

**APPLICATION FOR FEDERAL ASSISTANCE
SF 424 (R&R)**

3. DATE RECEIVED BY STATE	State Application Identifier
<input type="text"/>	<input type="text"/>

1. * TYPE OF SUBMISSION

Pre-application Application Changed/Corrected Application

4. a. Federal Identifier

b. Agency Routing Identifier

2. DATE SUBMITTED

Applicant Identifier

5. APPLICANT INFORMATION * Organizational DUNS:

* Legal Name:

Department: Division:

* Street1:

Street2:

* City: County / Parish:

* State: Province:

* Country: * ZIP / Postal Code:

Person to be contacted on matters involving this application

Prefix: * First Name: Middle Name:

* Last Name: Suffix:

* Phone Number: Fax Number:

Email:

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

7. * TYPE OF APPLICANT:

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:

10. CATALOG OF FEDERAL DOMESTIC ASSISTANCE NUMBER:

TITLE:

11. * DESCRIPTIVE TITLE OF APPLICANT'S PROJECT:

12. PROPOSED PROJECT:

* Start Date * Ending Date

*** 13. CONGRESSIONAL DISTRICT OF APPLICANT**

14. PROJECT DIRECTOR/PRINCIPAL INVESTIGATOR CONTACT INFORMATION

Prefix: * First Name: Middle Name:

* Last Name: Suffix:

Position/Title:

* Organization Name:

Department: Division:

* Street1:

Street2:

* City: County / Parish:

* State: Province:

* Country: * ZIP / Postal Code:

* Phone Number: Fax Number:

* Email:

<p>15. ESTIMATED PROJECT FUNDING</p> <p>a. Total Federal Funds Requested <input style="width:150px;" type="text" value="30,000.00"/></p> <p>b. Total Non-Federal Funds <input style="width:150px;" type="text" value="0.00"/></p> <p>c. Total Federal & Non-Federal Funds <input style="width:150px;" type="text" value="30,000.00"/></p> <p>d. Estimated Program Income <input style="width:150px;" type="text" value="0.00"/></p>	<p>16. * IS APPLICATION SUBJECT TO REVIEW BY STATE EXECUTIVE ORDER 12372 PROCESS?</p> <p>a. YES <input type="checkbox"/> THIS PREAPPLICATION/APPLICATION WAS MADE AVAILABLE TO THE STATE EXECUTIVE ORDER 12372 PROCESS FOR REVIEW ON: DATE: <input style="width:100px;" type="text"/></p> <p>b. NO <input checked="" type="checkbox"/> PROGRAM IS NOT COVERED BY E.O. 12372; OR <input type="checkbox"/> PROGRAM HAS NOT BEEN SELECTED BY STATE FOR REVIEW</p>
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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 penalties. (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

19. Authorized Representative

Prefix: * First Name: Middle Name:

* Last Name: Suffix:

* Position/Title:

* Organization:

Department: Division:

* Street1:

Street2:

* City: County / Parish:

* State: Province:

* Country: * ZIP / Postal Code:

* Phone Number: Fax Number:

* Email:

*** Signature of Authorized Representative**

Nancy Ryan Gray

*** Date Signed**

04/05/2010

20. Pre-application

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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:

DUNS Number:

* Street1:

Street2:

* City: County:

* State:

Province:

* Country:

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

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:

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

Additional Location(s)

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

8. * Project Narrative

9. Bibliography & References Cited

10. Facilities & Other Resources

11. Equipment

12. Other Attachments

ABSTRACT:

