PI: **Andersen, Julie Kay**	Title: 2011 Oxidative Stress and Disease Gordon Research Conference	
Received: 03/12/2010	FOA: PA10-071	Council: 10/2010
Competition ID: ADOBE-FORMS-B	FOA Title: NIH Support for Conferences and Scientific Meetings (Parent R13/U13)	
1 R13 AG039062-01	Dual: GM,NS	Accession Number: 3281310
IPF: 2988701	Organization: GORDON RESEARCH CONFERENCES	
Former Number:	Department:	
IRG/SRG: NIA-B	AIDS: N	Expedited: N
Subtotal Direct Costs (excludes consortium F&A) Year 1: 70,000	Animals: N Humans: N Clinical Trial: N Current HS Code: 10 HESC: N	New Investigator: N Early Stage Investigator: N
Senior/Key Personnel:	*Organization:*	*Role Category:*
Julie Andersen Ph.D.	Buck Institute for Age Research	PD/PI

OMB Number: 4040-0001
Expiration Date: 06/30/2011

APPLICATION FOR FEDERAL ASSISTANCE
SF 424 (R&R)

3. DATE RECEIVED BY STATE: | **State Application Identifier:**

1. * TYPE OF SUBMISSION
☐ Pre-application ☐ Application ☒ Changed/Corrected Application

4. a. Federal Identifier: GRANT10556416

b. Agency Routing Identifier:

2. DATE SUBMITTED: | **Applicant Identifier:**

5. APPLICANT INFORMATION

*** Organizational DUNS:** 075712877

* Legal Name: Gordon Research Conferences

Department: | Division:

* Street1: 512 Liberty Lane

Street2:

* City: West Kingston | County / Parish: Washington

* State: RI: Rhode Island | Province:

* Country: USA: UNITED STATES | * ZIP / Postal Code: 02892-1502

Person to be contacted on matters involving this application

Prefix: | * First Name: Taryn | Middle Name:

* Last Name: Groves | Suffix:

* Phone Number: 401-360-1517 | Fax Number: 401-783-7644

Email: tgroves@grc.org

6. * EMPLOYER IDENTIFICATION *(EIN) or (TIN):* 1050300582A1

7. * TYPE OF APPLICANT: M: Nonprofit with 501C3 IRS Status (Other than Institution of Higher Education)

Other (Specify):

Small Business Organization Type ☐ Women Owned ☐ Socially and Economically Disadvantaged

8. * TYPE OF APPLICATION:
☒ New ☐ Resubmission
☐ Renewal ☐ Continuation ☐ Revision

If Revision, mark appropriate box(es).
☐ A. Increase Award ☐ B. Decrease Award ☐ C. Increase Duration ☐ D. Decrease Duration
☐ E. Other (specify):

* Is this application being submitted to other agencies? Yes ☐ No ☒ What other Agencies?

9. * NAME OF FEDERAL AGENCY: National Institutes of Health

10. CATALOG OF FEDERAL DOMESTIC ASSISTANCE NUMBER:
TITLE:

11. * DESCRIPTIVE TITLE OF APPLICANT'S PROJECT:
2011 Oxidative Stress and Disease Gordon Research Conference

12. PROPOSED PROJECT:
* Start Date: 01/11/2011 | * Ending Date: 05/18/2011

*** 13. CONGRESSIONAL DISTRICT OF APPLICANT:** RI-002

14. PROJECT DIRECTOR/PRINCIPAL INVESTIGATOR CONTACT INFORMATION

Prefix: Dr. | * First Name: Julie | Middle Name: Kay

* Last Name: Andersen | Suffix: Ph.D.

Position/Title: Professor

* Organization Name: Buck Institute for Age Research

Department: | Division:

* Street1: 8001 Redwood Blvd.

Street2:

* City: Novato | County / Parish: Marin

* State: CA: California | Province:

* Country: USA: UNITED STATES | * ZIP / Postal Code: 94945-1400

* Phone Number: 415-209-2070 | Fax Number: 415-209-2231

* Email: jandersen@buckinstitute.org

15. ESTIMATED PROJECT FUNDING

a. Total Federal Funds Requested	70,000.00
b. Total Non-Federal Funds	0.00
c. Total Federal & Non-Federal Funds	70,000.00
d. Estimated Program Income	0.00

16. * IS APPLICATION SUBJECT TO REVIEW BY STATE EXECUTIVE ORDER 12372 PROCESS?

a. YES ☐ THIS PREAPPLICATION/APPLICATION WAS MADE AVAILABLE TO THE STATE EXECUTIVE ORDER 12372 PROCESS FOR REVIEW ON:

DATE:

b. NO ☒ PROGRAM IS NOT COVERED BY E.O. 12372; OR

☐ PROGRAM HAS NOT BEEN SELECTED BY STATE FOR REVIEW

17. By signing this application, I certify (1) to the statements contained in the list of certifications* and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances * and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious. or fraudulent statements or claims may subject me to criminal, civil, or administrative penalities. (U.S. Code, Title 18, Section 1001)

☒ *** I agree**

**** The list of certifications and assurances, or an Internet site where you may obtain this list, is contained in the announcement or agency specific instructions.***

18. SFLLL or other Explanatory Documentation

Add Attachment | Delete Attachment | View Attachment

19. Authorized Representative

Prefix: * First Name: Nancy Middle Name:

* Last Name: Ryan Gray Suffix: Ph.D.

* Position/Title: Director

* Organization: Gordon Research Conferences

Department: Division:

* Street1: 512 Liberty Lane

Street2:

* City: West Kingston County / Parish: Washington

* State: RI: Rhode Island Province:

* Country: USA: UNITED STATES * ZIP / Postal Code: 02892-1502

* Phone Number: 401-360-1517 Fax Number: 401-783-7644

* Email: tgroves@grc.org

*** Signature of Authorized Representative**: Nancy Ryan Gray

*** Date Signed**: 03/12/2010

20. Pre-application Add Attachment | Delete Attachment | View Attachment

424 R&R and PHS-398 Specific Table Of Contents

OMB Number: 4040-0010
Expiration Date: 08/31/2011

Project/Performance Site Location(s)

Project/Performance Site Primary Location ☐ I am submitting an application as an individual, and not on behalf of a company, state, local or tribal government, academia, or other type of organization.

Organization Name: Gordon Research conferences

DUNS Number: 0727128770000

* Street1: 512 Liberty Lane

Street2:

* City: West Kingston County: Washington

* State: RI: Rhode Island

Province:

* Country: USA: UNITED STATES

* ZIP / Postal Code: 02892-1502 * Project/ Performance Site Congressional District: RI-002

Project/Performance Site Location 1 ☐ I am submitting an application as an individual, and not on behalf of a company, state, local or tribal government, academia, or other type of organization.

