Task Book Report Generated on: 04/24/2024

Fixed Years				
Project Title: Stabilized Foods for Use in Extended Spaceflight: Preservation of Shelf-Life, Nutrient Content and Acceptability Division Name: Human Research Human Research Program/Discipline: HUMAN RESEARCH Program/Discipline- Element/Subdiscipline: HUMAN RESEARCH-Space Human Factors Engineering HUMAN RESEARCH-Space Human Research Program Elements: (1) HHC:Human Health Countermeasures Human Research Program Elements: (1) HHC:Human Health Countermeasures Human Research Program Ribis: (1) Food and Nutrition/Risk of Performance Decrement and Crew Illness Due to Inadequate Food and Nutrition Space Biology Element: None Space Biology Stellement: None Space Biology Special Category: None PI Email: mnh.barrett.civ@mii.lmil Fax: FY PI Organization Type: GOVERMENT Phone: 508-233-4516 Organization Name: United States Department of the Army PI Address 1: NSDREG, CEDPORT, RDNS-CFP PI Address 2: U.S. Army Natick Soldier Systems Center PI Web Page: City: Natick Soldier Systems Center PI Web Page: City: Natick Soldier Systems Center PI Veb Page: Comments: Project Type: GROUND Solicitation / Funding 2011 Crew Health Source: NN. 11/2SA002NA Start Date: 110/12012 End Dute: 10/31/2015 No. of Pat Doest: No. of Bachelor's Degrees: No. of Bachelor's Candidates: No. of Bachelor's Candidates: No. of Master' Degrees: No. of Bachelor's Candidates: No. of Bachelor's Degrees: No. of Bachelor's Candidates: No. of Bachelor's Candidat	Fiscal Year:	FY 2013	Task Last Updated:	FY 10/24/2012
Division Name:   Human Research	PI Name:	Barrett, Ann Ph.D.		
Program/Discipline:         HUMAN RESEARCH           Program/Discipline-Element/Subdiscipline:         HUMAN RESEARCH-Space Human Factors Engineering           Joint Agency Name:         TechPort:         No           Human Research Program Elements         (1) HuC-Human Health Countermeasures           Human Research Program Risks:         (1) Food and Nutrition Risks of Performance Decrement and Crew Illness Due to Inadequate Food and Nutrition           Space Biology Element:         None           Space Biology Special Category:         None           Place Biology Special Category:         None           Ple Email:         Fax:         FY           Pl Canalization Type:         GOVERNMENT         Phone:         508-233-4516           Organization Name:         United States Department of the Army         Project Type:         Space Biology Special Category:         Natick Army Natick Soldier Systems Center           Pl Address 1:         Natick States Department of the Army         Natick States Ma         State:         Ma           City:         Natick States Department of the Army         Natick States Ma         State:         Ma           City:         Natick States Department of the Army Source:         Natick States Ma         Natick States Ma           City:         GROUND         Solicitation Funding Source:         No.11/12/20/20/20/	Project Title:	Stabilized Foods for Use in Extended Spaceflight	nt: Preservation of Shelf-Life, Nutr	ient Content and Acceptability
Program/Discipline-  Element/Subdiscipline-  Element/Subdiscipline-  Element/Subdiscipline-  IlluMAN RESEARCH-Space Human Factors Engineering   No	Division Name:	Human Research		
Flement/Subdiscipline:   IOMAN RESEARCH-Space Human Factors Engineering   Ioman Research Program Elements   (I)   Ifficiliuman Health Countermensures   Ilaman Research Program Risks: (I)   Food and Nutrition-Risk of Performance Decrement and Crew Illness Due to Inadequate Food and Nutrition Risks of Performance Decrement and Crew Illness Due to Inadequate Food and Nutrition Risks of Performance Decrement and Crew Illness Due to Inadequate Food and Nutrition Risks of Performance Decrement and Crew Illness Due to Inadequate Food and Nutrition Risks of Performance Decrement and Crew Illness Due to Inadequate Food and Nutrition Risks of Performance Decrement and Crew Illness Due to Inadequate Food and Nutrition Risks of Performance Decrement and Crew Illness Due to Inadequate Food and Nutrition Risks of Performance Decrement and Crew Illness Due to Inadequate Food and Nutrition Risks of Performance Decrement and Crew Illness Due to Inadequate Food and Nutrition Risks of Performance Decrement and Crew Illness Due to Inadequate Food and Nutrition Risks of Performance Decrement and Crew Illness Risks Due to Inadequate Food and Nutrition Risks of Performance Decrement and Crew Illness Risks Due to Inadequate Food and Nutrition Risks of Performance Decrement and Crew Illness Risks Risks Risks Risks of Performance Decrement and Crew Illness Risks R	Program/Discipline:	HUMAN RESEARCH		