This proposal requests partial support for a meeting on the Immunology of Fungal Diseases as part of a new *Gordon Research Conference* series to be held in Galveston, Texas, January 16 - 21, 2011. The **broad and long-term goal** of this conference is to bring together, for the first time, the world's leading researchers in this rapidly expanding field to foster cross-disciplinary discussions and collaborations, so as to enhance our understanding of anti-fungal immunity with the aim of developing new insights for controlling these pathogens. The **specific aims** of this meeting will be to convene over 40 leading experts that cover critical areas within this new field, with a total of 150 participants for a five-day conference in a relatively isolated setting. The program will be structured into nine sessions covering fungal pathogen associated molecular patterns (PAMPS), the mechanism of innate fungal recognition, the anti-fungal adaptive immune response and its regulation, organ-specific immunity, the effects of immunodeficiency and of immunomodulation on fungal diseases, immunity to specific fungal pathogens, and two sessions on translational research focussed on immunotherapy and vaccination. In addition, afternoon poster sessions will permit all participants to contribute to these topics. Every effort will be made to encourage participation by postgraduate students and postdocs, to have parity in the numbers of women, and to include minorities and persons with disabilities. The **significance** of this application is that this Gordon Research Conference will provide the first-ever forum for bringing together and synergizing members of the international research community working on the immunology of fungal infections. The **health relatedness** of this application is that the discussions generated will help define the important questions relating to basic science but also those required for the development of novel strategies for immunotherapy; which are desperately required so as to reduce the very high levels of mortality associated with systemic forms of these devastating diseases.

NARRATIVE:

Fungi are usually harmless in the context of normal host responses, but modern medical practices, a variety of surgical interventions, and the AIDS pandemic (particularly in third world countries), have led to immune deficiencies and susceptibility to fungal disease in a significant proportion of the patient population. Yeasts such as *Candida* are now fourth place on the list of the most frequent nosocomial sepsis agents in the USA, and there are about 700,000 cases of systemic and invasive Aspergillosis and over one million cases of cryptococcosis per year worldwide. Approximately half of the patients who suffer from invasive mycoses die from their disease, but despite their importance, the study of fungal infections has lagged behind those of other pathogens. ***The discussions of current research at this Gordon Research Conference will define important questions that need to be addressed for the development of new immunotherapeutic strategies for the control of fungal infections.***

FACILITIES

The meeting will be held at the Hotel Galvez, in Galveston Texas. The meeting site was chosen by the GRC Organization and meets the strict GRC criteria. Galveston is a small island 32 miles long and two and a half miles wide, located on the Gulf of Mexico 40 miles from Houston. Galveston offers 32 miles of relaxing beaches, and one of the largest and best-preserved concentrations of Victorian architecture in the country. Hotel Galvez, a Wyndham Historic Hotel, is a sparkling vision of Victorian elegance. To relax while discussing some of their interesting results the attendees may enjoy sunbathing, swimming, horseback riding along the beach, exploring the attractions in Galveston, or taking advantage of a 9000 sq ft. spa and workout facility.

The GRC Organization made the ultimate decision regarding the choice of Galveston. The Hotel Galvez has a modern conference center with a lecture hall suited for up to 500 persons and an adjacent area with space to accommodate posters. The largest room has sitting capacity of 350 people. As we are intending to accept up to 150 registrations these facilities more than satisfy our needs. The hotel is located at about 45 minutes drive from Houston Airport.

All Gordon Research Conferences are held in meeting spaces that conform to the regulations of the Americans with Disabilities Act. Additionally, information in the registration brochure informs people with disabilities to contact the conference coordinator regarding special needs.

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.

RESEARCH & RELATED Senior/Key Person Profile (Expanded)

PROFILE - Project Director/Principal Investigator			
Prefix:	Prof.	* First Name:	Stuart
Middle Name:			
* Last Name:	Levitz	Suffix:	
Position/Title:			
Department:			
Organization Name:	University of Massachusetts Medical School	Division:	
* Street1:	364 Plantation Street, LRB 317		
Street2:			
* City:	Worcester	County/ Parish:	
* State:	MA: Massachusetts	Province:	
* Country:	USA: UNITED STATES	* Zip / Postal Code:	016054321
* Phone Number:	(508) 856-1525 (office)	Fax Number:	
* E-Mail:	Stuart.Levitz@umassmed.edu		
Credential, e.g., agency login:	SMLEVITZ		
* Project Role:	PD/PI	Other Project Role Category:	
Degree Type:			
Degree Year:			
* Attach Biographical Sketch	1234-NIH Biosketch - Levitz G	Add Attachment	Delete Attachment
Attach Current & Pending Support		Add Attachment	Delete Attachment
		View Attachment	View Attachment