Organization Name:

DUNS Number:

* Street1:

Street2:

* City: County:

* State:

Province:

* Country: USA: UNITED STATES

* ZIP / Postal Code: * Project/ Performance Site Congressional District:

Additional Location(s) Add Attachment Delete Attachment View Attachment

RESEARCH & RELATED Other Project Information

1. * Are Human Subjects Involved? ☐ Yes ☒ No

1.a If YES to Human Subjects

Is the Project Exempt from Federal regulations? ☐ Yes ☐ No

If yes, check appropriate exemption number. ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6

If no, is the IRB review Pending? ☐ Yes ☐ No

IRB Approval Date:

Human Subject Assurance Number:

2. * Are Vertebrate Animals Used? ☐ Yes ☒ No

2.a. If YES to Vertebrate Animals

Is the IACUC review Pending? ☐ Yes ☐ No

IACUC Approval Date:

Animal Welfare Assurance Number

3. * Is proprietary/privileged information included in the application? ☐ Yes ☒ No

4.a. * Does this project have an actual or potential impact on the environment? ☐ Yes ☒ No

4.b. If yes, please explain:

4.c. If this project has an actual or potential impact on the environment, has an exemption been authorized or an environmental assessment (EA) or environmental impact statement (EIS) been performed? ☐ Yes ☐ No

4.d. If yes, please explain:

5. * Is the research performance site designated, or eligible to be designated, as a historic place? ☐ Yes ☒ No

5.a. If yes, please explain:

6. * Does this project involve activities outside of the United States or partnerships with international collaborators? ☐ Yes ☒ No

6.a. If yes, identify countries:

6.b. Optional Explanation:

7. * Project Summary/Abstract 1234-Project Abstract-Summary.pdf | Add Attachment | Delete Attachment | View Attachment

8. * Project Narrative 1235-Narrative.pdf | Add Attachment | Delete Attachment | View Attachment

9. Bibliography & References Cited | Add Attachment | Delete Attachment | View Attachment

10. Facilities & Other Resources 1236-Facilities and Other Resources.p | Add Attachment | Delete Attachment | View Attachment

11. Equipment | Add Attachment | Delete Attachment | View Attachment

12. Other Attachments Add Attachments | Delete Attachments | View Attachments ☐

Project Summary/Abstract
The Gordon Research Conference (GRC) on Oxidative Stress and Disease is designed to provide scientists from a wide range of disciplines with the latest research findings on the role of oxidative stress in a variety of disease processes with emphasis on shared mechanisms. This research conference has been held every 2 years since 1999; it is part of over 150 conferences that will be organized in 2011 by the GRC, an organization internationally known for the high-quality, cutting edge nature of its meetings. Although a comparatively young GRC conference, attendance at the meeting has grown steadily since its inception over ten years ago.

The 2011 GRC on Oxidative Stress and Disease will be held March 14-18, 2011 at the Sheraton Four Point/Holiday Inn Express in Ventura, CA. The program for the meeting described in this application has been assembled around the theme of **"Emerging research areas in the study of oxidative stress and disease"** which have recently collectively changed the way in which we think about the impact of oxidative stress on cellular mechanisms involved in human disease. These will include the impact of oxidative stress on, for example, epigenetics, microRNAs, stem cells, and mitochondrial dynamics. Findings associated with these novel areas of research are in turn likely to affect the manner in which basic research is translated into interventions for oxidative stress-related disorders. This Gordon Research Conference will bring together leading international experts with a broad range of interests related to diverse aspects of oxidative stress and disease and will create a high quality scientific forum for discussion of the latest findings on basic mechanisms and their translational implementation into interventions aimed at novel disease therapies. In addition, for the first time in the history of this conference, a pre-conference Gordon-Kenan Research Seminar will be organized by junior investigators at the postdoctoral level. Activities during the Seminar will be oriented to junior investigators and are intended to: (1) provide them with the basic background on common mechanisms involved in oxidative stress and disease necessary to maximize their understanding of the science which will be discussed in the subsequent conference, (2) receive feedback on their ongoing research projects from experts in the field, and (3) facilitate their interaction with senior members of this scientific community to promote networking between junior and more senior researchers in the field. We fully anticipate that the scientific discussions, research talks, poster sessions, and other informal interactions between the participants of this conference will contribute to advancing our understanding of novel molecular mechanisms involved in oxidative stress-related human disease and will set the basis for the development of collaborative interventions aimed at promoting new therapeutic treatments for these disorders.

Narrative

The Gordon Research Conference on Oxidative Stress and Disease together with the pre-meeting Gordon Kenan Research Seminar will bring together leaders in a variety of scientific disciplines relevant to the study of oxidative stress-related disorders and junior investigators constituting the future generation of researchers in this field. The scientific presentations, discussions and workshops during this conference are designed to expand our understanding of the mechanisms by which oxidative stress may contribute to disease processes. It is anticipated that the collegial and cooperative atmosphere that has traditionally characterized this conference will provide the perfect setting for the intellectual development and implementation of novel therapeutics for this set of related diseases.

Facilities and Other Resources

The Gordon Research Center, under the direction of Dr. Nancy Ryan Gray, will be responsible for the organization and advertisement of the GRC and GRS meetings. The Conference and Seminar will be held at the Four Points Sheraton/Holiday Inn Express in Ventura, California, just 70 miles north of Los Angeles and 30 miles south of Santa Barbara. Public transport is available to the site from LAX, Santa Barbara, Oxnard, and Burbank airports. The Gordon Research Center will take responsibility for all arrangements regarding housing, food service and registration of participants of this conference and symposium, while scientific matters (selection of speakers, session chairs, and participants) are the responsibility of the Conference andn Seminar Chairs, Drs. Julie Andersen and Michael Brownlee and Drs. Almas Siddiqui and Aric Rogers, respectively. A maximum of 200 scientists will be admitted to the GRC conference and we expect 50 to attend the pre-meeting GRS. All housing, meeting and poster sessions will be located within the hotel complex. It contains an exercise room, heated pool, licensed bar and wireless access throughout the hotel. The hotel is located on 17 acres along California’s Gold Coast on the Ventura Harbor providing access to surfing, fishing, whale-watching, wine-tasting, golfing and tennis and nearby shopping and dining venues.

OMB Number: 4040-0001
Expiration Date: 06/30/2011

RESEARCH & RELATED Senior/Key Person Profile (Expanded)

PROFILE - Project Director/Principal Investigator

Prefix: Dr. * First Name: Julie Middle Name: Kay
* Last Name: Andersen Suffix: Ph.D.
Position/Title: Professor Department:
Organization Name: Buck Institute for Age Research Division:
* Street1: 8001 Redwood Blvd.
Street2:
* City: Novato County/ Parish: Marin
* State: CA: California Province:
* Country: USA: UNITED STATES * Zip / Postal Code: 94945-1400
* Phone Number: 415-209-2070 Fax Number: 415-209-2231
* E-Mail: jandersen@buckinstitute.org

Credential, e.g., agency login: JULIEANDERSEN

*** Project Role:** PD/PI **Other Project Role Category:**

Degree Type:
Degree Year:

***Attach Biographical Sketch** 1241-AndersenNIHBioGRC.pdf [Add Attachment] [Delete Attachment] [View Attachment]
Attach Current & Pending Support [Add Attachment] [Delete Attachment] [View Attachment]

PROFILE - Senior/Key Person 1

Prefix: * First Name: Middle Name:
* Last Name: Suffix:
Position/Title: Department:
Organization Name: Division:
* Street1:
Street2:
* City: County/ Parish:
* State: Province:
* Country: USA: UNITED STATES * Zip / Postal Code:
* Phone Number: Fax Number:
* E-Mail:

Credential, e.g., agency login:

*** Project Role:** **Other Project Role Category:**

Degree Type:
Degree Year:

***Attach Biographical Sketch** [Add Attachment] [Delete Attachment] [View Attachment]
Attach Current & Pending Support [Add Attachment] [Delete Attachment] [View Attachment]

BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors.
Follow this format for each person. **DO NOT EXCEED FOUR PAGES. (USE FONT SIZE 11 or 12) ATTACH AS A PDF**

NAME	POSITION TITLE
Hunt, Virginia Lively	Associate Professor of Psychology
eRA COMMONS USER NAME (credential, e.g., agency login) XXXXXXXX	

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)*

INSTITUTION AND LOCATION	DEGREE *(if applicable)*	MM/YY	FIELD OF STUDY
University of California, Berkeley	B.S.	05/90	Psychology
University of Vermont	Ph.D.	05/96	Experimental Psychology
University of California, Berkeley	Postdoctoral	08/98	Public Health and Epidemiology

A. Personal Statement

The goal of the proposed research is to investigate the interaction between drug abuse and normal aging processes. Specifically, we plan to measure changes in cognitive ability and mental and physical health across a five-year period in a group of older drug users and matched controls. I have the expertise, leadership and motivation necessary to successfully carry out the proposed work. I have a broad background in psychology, with specific training and expertise in key research areas for this application. As a postdoctoral fellow at Berkeley, I carried out ethnographic and survey research and secondary data analysis on psychological aspects of drug addiction. At the Division of Intramural Research at the National Institute on Drug Abuse (NIDA), I expanded my research to include neuropsychological changes associated with addiction. As PI or co-Investigator on several previous university- and NIH-funded grants, I laid the groundwork for the proposed research by developing effective measures of disability, depression, and other psychosocial factors relevant to the aging substance abuser, and by establishing strong ties with community providers that will make it possible to recruit and track participants over time. In addition, I successfully administered the projects (e.g. staffing, research protections, budget), collaborated with other researchers, and produced several peer-reviewed publications from each project. As a result of these previous experiences, I am aware of the importance of frequent communication among project members and of constructing a realistic research plan, timeline, and budget. The current application builds logically on my prior work, and I have chosen co-investigators (Drs. Gryczynski and Newlin) who provide additional expertise in cognition, gerontology and geriatrics. In summary, I have a demonstrated record of successful and productive research projects in an area of high relevance for our aging population, and my expertise and experience have prepared me to lead the proposed project.

B. Positions and Honors

Positions and Employment

1998-2000	Fellow, Division of Intramural Research, National Institute of Drug Abuse, Bethesda, MD
2000-2002	Lecturer, Department of Psychology, Middlebury College, Middlebury, VT
2001-	Consultant, Coastal Psychological Services, San Francisco, CA
2002-2005	Assistant Professor, Department of Psychology, Washington University, St. Louis, MO
2005-	Associate Professor, Department of Psychology, Washington University, St. Louis, MO

Other Experience and Professional Memberships

1995-	Member, American Psychological Association
1998-	Member, Gerontological Society of America
1998-	Member, American Geriatrics Society
2000-	Associate Editor, Psychology and Aging
2003-	Board of Advisors, Senior Services of Eastern Missouri
2003-04	NIH Peer Review Committee: Psychobiology of Aging, ad hoc reviewer
2005-09	NIH Risk, Adult Addictions Study Section, member

Honors

2003	Outstanding Young Faculty Award, Washington University, St. Louis, MO
2005	Excellence in Teaching, Washington University, St. Louis, MO
2008	Award for Best in Interdisciplinary Ethnography, International Ethnographic Society

C. Selected Peer-reviewed Publications (Selected from 42 peer-reviewed publications)

Most relevant to the current application

1. Merryle, R.J. & Hunt, V.L. (2004). Independent living, physical disability and substance abuse among the elderly. Psychology and Aging, 23(4), 10-22.
2. Hunt, V.L, Jensen, J.L. & Crenshaw, W. (2007). Substance abuse and mental health among community-dwelling elderly. International Journal of Geriatric Psychiatry, 24(9), 1124-1135.
3. Hunt, V.L, Wiechelt, S.A. & Merryle, R. (2008). Predicting the substance-abuse treatment needs of an aging population. American Journal of Public Health, 45(2), 236-245. PMCID: PMC9162292
4. Hunt, V.L., Newlin, D.B. & Fishbein, D. (2009). Brain imaging in methamphetamine abusers across the life-span. Gerontology, 46(3), 122-145.
5. Hunt, V.L. & Sher, K.A. (2009). Successful intervention models for older drug-abusers: Research across the life-span. American Psychologist, in press. NIHMSID: NIHMS99135

Additional recent publications of importance to the field (in chronological order)

1. Gryczynski, J., Shaft, B.M., Merryle, R., & Hunt, V.L. (2002). Community based participatory research with late-life addicts. American Journal of Alcohol and Drug Abuse, 15(3), 222-238.
2. Shaft, B.M., Hunt, V.L., Merryle, R., & Venturi, R. (2003). Policy implications of genetic transmission of alcohol and drug abuse in female nonusers. International Journal of Drug Policy, 30(5), 46-58.
3. Hunt, V. L., Marks, A.E., Shaft, B.M., Merryle, R., & Jensen, J.L. (2004). Early-life family and community characteristics and late-life substance abuse. Journal of Applied Gerontology, 28(2),26-37.

4. Hunt, V.L., Merryle, R. & Jensen, J.L. (2005). The effect of social support networks on morbidity among elderly substance abusers. Journal of the American Geriatrics Society, 57(4), 15-23.
5. Hunt, V.L., Pour, B., Marks, A.E., Merryle, R. & Jensen, J.L. (2005). Aging out of methadone treatment. American Journal of Alcohol and Drug Abuse, 15(6), 134-149.
6. Hunt, V.L, Marks, A.E., Venturi, R., Crenshaw, W. & Ratonian, A. (2006). Community-based intervention strategies for reducing alcohol and drug abuse in the elderly. Addiction, 104(9), 1436-1606. PMCID: PMC9000292
7. Merryle, R. & Hunt, V.L. (2006). Randomized clinical trial of cotinine in older nicotine addicts. Age and Ageing, 38(2), 9-23. PMCID: PMC9002364
8. Hunt, V.L., Jensen, J.L. & Merryle, R. (2008). The aging addict: ethnographic profiles of the elderly drug user. NY, NY: W. W. Norton & Company.
9. Hunt, V.L. (2009). Contrasting ethnicity with race in the older alcoholic. TheJournals of Gerontology Series B: Psychological Sciences and Social Sciences, in press. PMCID: PMC Journal – In Process.
10. Hunt, V.L. (2009). Intervening successfully with the older methadone patient. Journal of Applied Gerontology, 13(4), 67-79.

D. Research Support

<u>Ongoing Research Support</u>

R01 DA942367-03 Hunt (PI)
09/01/07-08/31/12
Health trajectories and behavioral interventions among older substance abusers
The goal of this study is to compare the effects of two substance abuse interventions on health outcomes in an urban population of older opiate addicts.
Role: PI

R01 MH922731-05 Merryle (PI) 07/15/05-06/30/10
Physical disability, depression and substance abuse in the elderly
The goal of this study is to identify disability and depression trajectories and demographic factors associated with substance abuse in an independently-living elderly population.
Role: Co-Investigator

Faculty Resources Grant, Washington University 08/15/09-08/14/11
Opiate Addiction Database
The goal of this project is to create an integrated database of demographic, social and biomedical information for homeless opiate abusers in two urban Missouri locations, using a number of state and local data sources.