Human Research Program Elements: (I) HIIC-Human Health Countermeasures  Human Research Program Risks: (I) Food and Nutrition-Risk of Performance Decrement and Crew Illness Due to Inadequate Food and Nutrition  Space Biology Cross-Flement  Discipline:  Space Biology Special Category: None  PI Email: ann h barrett civifimail mil Fax: FY  PI Organization Type: GOVERNMENT Phone: 508-233-4516  Organization Name: United States Department of the Army  PI Address 1: NSDREC, CFD/PORT, RDNS-CFP  PI Address 2: U.S. Army Natick Soldier Systems Center  PI Web Page:  City: Natick State: MA  Zip Code: 01760-5018 Congressional District: 7  Comments:  Project Type: GROUND Solicitation / Funding 2011 Crew Health  Source: NNJ11ZSA002NA  Start Date: 11/01/2012 End Date: 10/31/2015  No. of Pab Degrees:  No. of Pab Degrees:  No. of Pab Dedrees:  No. of Master's Candidates: No. of Master's Degrees:  No. of Master's Candidates: Monitoring Center: NASA JSC  Contact Monitor: Douglas, Grace Contact Phone:  Contact Email: gracel douglas@mass.cov  Flight Program:  Flight Assignment: NOTE: Changed from NSBR1 to NASA-monitored project, per M. Perchonok/NASA JSC (Ed., 2/25/2013)  Grant/Contract No.: NNJ13IIA911  Performance Goal No.:		HUMAN RESEARCHSpace Human Factors F	Engineering	
Human Research Program Risks: (1) Food and Nutrition:Risk of Performance Decrement and Crew Illness Due to Inadequate Food and Nutrition Space Biology Cross-Element Discipline: Space Biology Special Category: None PI Email: ann.h.barrett.civ@mail.mil Fax: FY PI Organization Type: GOVERNMENT Plorganization Name: United States Department of the Army PI Address 1: NSDREC. CFD/PORT, RDNS-CFP PI Address 2: U.S. Army Natick Soldier Systems Center PI Web Page: City: Natick Siate: MA Zip Code: O1760-5018 Congressional District: 7 Comments: Project Type: GROUND Solicitation / Funding 2011 Crew Health Source: NNUILZSA002NA Start Date: 11/01/2012 Find Date: 10/31/2015 No. of Post Does: No. of Phat 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 Candidates: No. of Bachelor's Candidates: No. of Bachelor's Candidates: No. of Master's Can	Joint Agency Name:		TechPort:	No
Space Biology Element: None  Space Biology Cross-Element Discipline: None  PI Email: ann.b.barrett.civ@mail.mil Fax: FY  PI Organization Type: GOVERNMENT Phone: 508-233-4516  Organization Name: United States Department of the Army  PI Address 1: NSDREC, CFD/PORT, RDNS-CFP  PI Address 2: U.S. Army Natick Soldier Systems Center  PI Web Page:  City: Natick Soldier Systems Center  PI Web Page:  City: Natick Soldier Systems Center  Project Type: GROUD Soldietation / Funding 2011 Crew Health Source: NSJ11ZSA00ZNA  Start Date: 1L/01/2012 End Date: 10/31/2015  No. of Post Does: No. of Master' Degrees: No. of PhD Candidates: No. of Master' Degrees: No. of Master's Candidates: No. of Bachelor's Candidates: No. of Master' Degrees: No. of Haster's Candidates: No. of Bachelor's Candidates: No. of Bachelor's Candidates: No. of Master' Degrees: No. of Bachelor's Candidates: No. of Master's Degrees: No. of Master's Candidates: No. of Master's Degrees: No. of Bachelor's Candidates: No. of Master's Degrees: No. of Master's Candidates: No. of Master's Degrees: No. of Master's Candidates: No. of Master's Degrees: No. of Bachelor's Candidates: No. of Master's Candidates:	<b>Human Research Program Elements:</b>	(1) <b>HHC</b> :Human Health Countermeasures		