PROFILE - Senior/Key Person 1			
Prefix:	Prof.	* First Name:	Gordon
Middle Name:	D		
* Last Name:	Brown	Suffix:	
Position/Title:			
Department:			
Organization Name:	UNIVERSITY OF ABERDEEN	Division:	
* Street1:	Institute of Medical Science, Ashgrove Road West		
Street2:	University of Aberdeen		
* City:	Aberdeen	County/ Parish:	
* State:		Province:	
* Country:	GBR: UNITED KINGDOM	* Zip / Postal Code:	AB25 2ZD
* Phone Number:	+441224555796	Fax Number:	
* E-Mail:	gordon.brown@abdn.ac.uk		
Credential, e.g., agency login:	GDBROWN		
* Project Role:	Co-PD/PI	Other Project Role Category:	
Degree Type:	PhD		
Degree Year:	1996		
* Attach Biographical Sketch	1235-GDB Biosketch.pdf	Add Attachment	Delete Attachment
Attach Current & Pending Support		Add Attachment	Delete Attachment
		View Attachment	View Attachment

RESEARCH & RELATED Senior/Key Person Profile (Expanded)

PROFILE - Senior/Key Person 2		
Prefix:	<input type="text" value="Prof."/>	* First Name: <input type="text" value="Luigina"/> Middle Name: <input type="text"/>
* Last Name:	<input type="text" value="Romani"/>	Suffix: <input type="text"/>
Position/Title:	<input type="text"/>	Department: <input type="text"/>
Organization Name:	<input type="text" value="UNIVERSITY OF PERUGIA"/> Division: <input type="text"/>	
* Street1:	<input type="text" value="Via del Giochetto"/>	
Street2:	<input type="text" value="University of Perugia"/>	
* City:	<input type="text" value="Perugia"/>	County/ Parish: <input type="text"/>
* State:	<input type="text"/>	Province: <input type="text"/>
* Country:	<input type="text" value="ITA: ITALY"/>	* Zip / Postal Code: <input type="text" value="06122"/>
* Phone Number:	<input type="text" value="+39 075 5857411"/>	Fax Number: <input type="text"/>
* E-Mail:	<input type="text" value="lromani@unipg.it"/>	
Credential, e.g., agency login:	<input type="text"/>	
* Project Role:	<input type="text" value="Co-PD/PI"/>	Other Project Role Category: <input type="text"/>
Degree Type:	<input type="text" value="MD"/>	
Degree Year:	<input type="text" value="1982"/>	
*Attach Biographical Sketch	<input type="text" value="1236-Romani Biosketch 2010.p"/>	<input type="button" value="Add Attachment"/> <input type="button" value="Delete Attachment"/> <input type="button" value="View Attachment"/>
Attach Current & Pending Support	<input type="text"/>	<input type="button" value="Add Attachment"/> <input type="button" value="Delete Attachment"/> <input type="button" value="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 Hunt, Virginia Lively	POSITION TITLE Associate Professor of Psychology		
eRA COMMONS USER NAME (credential, e.g., agency login) XXXXXXXX			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	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. Merrylye, 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. & Merrylye, R. (2008). Predicting the substance-abuse treatment needs of an aging population. *American Journal of Public Health*, 45(2), 236-245. PMID: 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., Merrylye, 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., Merrylye, 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., Merrylye, R., & Jensen, J.L. (2004). Early-life family and community characteristics and late-life substance abuse. *Journal of Applied Gerontology*, 28(2),26-37.