<u>Completed Research Support</u>

K02 AG442898 Hunt (PI)
09/01/06-08/31/09
Drug Abuse in the Elderly
Independent Scientist Award: to develop a drug addiction research program with a focus on substance abuse among the elderly.

Role: PI

R21 AA998075 Hunt (PI)
01/01/04-12/31/06
Community-based intervention for alcohol abuse
The goal of this project was to assess a community-based strategy for reducing alcohol abuse among older individuals.
Role: PI

OMB Number: 4040-0001
Expiration Date: 06/30/2011

RESEARCH & RELATED BUDGET - SECTION A & B, BUDGET PERIOD 1

*** ORGANIZATIONAL DUNS:** 0757128770000

*** Budget Type:** ☒ Project ☐ Subaward/Consortium

Enter name of Organization: Gordon Research Conferences

Delete Entry *** Start Date:** 01/11/2011 *** End Date:** 04/18/2011 **Budget Period** 1

A. Senior/Key Person

	Prefix	* First Name	Middle Name	* Last Name	Suffix	* Project Role	Base Salary ($)	Cal. Months	Acad. Months	Sum. Months	* Requested Salary ($)	* Fringe Benefits ($)	* Funds Requested ($)
1.	Dr.	Julie	Kay	Andersen	Ph.D.	PD/PI		1.00			0.00	0.00	0.00
2.													
3.													
4.													
5.													
6.													
7.													
8.													
9.	**Total Funds requested for all Senior Key Persons in the attached file**												

Total Senior/Key Person 0.00

Additional Senior Key Persons: Add Attachment Delete Attachment View Attachment

B. Other Personnel

* Number of Personnel	* Project Role	Cal. Months	Acad. Months	Sum. Months	* Requested Salary ($)	* Fringe Benefits ($)	* Funds Requested ($)
	Post Doctoral Associates						
	Graduate Students						
	Undergraduate Students						
	Secretarial/Clerical						
	Total Number Other Personnel					**Total Other Personnel**	

Total Salary, Wages and Fringe Benefits (A+B) 0.00

RESEARCH & RELATED BUDGET - SECTION C, D, & E, BUDGET PERIOD 1

*** ORGANIZATIONAL DUNS:** 0757128770000

*** Budget Type:** ☒ Project ☐ Subaward/Consortium

Enter name of Organization: Gordon Research Conferences

Delete Entry *** Start Date:** 01/11/2011 *** End Date:** 04/18/2011 **Budget Period 1**

C. Equipment Description

List items and dollar amount for each item exceeding $5,000

	Equipment item	* Funds Requested ($)
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.	**Total funds requested for all equipment listed in the attached file**	
	Total Equipment	

Additional Equipment: Add Attachment Delete Attachment View Attachment

D. Travel **Funds Requested ($)**

1.	Domestic Travel Costs (Incl. Canada, Mexico and U.S. Possessions)	
2.	Foreign Travel Costs	
	Total Travel Cost	

E. Participant/Trainee Support Costs **Funds Requested ($)**

1.	Tuition/Fees/Health Insurance	
2.	Stipends	
3.	Travel	
4.	Subsistence	
5.	Other Registration and/or travel support for participants	70,000.00
	Number of Participants/Trainees **Total Participant/Trainee Support Costs**	70,000.00

RESEARCH & RELATED Budget {C-E} (Funds Requested)

RESEARCH & RELATED BUDGET - SECTION F-K, BUDGET PERIOD 1

Next Period

*** ORGANIZATIONAL DUNS:** 0757128770000

*** Budget Type:** ☒ Project ☐ Subaward/Consortium

Enter name of Organization: Gordon Research Conferences

Delete Entry *** Start Date:** 01/11/2011 *** End Date:** 04/18/2011 **Budget Period 1**

F. Other Direct Costs		Funds Requested ($)
1.	Materials and Supplies	
2.	Publication Costs	
3.	Consultant Services	
4.	ADP/Computer Services	
5.	Subawards/Consortium/Contractual Costs	
6.	Equipment or Facility Rental/User Fees	
7.	Alterations and Renovations	
8.	n/a	0.00
9.		
10.		
	Total Other Direct Costs	0.00

G. Direct Costs		Funds Requested ($)
	Total Direct Costs (A thru F)	70,000.00

H. Indirect Costs

	Indirect Cost Type	Indirect Cost Rate (%)	Indirect Cost Base ($)	* Funds Requested ($)
1.				
2.				
3.				
4.				
	Total Indirect Costs			

Cognizant Federal Agency

(Agency Name, POC Name, and POC Phone Number)

I. Total Direct and Indirect Costs	Funds Requested ($)
Total Direct and Indirect Institutional Costs (G + H)	70,000.00

J. Fee	Funds Requested ($)

K. * Budget Justification 1238-Budget Justification.pdf

Add Attachment | Delete Attachment | View Attachment

(Only attach one file.)

RESEARCH & RELATED BUDGET - Cumulative Budget

		Totals ($)
Section A, Senior/Key Person		0.00
Section B, Other Personnel		
Total Number Other Personnel		
Total Salary, Wages and Fringe Benefits (A+B)		0.00
Section C, Equipment		
Section D, Travel		
1. Domestic		
2. Foreign		
Section E, Participant/Trainee Support Costs		70,000.00
1. Tuition/Fees/Health Insurance		
2. Stipends		
3. Travel		
4. Subsistence		
5. Other	70,000.00	
6. Number of Participants/Trainees		
Section F, Other Direct Costs		0.00
1. Materials and Supplies		
2. Publication Costs		
3. Consultant Services		
4. ADP/Computer Services		
5. Subawards/Consortium/Contractual Costs		
6. Equipment or Facility Rental/User Fees		
7. Alterations and Renovations		
8. Other 1	0.00	
9. Other 2		
10. Other 3		
Section G, Direct Costs (A thru F)		70,000.00
Section H, Indirect Costs		
Section I, Total Direct and Indirect Costs (G + H)		70,000.00
Section J, Fee		

Budget Justification

Conference funding in the amount of X is being sought from the (Name of Federal Agency) to provide registration fee and/or travel support for (Insert selection – a, b, or c) to attend the (enter the conference year and the GRC title here) Gordon Research Conference and Gordon Research Seminar (if applicable).

a. participants
b. participants, including but not limited to post doc and/or grad students,
c. participants, including but not limited to women and/or other minorities,

The projected total budget of the conference (all sources of funding) will be kept to the minimum required to provide for support while still allowing for an intellectually stimulating conference. Support will be capped in order to encourage participants to limit travel expenses. All attendees at Gordon Research Conferences and Gordon Research Seminars are expected to attend for the full meeting period.

The provisional Gordon Research Conference program includes X speakers and discussion leaders and is designed to attract a diverse cross-section (age, gender, nationality) of the scientific community. The registration fee will be approximately X per attendee. Participants that are to be supported for all or a portion of their travel are required to travel on economy class tickets and where possible have a Saturday night stopover when it may reduce overall travel expenses.

The Gordon Research Seminar program will include X speakers and discussion leaders selected from submitted abstracts, plus X participants who will serve in mentorship roles (if applicable). The registration fee will be approximately X per attendee.

