/2/17)
Key Personnel Changes/Previous PI:		
COI Name (Institution):		
Grant/Contract No.:	NCC 9-58-HFP00006	
Performance Goal No.:		
Performance Goal Text:		
	NOTE: Follow-on as a directed research project to Dr. Klerman's National Space Biomedical Research Institute project "Ultra-Short Light Pulses as Efficient Countermeasures for Circadian Misalignment and Objective Performance and Subjective Alertness Decrements"; project NCC 9-58-HFP02802. The Principal Investigator will be looking at the effect of lighting and exercise on circadian rhythm as a countermeasure.	
	Specific Aim 1: To test the hypothesis that the addition of moderate-intensity exercis stimuli will increase the circadian phase shift relative to light exposure without exerc	
	Specific Aim 2: To test the hypothesis that the addition of moderate-intensity exercise	e to short intermittent bright light

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Specific Aim 3: To test the hypothesis that the addition of moderate-intensity exercise to short intermittent bright light stimuli will increase subjective alertness during the stimuli relative to light exposure without exercise.

Specific Aim 4: To test the hypothesis that the addition of moderate-intensity exercise to short intermittent bright light stimuli will improve objective and subjective sleep latency and total sleep time during the nights after the stimuli relative to light exposure without exercise.

Research Impact/Earth Benefits:

New project for FY2016.
(Ed. note 4/7/2016: Follow-on as a directed research project to Dr. Klerman's National Space Biomedical Research Institute project "Ultra-Short Light Pulses as Efficient Countermeasures for Circadian Misalignment and Objective Performance and Subjective Alertness Decrements," project NCC 9-58-HFP02802.)

Bibliography Type:

Description: (Last Updated: 10/26/2023)