Space Biology Cross-Element Discipline:  Space Biology Special Category:  None  PI Email:  ann h barrett civ@mail.mil  Pax: FY  PI Organization Type:  GOVERNMENT  Phone: 508-233-4516  Organization Name:  United States Department of the Army  PI Address 1:  NSDREC, CFD/PORT, RDNS-CFP  PI Address 2:  U.S. Army Natick Soldier Systems Center  PI Web Page:  City:  Natick  State:  MA  Zip Code:  Onomenents:  Project Type:  GROUND  Solicitation / Funding 2011 Crew Health Source:  NNJ1182A002NA  Start Date:  No. of Pan Degrees:  No. of PhD Degrees:  No. of PhD Degrees:  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 Maste	Human Research Program Risks:	(1) Food and Nutrition: Risk of Performance De	ecrement and Crew Illness Due to	nadequate Food and Nutrition
Discipline: None Space Biology Special Category: None PI Email: ann.h barrett.civ@mail.mil Fax: FY PI Organization Type: GOVERNMENT Phone: 508-233-4516 PI Organization Name: United States Department of the Army PI Address 1: NSDREC, CFD/PORT, RDNS-CFP PI Address 2: U.S. Army Natick Soldier Systems Center PI Web Page: City: Natick State: MA Zip Code: 01760-5018 Congressional District: 7 Comments: Project Type: GROUND Solicitation / Funding Solicitation / Funding Source: NNJ11ZSA00ZNA Start Date: 11/01/2012 End Date: 10/31/2015 No. of Post Does: No. of PhD Degrees: No. of Post Does: No. of Master' Degrees: No. of Master' S Candidates: No. of Master' Degrees: No. of Master' S Candidates: No. of Bachelor's Degrees: No. of Bachelor's Candidates: Monitoring Center: NASA JSC Contact Monitor: grace Ldouglass@masa.gov Flight Program: Flight Assignment: NOTE: Changed from NSBRI to NASA-monitored project, per M. Perchonok/NASA JSC (Ed., 2/25/2013) Grant/Contract No.: NNJ13HA911 Performance Goal No.:	Space Biology Element:	None		
PI Email: ann h barrett civ@mail.mil Fax: FY PI Organization Type: GOVERNMENT Phone: 508-233-4516 Organization Name: United States Department of the Army PI Address 1: NSDREC, CFD/PORT, RDNS-CFP PI Address 2: U.S. Army Natick Soldier Systems Center PI Web Page: City: Natick State: MA Zip Code: 01760-5018 Congressional District: 7 Comments: Project Type: GROUND Solicitation / Funding 2011 Crew Health Source: NNJ11ZSA002NA Start Date: 11/01/2012 Fand Date: 10/31/2015 No. of Post Docs: No. of PhD Degrees: No. of PhD Candidates: No. of Bachelor's 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: No. of Bachelor's Degrees: Flight Program: Flight Program: Flight Assignment: NOTE: Changed from NSBRI to NASA-monitored project, per M. Perchonok/NASA JSC (Ed., 2/25/2013) Grant/Contract No.: NNJ13HA911 Performance Goal No.:		None		
PLOrganization Type: GOVERNMENT Phone: 508-233-4516 Organization Name: United States Department of the Army  PLAddress 1: NSDREC, CFD/PORT, RDNS-CFP  PLAddress 2: U.S. Army Natick Soldier Systems Center  PLWeb Page:  City: Natick State: MA  Zip Code: 01760-5018 Congressional District: 7  Comments:  Project Type: GROUND Solicitation / Funding 2011 Crew Health Sendere: NN111ZSA002NA  Start Date: 11/01/2012 End Test NN111ZSA002NA  Start Date: No. of PhD Degrees: No. of PhD Degrees: No. of PhD Degrees: No. of PhD Candidates: No. of Master' Degrees: No. of PhD Candidates: No. of Bachelor's Degrees: No. of Bachelor's Candidates: No. of Bachelor's Degrees: No. of Bachelor's Candidates: No. of Bachelor's Candidates: No. of Bachelor's Degrees: No. of Bachelor's Degrees: No. of Bachelor's Candidates: No. of Bachelor's Degrees: No. of Bachelor's Candidates: No. of Bachelor's Degrees: No. of PhD Degrees: No. of P	Space Biology Special Category:	None		
Organization Name: United States Department of the Army PI Address 1: NSDREC, CFD/PORT, RDNS-CFP PI Address 2: U.S. Army Natick Soldier Systems Center PI Web Page:  City: Natick State: MA  Zip Code: 01760-5018 Congressional District: 7  Comments:  Project Type: GROUND Solicitation / Funding Source: NNJ11ZSA002NA Start Date: 11/01/2012 End Date: 10/31/2015 No. of Post Does: No. of PhD Degrees: No. of PhD 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 Bachelor's Candidates: No. of Master' Degrees: No. of Bachelor's Candidates: No. of Master' Degrees: No. of Master' Degrees: No. of Master's Candidates: No. of Master' Degrees: No. of Master's Candidates: No. of Master' Degrees: No. of Ma	PI Email:	ann.h.barrett.civ@mail.mil	Fax:	FY