Estimated Costs and Revenues: (Note: Estimated costs and revenues should equal)

Estimated Total Costs:	
GRC Registration Fees (approximately X @ X)	$XX,XXX
GRC Travel, includes Domestic & International (approximately X @ X)	$XX,XXX
GRS Registration Fees (approximately X @ X)	$XX,XXX
GRS Travel, includes Domestic & International (approximately X @ X)	$XX,XXX
Total Estimated Costs	$XX,XXX
Estimated Total Revenues:	
Gordon Research Conferences	$XX,XXX
(Name of Federal Agency) (this proposal)	$XX,XXX
Other Support	$XX,XXX
	$XX,XXX

Note: This is the required format to be included in your grant proposal.

PHS 398 Cover Page Supplement

OMB Number: 0925-0001

1. Project Director / Principal Investigator (PD/PI)

Prefix: Dr.
* First Name: Julie
Middle Name: Kay
* Last Name: Andersen
Suffix: Ph.D.

2. Human Subjects

Clinical Trial? ☒ No ☐ Yes

* Agency-Defined Phase III Clinical Trial? ☐ No ☐ Yes

3. Applicant Organization Contact

Person to be contacted on matters involving this application

Prefix:
* First Name: Taryn
Middle Name:
* Last Name: Groves
Suffix:

* Phone Number: 401-360-1517
Fax Number: 401-783-7644
Email: tgroves@grc.org

* Title: Grants & Funding Specialist

* Street1: 512 Liberty Lane
Street2:
* City: West Kingston
County/Parish:
* State: RI: Rhode Island
Province:
* Country: USA: UNITED STATES
* Zip / Postal Code: 02892-1502

PHS 398 Cover Page Supplement

4. Human Embryonic Stem Cells

* Does the proposed project involve human embryonic stem cells? ☒ No ☐ Yes

If the proposed project involves human embryonic stem cells, list below the registration number of the specific cell line(s) from the following list: http://stemcells.nih.gov/research/registry/. Or, if a specific stem cell line cannot be referenced at this time, please check the box indicating that one from the registry will be used:

Cell Line(s): ☐ Specific stem cell line cannot be referenced at this time. One from the registry will be used.

Tracking Number:GRANT10556472 Funding Opportunity Number:PA-10-071 Received Date:2010-03-12T10:37:44-04:00

OMB Number: 0925-0001

PHS 398 Research Plan

1. Application Type:

From SF 424 (R&R) Cover Page. The response provided on that page, regarding the type of application being submitted, is repeated for your reference, as you attach the appropriate sections of the Research Plan.

*Type of Application:

☒ New ☐ Resubmission ☐ Renewal ☐ Continuation ☐ Revision

2. Research Plan Attachments:

Please attach applicable sections of the research plan, below.

1. Introduction to Application (for RESUBMISSION or REVISION only)		Add Attachment	Delete Attachment	View Attachment
2. Specific Aims	1239-Specific Aims.pdf	Add Attachment	Delete Attachment	View Attachment
3. *Research Strategy	1240-Research Strategy.pdf	Add Attachment	Delete Attachment	View Attachment
4. Inclusion Enrollment Report		Add Attachment	Delete Attachment	View Attachment
5. Progress Report Publication List		Add Attachment	Delete Attachment	View Attachment

Human Subjects Sections

6. Protection of Human Subjects		Add Attachment	Delete Attachment	View Attachment
7. Inclusion of Women and Minorities		Add Attachment	Delete Attachment	View Attachment
8. Targeted/Planned Enrollment Table		Add Attachment	Delete Attachment	View Attachment
9. Inclusion of Children		Add Attachment	Delete Attachment	View Attachment

Other Research Plan Sections

10. Vertebrate Animals		Add Attachment	Delete Attachment	View Attachment
11. Select Agent Research		Add Attachment	Delete Attachment	View Attachment
12. Multiple PD/PI Leadership Plan		Add Attachment	Delete Attachment	View Attachment
13. Consortium/Contractual Arrangements		Add Attachment	Delete Attachment	View Attachment
14. Letters of Support		Add Attachment	Delete Attachment	View Attachment
15. Resource Sharing Plan(s)		Add Attachment	Delete Attachment	View Attachment

16. Appendix Add Attachments | Remove Attachments | View Attachments

Specific Aims

This application requests funds to support the 2011 Gordon Research Conference (GRC) on Oxidative Stress and Disease to be held at the Four Points Sheraton/Holiday Inn Express in Ventura, CA on March 14-18 and for the first Gordon-Kenan Research Seminar (GRS) that will be held in the same location from March 12-13th. The program for the meeting described in this application has been assembled around the theme of **"Emerging research areas in the study of oxidative stress and disease"** which have recently altered how we think about the interplay between oxidative stress and disease and will in future likely inform on novel therapeutic avenues for these disorders. We consider the GRC on Oxidative Stress and Disease an ideal forum to discuss these recent research advances and how they may affect future research in the field.

The objective of this proposal is specifically to obtain funds to support this international meeting. It is expected that the conference chairs will raise the major part of funding to support the conference. The aims are to obtain funds to:

(1) Support well-established invited speakers/discussants whose participation is essential to guarantee active and productive discussions and to work towards the unification of important conceptual paradigms in the field.

(2) Support junior independent investigators who often do not yet have individual sources of funding to support their participation in the conference. In addition to the junior investigators already included in the program, we will select additional speakers from the submitted abstracts for one of the sessions.

(3) Support attendance to the meeting of trainees (graduate students and postdoctoral trainees). The GRC on Oxidative Stress and Disease has been an ideal avenue for training, networking and introduction of the field to junior investigators. Specifically we would like to provide 10 travel awards for junior investigators and cover the conference registration for up to 5 poster winners.

In addition, for the first time in the history of this conference, a pre-conference Gordon-Kenan Research Seminar will be organized by junior investigators at the postdoctoral level. Activities during the Seminar will be oriented to junior investigators and are intended to:

(1) **Provide them with a basic background on common mechanisms** involved in oxidative stress and disease in order to maximize their understanding of the science that will be discussed in the subsequent GRC.

(2) **Allow them to receive feedback** on their ongoing research projects from experts in the field.

(3) **Facilitate their interaction with senior members** of this scientific community to promote networking between junior and more senior researchers in the field.

This application also includes a request for funding to support the associated GRS to cover registration/travel of 10 junior trainee participants.

Significance

The **Gordon Research Conference (GRC) on Oxidative Stress and Disease** has been held every other year since 1999. The 2011 Conference will be the 6th and will expand the focus of the meeting to explore novel mechanisms by which oxidative stress may be contributing to subsequent disease states. This is a direct consequence of comments from several participants at the previous meeting suggesting that future meetings should concentrate on presentations from scientists on the frontier of new research in the field to assuring that the conference retains its “cutting edge” emphasis. The GRC is an ideal setting for a discussion of novel mechanisms involved in oxidative stress-related disease. It is one of the few forums in which extensive discussion time is included as part of the scientific program and where interactions amongst investigators are maximized by organizing all the scientific and social events in a single location and avoiding simultaneous occurrence of formal presentations. We plan to work towards a goal of at least 130 attendees. A **Gordon-Kenan Research Seminar (GRS) on Oxidative Stress and Disease** will be held for the first time this coming year in conjunction with the GRC. The GRS is a unique opportunity for young researchers to share in the GRC experience. Each seminar is held in conjunction with a related GRC and begins the weekend immediately prior to the GRC. The 2-day Gordon Research Seminars are organized by young investigators with the support of leading scientists from the associated GRC. The first GRS on Oxidative Stress and Disease is being organized by two bright and enthusiastic junior investigators in the field. The seminar aims to target 50 attendees.