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

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

* ORGANIZATIONAL DUNS:

* Budget Type: Project Subaward/Consortium

Enter name of Organization:

* Start Date: * End Date: 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.	Prof.	Stuart		Levitz		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:

B. Other Personnel

* Number of Personnel	* Project Role	Cal. Months	Acad. Months	Sum. Months	* Requested Salary (\$)	* Fringe Benefits (\$)	* Funds Requested (\$)	
<input type="text"/>	Post Doctoral Associates	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input type="text"/>	Graduate Students	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input type="text"/>	Undergraduate Students	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input type="text"/>	Secretarial/Clerical	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input type="text"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input type="text"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input type="text"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input type="text"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input type="text"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input type="text"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input type="text"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input type="text"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
<input type="text"/>	Total Number Other Personnel						Total Other Personnel	<input type="text"/>
							Total Salary, Wages and Fringe Benefits (A+B)	0.00

RESEARCH & RELATED BUDGET - SECTION C, D, & E, BUDGET PERIOD 1* ORGANIZATIONAL DUNS: * Budget Type: Project Subaward/ConsortiumEnter name of Organization: * Start Date: * End Date: Budget Period 1**C. Equipment Description**

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

	Equipment item	* Funds Requested (\$)
1.	<input type="text"/>	<input type="text"/>
2.	<input type="text"/>	<input type="text"/>
3.	<input type="text"/>	<input type="text"/>
4.	<input type="text"/>	<input type="text"/>
5.	<input type="text"/>	<input type="text"/>
6.	<input type="text"/>	<input type="text"/>
7.	<input type="text"/>	<input type="text"/>
8.	<input type="text"/>	<input type="text"/>
9.	<input type="text"/>	<input type="text"/>
10.	<input type="text"/>	<input type="text"/>
11.	Total funds requested for all equipment listed in the attached file	<input type="text"/>
	Total Equipment	<input type="text"/>

Additional Equipment: **D. Travel****Funds Requested (\$)**

1.	Domestic Travel Costs (Incl. Canada, Mexico and U.S. Possessions)	<input type="text"/>
2.	Foreign Travel Costs	<input type="text"/>
	Total Travel Cost	<input type="text"/>

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

1.	Tuition/Fees/Health Insurance	<input type="text"/>
2.	Stipends	<input type="text"/>
3.	Travel	<input type="text"/>
4.	Subsistence	<input type="text"/>
5.	Other <input type="text" value="Registration Fee and/or Travel Supprt of Conference pa"/>	<input type="text" value="30,000.00"/>
<input type="text"/>	Number of Participants/Trainees	Total Participant/Trainee Support Costs
		<input type="text" value="30,000.00"/>

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

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

Next Period

* ORGANIZATIONAL DUNS: * Budget Type: Project Subaward/ConsortiumEnter name of Organization:

Delete Entry

Start Date: * End Date: Budget Period 1**F. Other Direct Costs****Funds Requested (\$)**

1. Materials and Supplies	<input type="text"/>
2. Publication Costs	<input type="text"/>
3. Consultant Services	<input type="text"/>
4. ADP/Computer Services	<input type="text"/>
5. Subawards/Consortium/Contractual Costs	<input type="text"/>
6. Equipment or Facility Rental/User Fees	<input type="text"/>
7. Alterations and Renovations	<input type="text"/>
8. <input type="text" value="N/A"/>	<input type="text" value="0.00"/>
9. <input type="text"/>	<input type="text"/>
10. <input type="text"/>	<input type="text"/>

Total Other Direct Costs **G. Direct Costs****Funds Requested (\$)****Total Direct Costs (A thru F)** **H. Indirect Costs**

	Indirect Cost Type	Indirect Cost Rate (%)	Indirect Cost Base (\$)	* Funds Requested (\$)
1.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
3.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
4.	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

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)** **J. Fee****Funds Requested (\$)****K. * Budget Justification**

(Only attach one file.)