PI Address 1: NSDREC, CFD/PORT, RDNS-CFP PI Address 2: U.S. Army Natick Soldier Systems Center PI Web Page:  City: Natick State: MA  Zip Code: 01760-5018 Congressional District: 7  Comments:  Project Type: GROUND Solicitation / Funding 2011 Crew Health Source: NNJ11ZSA002NA  Start Date: 11/01/2012 End Date: 10/31/2015  No. of Post Docs: No. of PhD Degrees: No. of PhD Candidates: No. of Master' Degrees: No. of Master's Candidates: No. of Master's Degrees: No. of Bachelor's Candidates: No. of Bachelor's Degrees: No. of Bachelor's Candidates: Contact Monitor: Douglas, Grace Contact Phone:  Contact Monitor: Douglas, Grace Contact Phone:  Contact Email: grace.l.douglas@nasa.gov  Flight Program:  Flight Assignment: NOTE: Changed from NSBRI to NASA-monitored project, per M. Perchonok/NASA JSC (Ed., 2/25/2013)  Key Personnel Changes/Previous PI:  COI Name (Institution): Froio, Danielle (United States Department of the Army)  Richardson, Michelle (United States Department of the Army)  Grant/Contract No.: NNJ13HA911  Performance Goal No.:	PI Organization Type:	GOVERNMENT	Phone:	508-233-4516
PI Address 2: U.S. Army Natick Soldier Systems Center  PI Web Page:  City: Natick State: MA  Zip Code: 01760-5018 Congressional District: 7  Comments:  Project Type: GROUND Solicitation / Funding 2011 Crew Health Source: NNJ11ZSA002NA  Start Date: 11/01/2012 End Date: 10/31/2015  No. of Post Docs: No. of PhD Candidates: No. of Master' 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: Contact Monitor: Douglas, Grace Contact Phone:  Contact Email: grace. I.douglas/@nasa.gov  Flight Program:  Flight Assignment: NOTE: Changed from NSBRI to NASA-monitored project, per M. Perchonok/NASA JSC (Ed., 2/25/2013)  Key Personnel Changes/Previous PI:  COI Name (Institution): Froio, Danielle (United States Department of the Army) Richardson, Michelle (United States Department of the Army) Grant/Contract No.: NNJ13HA911  Performance Goal No.:	Organization Name:	United States Department of the Army		
PI Web Page:  City: Natick State: MA  Zip Code: 01760-5018 Congressional District: 7  Comments:  Project Type: GROUND Solicitation / Funding 2011 Crew Health Source: NNJ11Z8A002NA  Start Date: 11/01/2012 End Date: 10/31/2015  No. of Post Docs: No. of PhD Degrees: 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: No. of Bachelor's Degrees: No. of PhD Degrees: No. o	PI Address 1:	NSDREC, CFD/PORT, RDNS-CFP		
City: Natick State: MA  Zip Code: 01760-5018 Congressional District: 7  Comments:  Project Type: GROUND Solicitation / Funding 2011 Crew Health Source: NNJ11ZSA002NA  Start Date: 11/01/2012 End Date: 10/31/2015  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: Monitoring Center: NASA JSC  Contact Monitor: Douglas, Grace Contact Phone: Contact Email: grace I.douglas@nasa.gov  Flight Program:  Flight Assignment: NOTE: Changed from NSBRI to NASA-monitored project, per M. Perchonok/NASA JSC (Ed., 2/25/2013)  Key Personnel Changes/Previous PI:  COI Name (Institution): Froio, Danielle (United States Department of the Army) Richardson, Michelle (United States Department of the Army) Grant/Contract No.: NNJ13HA911  Performance Goal No.:	PI Address 2:	U.S. Army Natick Soldier Systems Center		
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Comments:  Project Type: GROUND Solicitation / Funding 2011 Crew Health Source: NNJ11ZSA002NA  Start Date: 11/01/2012 End Date: 10/31/2015  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: Monitoring Center: NASA JSC  Contact Monitor: Douglas, Grace Contact Phone:  Contact Email: grace_l.douglas@nasa.gov  Flight Program:  Flight Assignment: NOTE: Changed from NSBRI to NASA-monitored project, per M. Perchonok/NASA JSC (Ed., 2/25/2013)  Key Personnel Changes/Previous PI:  COI Name (Institution): Froio, Danielle (United States Department of the Army) Richardson, Michelle (United States Department of the Army)  Grant/Contract No.: NNJ13HA911  Performance Goal No.:	City:	Natick	State:	MA
Project Type: GROUND Solicitation / Funding Source: NNJ11ZSA002NA Start Date: 11/01/2012 End Date: 10/31/2015 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 Master' Degre	Zip Code:	01760-5018	<b>Congressional District:</b>	7
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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 Degrees: No. of Bachelor's Degrees: No. of Master' Degree	Start Date:	11/01/2012	End Date:	10/31/2015