The field has experienced major changes in recent years in terms of the way we think about oxidative stress. Previously emphasis has been primarily on its direct damaging affects along with some attention to downstream signaling pathways. Recent advances in the larger scientific community have pointed to additional parameters which appear to be impacted by oxidative stress and which likely influence related disease progression including effects on epigenetics and transcriptional regulation, stem cell status, mitochondrial dynamics, etc. The field has also placed a growing emphasis on interdisciplinary research and translation of basic research into disease treatment. The program of this conference has been designed to bring to-the-fore discussion of these emerging research areas as potentially important components of diseases linked to oxidative stress. Note that a large majority of the speakers have not participated in a previous Oxidative Stress and Disease GRC. The current challenge is to facilitate the integration of information on advances in these areas into the oxidative stress and disease arena. This will be the major emphasis of the 2011 meeting venue. There is minimal overlapping with previous GRCs (the emphasis of the 2009 conference was on aging in the context of oxidative stress and disease). An ideal outcome of the 2011 meeting would be to facilitate the discussion of these emerging research areas and promote their incorporation into future studies in the field.

Research in oxidative stress-related diseases is represented in many of the large society meetings in a diffuse fashion with the major emphasis on the individual diseases themselves (diabetes, Parkinsons, ALS, cardiovascular disease, etc). In contrast, the emphasis at forums such as the Society for Free Radicals in Biology and Medicine, the Oxygen Club of California, and the Society for Free Radical Research International is often more towards understanding basic oxidative stress mechanisms rather than disease per se. When particular diseases are included as session themes in these meetings, discussions are often limited to the particular disease rather than to common pathways that may generally contribute to oxidative disorders. There is therefore a paucity of venues for basic and clinical researchers from academia, government, and industry in the general field of oxidative stress and disease to meet to discuss shared mechanisms involved in this diverse set of disorders. The GRC on Oxidative Stress and Disease is a major forum for researchers to discuss recent advances in the field that may contribute towards our understanding of such shared mechanisms underlying oxidative stress-related disease. On a pragmatic level, it is has also provides a venue for researchers in this specific area to network and initiate collaborative projects through its unique format, important opportunities that are not readily available at large meetings. This unique format allows ample time for

both formal and informal discussions and in-depth discussions about key concepts and controversies in the field.

Innovation

Conference Goals

- To promote open discussion of critical questions in oxidative stress and disease research with particular emphasis on emerging mechanisms which may contribute to the interplay between the two.
- To provide a forum for the discussion of state-of-the art technologies in oxidative stress and disease research.
- To facilitate exchange of ideas and communication of findings that could shape the future goals of the field based on this program agenda.
- To promote networking, initiation of international cooperative efforts and consortiums based on this new information.
- To help familiarize junior investigators (independent investigators and trainees) in the field with new emerging mechanistic paradigms.

Seminar Goals

- To provide junior investigators with background in shared mechanistic aspects of oxidative stress and disease.
- To help junior investigators identify novel "pending questions" in the field.
- To help familiarize junior investigators with cutting edge technologies.
- To facilitate networking of junior investigators with their peers as well as more senior members of the community.

Approach

GRC planning Considerations. Our goal is to promote discussion on emerging mechanisms in the scientific field that may link oxidative stress to disease. We have built a program in which the initial keynote will set the stage by discussing what have to date been considered to be the common "threads" in oxidative stress-related diseases following by sessions which will address in turn several novel mechanisms which recently have begun to be explored as potential links between oxidative stress and disease. Speakers and discussants have been instructed about the global emphasis of the meeting and about the need to provide an integrative view on how new findings fit into our current state of knowledge in the field. We have planned 9 sessions: a keynote, 8 scientific sessions, and a session devoted to short talks on late-breaking advances and/or selected from the posters. In addition to the 10 minutes allocated after each talk for questions/answers, we have incorporated a 15 minute general discussion at the end of each session for "remaining questions" and revision of concepts laid out in the presentations. This will increase the time allocated for discussion with respect to previous conferences.

GRC Chairs: Julie K. Andersen, Ph.D. is a Professor at the Buck Institute for Research in Aging where the major focus of her work is on oxidative stress and Parkinson's disease. She has extensive experience in the organization of various scientific workshops and symposia including the 2004 GRC on the Biology of Aging. **Michael Brownlee, M.D., Ph.D.** is the Anita and Jack Saltz Chair in Diabetes Research and Associate Director of the Biomedical Sciences in the Diabetes Research Center at the Albert Einstein College of Medicine. He has a long and prestigious research career in the area of juvenile diabetes research studies focusing on the central role of mitochondrial oxidative stress on diabetes-induced damage of nerves and blood vessels. **Speakers** have been selected on the basis of the quality and innovation of their research, their presenting qualities and ability to promote stimulating discussion. Special attention has been paid to reducing the number of speakers who have previously presented in this conference, to assure novelty of the presentations. **Discussion Leaders** will be instructed to prepare a short presentation to provide background on the topic at hand, place milestone findings in context and to identify gaps in our knowledge in that area. They are expected to guide the discussions after the individual talks and in the "remaining questions" at the end of each session, when they are expected to summarize the highlights of the individual presentations and open the floor for

global discussion on the topic. The discussion leaders will also be asked to draw attention to relevant poster presentations.

Session 1: Keynote: Oxidative stress and cellular dysfunction: examples from neurodegenerative disease. Dr. Flint Beal is the Chairman of Neurology and Neuroscience at the Medical College of Cornell. He is a member of the Institute of Medicine of the National Academy of Sciences. He is an internationally recognized authority on oxidative stress as it relates to neurodegenerative disease including Alzheimer's, Parkinson's, Huntington's, and ALS. His work has spanned both basic and clinical studies in the field. He has written several definitive reviews on this topic. He will give an overview of oxidative stress and its impact on cellular dysfunction calling upon his vast font of knowledge in the neurodegenerative field.

Session 2. Oxidative stress, DNA damage, epigenetics, and disease. This session will cover recently emerging molecular mechanisms of oxidative stress as it relates to DNA damage and its influence on epigenetics and disease. This will be lead by **Discussion Leaders** Drs. Jan Vijg (Chair, Department of Genetics, Albert Einstein College of Medicine) and Judy Campisi (Buck Institute) world experts on the influence of these phenomona on aging and age-related disease. **Speaker 1:** Jan Vijg will open the session with a discussion of his work on oxidative stress and genetic instability in aging and cancer. **Speaker 2:** Jean Pierre Issa (MD Anderson Cancer Center) will discuss recent basic and translational work from his laboratory on oxidative induction of the "methylome" and its role in both aging and cancer. **Speaker 3:** Goeff Rosenfeld (HHMI, UCSD) will discuss his ground-breaking work on the connection between oxidative stress, epigenetics, DNA repair and genome-wide transcriptional response in such diverse disorders as diabetes, cancer, and neurodegeneration.