Add Attachment

Delete Attachment

View Attachment

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.

- 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 are expected to attend for the full meeting period.

The provisional 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.

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

Estimated Total Costs:

Registration Fees (approximately X @ X)	\$XX,XXX
Travel, includes Domestic & International (approximately X @ X)	\$XX,XXX
Student/Postdoc Support (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.

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		30,000.00
1. Tuition/Fees/Health Insurance		
2. Stipends		
3. Travel		
4. Subsistence		
5. Other	30,000.00	
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)		30,000.00
Section H, Indirect Costs		
Section I, Total Direct and Indirect Costs (G + H)		30,000.00
Section J, Fee		

PHS 398 Cover Page Supplement

OMB Number: 0925-0001

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

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

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:
 Middle Name:
 * Last Name:
 Suffix:
 * Phone Number: Fax Number:
 Email:

* Title:

* Street1:
 Street2:
 * City:
 County/Parish:
 * State:
 Province:
 * Country: * Zip / Postal Code:

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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.

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)	<input type="text"/>	Add Attachment	Delete Attachment	View Attachment
2. Specific Aims	1242-Specific Aims.pdf	Add Attachment	Delete Attachment	View Attachment
3. *Research Strategy	1243-Research Strategy.pdf	Add Attachment	Delete Attachment	View Attachment
4. Inclusion Enrollment Report	<input type="text"/>	Add Attachment	Delete Attachment	View Attachment
5. Progress Report Publication List	<input type="text"/>	Add Attachment	Delete Attachment	View Attachment

Human Subjects Sections

6. Protection of Human Subjects	<input type="text"/>	Add Attachment	Delete Attachment	View Attachment
7. Inclusion of Women and Minorities	<input type="text"/>	Add Attachment	Delete Attachment	View Attachment
8. Targeted/Planned Enrollment Table	<input type="text"/>	Add Attachment	Delete Attachment	View Attachment
9. Inclusion of Children	<input type="text"/>	Add Attachment	Delete Attachment	View Attachment

Other Research Plan Sections

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

16. Appendix [Add Attachments](#) [Remove Attachments](#) [View Attachments](#)

Specific Aims:

- 1.** To bring together for the first time established and young investigators who study the immunology of fungal infections.
- 2.** To assess our current understanding of the innate and adaptive mechanisms of anti-fungal immunity and of organ specific immunity.
- 3.** To discuss the consequences of immunodeficiency and immunomodulation in terms of susceptibility to fungal infections, and how we can develop immunotherapeutic strategies to treat and prevent disease, including vaccination.
- 4.** To highlight neglected areas in our understanding of the immunology of fungal infections and to recommend new and future research initiatives and prioritize these.

RESEARCH STRATEGY

GORDON RESEARCH CONFERENCE ON THE IMMUNOLOGY OF FUNGAL INFECTIONS

(a) Significance

The history of mankind has been shaped more by infections, than by war and famine combined. At the same time, however, the evolution of our society has had an equally important effect on human diseases. The emergence of agriculture, urban societies and high population densities has been proven to be crucial for the spread of pathogens, and thus human action is currently the single most important driver of infectious epidemiology. Even today, where once major killers such as poliomyelitis have been eradicated, new pathogens are appearing as result of human activity.

Fungi are one such group of pathogens, whose emergence is mainly due to modern medical practices. Fungal microorganisms, from yeasts colonizing the skin or mucosa, to molds from soil or water, are usually harmless in the context of normal host responses. However, the success of chemotherapy, as well as the AIDS pandemic, has led to immune deficiencies in a significant segment of the patient population, and the extensive use of intravenous catheters has provided a way of access for microorganisms which otherwise would find it difficult to infect the host. As a result, *Candida* is now in the 4th place on the list of the most frequent nosocomial sepsis agents, whereas infection with the mold *Aspergillus* is increasing in incidence and it is one of the most feared complications in patients with hematological malignancies. The CDC estimates over 1 million new cases/year of cryptococcosis worldwide in patients with AIDS, with over half those affecting dying of the infection. Fungal infections have thus become an important factor of morbidity and mortality, and represent an increasing burden on the medical system. An effective treatment of these infections is an absolute necessity.