No. of Master's Candidates:  No. of Bachelor's Degrees:  No. of Bachelor's Candidates:  Monitoring Center: NASA JSC  Contact Monitor:  Douglas, Grace  Contact Phone:  Contact Email:  grace.l.douglas@nasa.gov  Flight Program:  Flight Assignment:  NOTE: Changed from NSBRI to NASA-monitored project, per M. Perchonok/NASA JSC (Ed., 2/25/2013)  Key Personnel Changes/Previous PI:  COI Name (Institution):  Froio, Danielle (United States Department of the Army) Richardson, Michelle (United States Department of the Army)  Grant/Contract No.:  NNJ13HA911  Performance Goal No.:	No. of Post Docs:		No. of PhD Degrees:	
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Contact Email: grace.l.douglas@nasa.gov  Flight Program:  Flight Assignment: NOTE: Changed from NSBRI to NASA-monitored project, per M. Perchonok/NASA JSC (Ed., 2/25/2013)  Key Personnel Changes/Previous PI:  COI Name (Institution): Froio, Danielle (United States Department of the Army) Richardson, Michelle (United States Department of the Army)  Grant/Contract No.: NNJ13HA911  Performance Goal No.:	No. of Bachelor's Candidates:		<b>Monitoring Center:</b>	NASA JSC
Flight Program:  NOTE: Changed from NSBRI to NASA-monitored project, per M. Perchonok/NASA JSC (Ed., 2/25/2013)  Key Personnel Changes/Previous PI:  COI Name (Institution):  Froio, Danielle (United States Department of the Army) Richardson, Michelle (United States Department of the Army) NNJ13HA911  Performance Goal No.:	Contact Monitor:	Douglas, Grace	Contact Phone:	
Flight Assignment:  NOTE: Changed from NSBRI to NASA-monitored project, per M. Perchonok/NASA JSC (Ed., 2/25/2013)  Key Personnel Changes/Previous PI:  COI Name (Institution):  Froio, Danielle (United States Department of the Army) Richardson, Michelle (United States Department of the Army)  Grant/Contract No.:  NNJ13HA911  Performance Goal No.:	Contact Email:	grace.l.douglas@nasa.gov		
Key Personnel Changes/Previous PI:  COI Name (Institution):  Froio, Danielle (United States Department of the Army) Richardson, Michelle (United States Department of the Army)  Grant/Contract No.:  NNJ13HA911  Performance Goal No.:	Flight Program:			
COI Name (Institution):  Froio, Danielle (United States Department of the Army) Richardson, Michelle (United States Department of the Army)  NNJ13HA911  Performance Goal No.:	Flight Assignment:	NOTE: Changed from NSBRI to NASA-monito	red project, per M. Perchonok/NA	SA JSC (Ed., 2/25/2013)
Richardson, Michelle (United States Department of the Army)  Grant/Contract No.:  NNJ13HA911  Performance Goal No.:	Key Personnel Changes/Previous PI:			
Performance Goal No.:	COI Name (Institution):			
	Grant/Contract No.:	NNJ13HA911		
Performance Goal Text:	Performance Goal No.:			
	Performance Goal Text:			

Task Book Report Generated on: 04/24/2024

Task Description:

The objective of this effort is to develop shelf stable, highly acceptable, food with increased nutrient (vitamins) stability for extended space missions utilizing innovative processing and packaging technologies. There will be two research thrusts. For the first thrust area, we will formulate, test, and optimize the quality and nutrient content of a range of fortified shelf-stable foods. The focus will be on extruded/pressed low-water activity bar-type products. Advances in innovative pre-treatment technologies (encapsulation) for vitamins will be assessed, as well as synergy with matrix chemical character. For the second thrust area, different packaging technologies will be investigated with research focused on the interaction of packaging material with various innovative sterilization processes such as microwave heating, irradiation, and high pressure treatment. The availability of highly nutritious and health-promoting food is a factor that is a significant prerequisite for prolonged space travel. The design of feeding and nutritional strategies for multi-year, non-resupplied flights is an undertaking requiring substantial research and development; it is also an endeavor and that could be founded upon our existing, considerable knowledge and experience base at Natick Soldier RD&E Center.

**Rationale for HRP Directed Research:** 

Research Impact/Earth Benefits:

Task Progress:

New project for FY2013.

**Bibliography Type:** 

Description: (Last Updated: 08/25/2020)