Session 3. Oxidative stress and transcriptional regulation in disease. The topic initiated in session 2 will be continued in this next session with emphasis on transcriptional effects. The **Discussion Leader** for this session will be Dr. Henry Forman (UC Merced), a well-noted expert in the field of oxidative stress and gene regulation in lung and other diseases. **Speaker 1:** This session will be initiated by a talk from Dr. Rajiv Ratan (Weill Medical College of Cornell) to discuss the role of oxidative stress in transcriptional alterations associated with stroke/ischemia, Alzheimer's, Parkinson's, and spinal cord injury and his laboratory's ongoing translational work to develop therapeutic strategies to combat neuronal cell death associated with these conditions. **Speaker 2:** The second lecture will be from Dr. Jang-Ho Cha (MGH/Harvard) who will discuss his laboratory's recent work towards uncovering novel mechanisms underlying transcriptional dysregulation in Huntington's disease. **Speaker 3:** King Jordon (Georgia Institute of Technology) will close the session with a technological discussion of the use of next generation sequencing in analysis of epigenetics and transcriptional regulation with special emphasis on the promise and pitfalls in data interpretation from these experiments.

Session 4. Oxidative stress, miRNAs and disease. The **Discussion Leader** for this session will be Witold Filipowicz (Friedrich Miescher Institute, Basel) who will also act as **Speaker 1** to discuss basic mechanisms related to miRNAs and how this impacts on disease such as drug-resistant hepatitis. **Speaker 2:** Marai Mouradian (UMDNJ) will review recent research from her laboratory demonstrating a protective role for miRNAs against oxidative stress in models of Parkinson's disease. **Speaker 3**: Rhonda Bassel-Duby (Southwestern Medical Center) will discuss the role of miRNAs in response to muscle injury and their therapeutic use to prevent muscle pathology.

Session 5. Oxidative stress, stem cells and disease. Discussion Leader. Speaker 1: Victoria Lunyak (Buck Institute) will discuss her research on the impact of oxidative stress on stem cell fate and the role this may play in aging and age-related disease. **Speaker 2:** Rusty Gage (Salk) will continue the session with a discussion of how oxidative stress may influence the plasticity of the adult nervous system and impact on neurodegenerative diseases. **Speaker 3:** David Scaden (Harvard) will finish the session with a discussion of his laboratory's focus on understanding the affects of oxidative and other types of stress on hematopoietic stem cell biology towards developing novel therapies for immunological diseases and cancer.

Session 6. Oxidative stress and alterations in mitochondrial dynamics in disease. The

Discussion Leader for this session, Serge Predzborski (Columbia), is an internationally known expert on the role of oxidative stress in neurological conditions involving mitochondrial dysfunction including Parkinson's and ALS. **Speaker 1:** Charleen Chu (U. Pitt) will present her recent work on the role of factors including oxidative stress involved in mitochondrial quality control and how these may go awry in neurodegenerative disease. **Speaker 2:** A talk will follow from John Le Masters (UNC) who will discuss his career work investigating oxidative alterations to mitochondria in liver and heart injury and during organ transplantation. **Speaker 3:** Brian O'Rourke (Johns Hopkins) will close the session with a discussion of his laboratory's recent development of a mathematical model for ROS-induced mitochondrial ROS release in heart cells.

Session 7. Complications of diabetes and oxidative stress. The **Discussion leader** for this session, Angelika Bierhaus (Heidelberg), is an internationally known expert on the pathogenesis of diabetic tissue dysfunction and damage. **Speaker 1:** Sam El-Osta (Baker IDI Heart and Diabetes Institute, Melbourne) will discuss his work on the emerging role of ROS-induced epigenetic modifications and chromatin remodeling in diabetic vascular cells. **Speaker 2:** Geoffrey Gurtner (Stanford) will follow with a presentation of his recent work on bone-marrow derived early endothelial progenitor cells and the role of mitochondrial superoxide production on defective ischemia-induced new vessel formation in diabetes. **Speaker 3:** Erwin Bottinger (Mt. Sinai) will close the session with a discussion of his laboratory's discovery that mitochondrial membrane protein-like (Mpv 17l) protein regulates mitochondrial superoxide production, and its potential role in diabetic kidney damage.

Session 8. Inflammation, oxidative stress, and cardiovascular disease. Discussion leader for this session is Joseph Witztum (UCSD), an internationally known expert on the role of inflammation in cardiovascular disease. **Speaker 1:** Ming-Hui Zou (U. of Oklahoma) will discuss his ongoing work concerning the role of oxidative stress in vascular endothelial cells and atherosclerosis. **Speaker 2:** Following this, Jean Schaffer (Wash. U.) will speak about her work on a long non-coding RNA, gadd7, a feed forward amplifier of lipid-induced and generalized oxidative stress an its relationship to lipotoxic cell death in the heart. **Speaker 3:** Philipp Scherer (UTSW) will conclude this session by discussing his ongoing work on the role of dysfunctional adipocytes and ROS in maintaining chronic vascular inflammation.

Session 9. Shorts talks from posters/late-breaking advances. This session will be organized by the two chairs and two vice-chairs based on poster presentations and/or ongoing discussions with meeting participants. Five slots will be made available for this session.

GRS planning considerations. The GRS will include 3 scientific sessions, a career orientation session, and two poster sessions. S**peakers** in the scientific sessions will be selected from the submitted abstracts and will be organized around three different topics. Three participants at the GRS will be selected as **discussion leaders** for each of the 3 scientific sessions. Selection will be based on wiliness to fulfill this role (indicated in the application form), mentor letters and their scientific record. The co-chairs will also take active part during the discussions. The discussion leaders will be assisted by five senior mentors who are expected to stimulate discussion after talks, attend posters, provide constructive feedback to the presenters and make themselves available during the social gatherings to provide advice. The **GRS chairs** in charge of organizing and moderating the seminar are two enthusiastic young investigators from the Buck Institute: **Dr. Almas Siddiqui,** a third year postdoctoral fellow interested in the relationship between oxidative stress and nuclear and mitochondrial dysfunction as they related to Parkinson's disease and **Dr. Aric Rogers**, a fifth year postdoctoral fellow studying post-transcriptional mechanisms associated with aging. The GRS will provide Drs. Siddiqui and Rogers with valuable experience in the logistics involved in running a scientific meeting and as such will allow them to obtain valuable experience that will aid in their continued career development.

Session 1. Common biological pathways involved in oxidative stress and disease. Will introduce participants to widely accepted common mechanisms linking oxidative stress and disease.

Session 2. Oxidative stress, organelle dysfunction and disease. Will discuss the contribution of oxidative stress to organelle dysfunction associated with disease such as mitochondria and the ER.

Session 3. Cutting edge technologies to study oxidative stress and disease. Will address novel

technologies which are being used to study oxidative stress and disease such as next generation sequencing.

Career orientation session: Two highly accomplished investigators in the oxidative stress and disease field will be selected to discuss common concerns and critical career decision for junior investigators including funding options and different career paths.

Conference Logistics

Advertising. The schedule of the Gordon Conferences is published annually in Science. We will request that it be publicized also through the Society for Free Radical Research, Oxygen Club of California, and Free Radical Research International websites as will as related disease foundations (Michael J Fox, Juvenile Diabetes Research Foundation, the Hereditary Disease Foundation). Announcements will be mailed to the major journals in the field (FRBM, FRR, ARS) as well as pertinent disease-oriented journals (Cell Metabolism, Neuron, JCI, etc). Conference information and the program will be posted on the GRC Webpage. Advertising will be particularly important for the GRS to make young investigators aware of it. The chairs of the GRS have generated e-mail lists to send announcements of the meeting and a request for abstracts. Trainees will be reached through e-mails sent to directors of different graduate programs, students-postdoc associations, lists of fellows from foundations supporting oxidative stress research, list of fellows in minority programs and/or global areas (e.g. the NIH MARC program).

Diversity of attendees: women, minorities and persons with disabilities. The GRC office has a grant from the Packard Foundation to support students and faculty from schools with a predominantly minority enrollment for participation in GRC conferences with a stipend of $600. This commitment by the GRC is over and above any other support that we are able to secure for our conference. Availability of these funds will be advertised with the meeting flyer, website and other announcements. The chairs are committed to include underrepresented minorities in the program as attendees, speakers and discussants. Publicity for the meeting will be targeted toward institutions with minority students and faculty who will be invited to apply to the conference and made aware of available scholarships. The Oxidative Stress and Disease GRC has an excellent track record of women attendance and participation. We will be aggressively sensitive to the goal of including women, young investigators and minorities in our consideration of application for attendance to the meeting. For both the GRC and the GRS, women represent one of the two co-chairs. The GRC and GRS will strive for inclusion of minority and women as a priority when selecting participants and abstracts for oral presentations.

Handicap access. The Gordon Research Center schedules door-to-door services that will accommodate most disabilities. The Conferences have had people with substantial physical handicaps who traveled to this site and were assisted without trouble. The Gordon Conferences have committed to underwrite the cost of any special service a person needs to accommodate any physical handicap. The cost of this special service will be borne by the Gordon Research Conferences directly without recourse to any other funding we obtain for our conference. Individuals with special needs are identified by checking an optional box on the GRC registration form completed after they have been admitted as conferees. The hotel was selected by the GRC because is handicap-accessible and the site personnel are well trained to assist participants with disabilities.

Child and family care. The Gordon Research Conferences (GRC) provides detailed information for each conference site on the GRC website and also provides conference site information directly to each attendee. Although GRC does not directly provide child care services, attendees are welcome to have guests (including spouses, children, nannies and babysitters) accompany them to the conference. GRC also offers an alternative off-site registration fee at all conferences to accommodate those with special family care needs (the off-site fee includes the conference and all meals but enables attendees to book their own accommodations). The GRC website includes information on nearby off-site accommodations and links to area organizations, such as local Chambers of Commerce, that can assist attendees with locating licensed child care providers and daycare services. Each attendee is also encouraged to contact GRC with any special needs that they may have.

International representation. The GRC administration specifies that this be a truly international meeting and we agree that the meeting will benefit from the inclusion of experts and participants from around the world.

The application process. Acceptance to participate in the meeting is decided by the co-chairs of the conference. Individuals who wish to attend the conference submit applications to the Gordon Research Center which forwards copies to the conference Co-chairs for review and selection of participants. The chairs will seek the advice of the co-vice-chairs concerning the qualification of applicants on an as needed basis. Criteria for participant selection will be the likelihood that the applicant will contribute to conference discussions and will be able to use the information gained at the conference to improve his/her ability to conduct basic research in oxidative stress and disease. Lack of previous involvement in this area of research will not be considered as automatic disqualification as it is our experience that the field of oxidative stress and disease has often benefited from the expert advice of investigators in other fields. Effort will be made to include minorities (see above) and representatives from a diversity of laboratories and, in case the conference is early oversubscribed, the number of participants from a given laboratory will be limited to two. The application process for GRS will follow similar guidelines and the co-chairs will be responsible for acceptance and selection of abstracts for oral presentation in the three scientific sessions. Priority will be given to women, minorities and underrepresented geographic regions.

Support for junior researchers. We are requesting funding to support travel expenses of 10 junior investigators (graduate students and postdoctoral fellows) to attend the GRC. Selection of recipients will be based on their individual merits. For this purpose, students and postdoctoral trainees who apply will be asked to submit a CV, a letter of recommendation from their current advisor, an abstract describing their work, and a short statement indicating how participation in the GRC will help them to achieve their career goals. In addition, up to 5 poster winners will be selected from the two poster sessions by the vice-co-chairs, the keynote speaker and discussion leaders. Junior investigators will be given priority during this competition process. For the GRS, funding is requested to support registration and fixed travel funds for 12 presenters/discussion leaders (4 per scientific session) as well as 10 travel awards. Selection of travel awardees will be made by the 2 co-chairs with input from the two career advisors and three invited speakers.

Conference/seminar schedules

The GRC meeting will begin Sunday evening at 7:30 pm with a welcome by the co-chairs and GRC site staff followed by a 45 min keynote lecture by Dr. Flint Beal followed by 15 min discussion. A welcome reception will be hosted in the hotel immediately after. Subsequent sessions (Mon-Wed, one morning and one evening) will feature 3 speakers (20 min each, 10 min discussion). Sessions will end with 10 min of general discussion. Free time will be left every afternoon for informal conversations among the conference participants. The Thursday schedule will include morning session followed by an evening presentation of winning posters/late-breaking news (5 min each, 2 min discussion). A business meeting will take place on Thursday evening prior to this to discuss conference continuation, and selection of future site and next vice-chairs. A banquet dinner will be held Thursday evening. The GRS meeting will begin Saturday afternoon with a Chairs' introduction and the first scientific session (45 min, 20 min discussion) and poster session (2 hrs). Sunday, the remaining two scientific sessions (45 min each, 20 min discussion) will be followed by a career advice session (1 hr, 30 min discussion) and end with the second poster session (2 hrs).

Poster Presentations. Both the GRC and the GRS will host poster presentations ideal for discussion in a less informal setting. For the GRC, there will be two poster sessions organized by topics to facilitate attendance of poster presenters to presentations by other scientists with similar interests. Posters will remain accessible for view for 48 hours and presenters will be asked to attend and be prepared to discuss their poster with other participants for 1 ½ h. For the GRS, two poster sessions will be organized. Out of the 50 participants, 9 communications will be selected for oral presentation reducing the number to 41 posters that will be divided in two 2 hr sessions.

PHS 398 Checklist

OMB Number: 0925-0001

1. Application Type:

From SF 424 (R&R) Cover Page. The responses provided on the R&R cover page are repeated here for your reference, as you answer the questions that are specific to the PHS398.

* Type of Application:

☒ New ☐ Resubmission ☐ Renewal ☐ Continuation ☐ Revision

Federal Identifier: GRANT10556416

2. Change of Investigator / Change of Institution Questions

☐ Change of principal investigator / program director

Name of former principal investigator / program director:

Prefix:
* First Name:
Middle Name:
* Last Name:
Suffix:

☐ Change of Grantee Institution

* Name of former institution:

3. Inventions and Patents (For renewal applications only)

* Inventions and Patents: Yes ☐ No ☐

If the answer is "Yes" then please answer the following:

* Previously Reported: Yes ☐ No ☐

4. * Program Income

Is program income anticipated during the periods for which the grant support is requested?

☐ Yes ☒ No

If you checked "yes" above (indicating that program income is anticipated), then use the format below to reflect the amount and source(s). Otherwise, leave this section blank.

*Budget Period	*Anticipated Amount ($)	*Source(s)

5. * Disclosure Permission Statement

If this application does not result in an award, is the Government permitted to disclose the title of your proposed project, and the name, address, telephone number and e-mail address of the official signing for the applicant organization, to organizations that may be interested in contacting you for further information (e.g., possible collaborations, investment)?

☒ Yes ☐ No