We are at a cross-road in our efforts to tackle infections in general, and fungal infections in particular. While the last decennia have brought important progress in the development of more effective and safe antifungal agents, a significant percentage of patients still succumb to these diseases. The failure of therapy has more to do with the ineffectiveness of host defense mechanisms, than to the absence of effective antifungal agents. Therefore, combining classical antibiotic treatment with adjunctive immunotherapy would seem the logical step forward in the management of fungal infection. Until now, this goal was elusive due to the lack of proper knowledge of the immune system and its interaction with infectious microorganisms.

However, this is changing rapidly, and ***research done in the last 20 years has enabled us for the first time to start thinking about designing ways of boosting the immune system in an effective way.*** Discoveries such as the description of the receptors recognizing fungi, an increasing understanding of the host defense mechanisms and cell types important for host resistance, as well as the ways through which fungi escape immune surveillance, are important milestones in the way towards understanding host defense to these pathogens. These discoveries also allow a better appreciation of immunodeficiency and disease susceptibility, and provide a means to develop novel approaches for immunotherapy and vaccination. Similarly important is the contribution of fungi to the plasticity of the immune system, from tolerance to autoimmunity. ***Yet, despite all these discoveries and the rapid expansion of the field, there has been no forum for the anti-fungal immunity community to meet, where critical issues and important future directions can be discussed.***

(b) Innovation

There are many conferences focusing on fungal pathogens, but these are primarily directed at individual pathogens (such as the ASM Conference on Candida and Candidiasis and Advances Against Aspergillosis), basic mycology (such as the Fungal Genetics Conference at Asilomar) and/or anti-fungal therapeutic agents and strategies (such as the Interscience Conference on Antimicrobial Agents and Chemotherapy). Large immunology or mycology meetings sometimes have a small session devoted to fungi, but there are currently no meetings that are focused particularly on fungal immunology. ***The Gordon Research Conference on the “Immunology of Fungal Infections” is therefore timely and fills an important gap within the field.*** This first Gordon Research Conference on the “Immunology of Fungal Infections” is intended to attract a broad range of scientists covering this field, so as to bring together, for the first time, the world’s leading researchers investigating anti-fungal immunity, in a setting ideal for promoting cross-disciplinary discussions and collaborations. This will provide a compelling and informative meeting covering the latest advances in the field and the most pressing issues to be tackled, particularly those regarding the development of new strategies for vaccination and the immunotherapeutic control of these pathogens.

Topics that will be presented will range from the mechanisms of innate fungal recognition, the anti-fungal adaptive immune response and its regulation, organ-specific immunity, the effects of immunodeficiency and of immunomodulation on fungal diseases, immunity to specific fungal pathogens, immunotherapy and vaccination, to a session on translational research. This Gordon conference plans to convene every two years, and in the future, the main focus of the GRC may vary from meeting to meeting, depending on the chair(s) and the teams elected by our scientific community, to accommodate new trends and emerging questions in the field. As mentioned above, this will be the first regular meeting focusing on the “Immunology of Fungal Infections” and will provide a new forum in which leaders from the scientific community are brought together to discuss our current understanding of anti-fungal immunity, topics that need to be tackled, and strategies that need to be developed to improve vaccination and immune function so as to better control infections with these pathogens. It is our hope that this meeting series will channel the growth of the field as a whole, strengthening the soundness of the fundamental questions as well as providing new directions towards new therapeutic applications and at the same time creating a multidisciplinary framework for scientists engaged in understanding anti-fungal immunity.

The GRC format differs from other larger meetings in that its small format is limited to 150 attendees. The GRCs generally feature senior investigators from US and other countries that are invited because of their prominence in the field, as well as junior researchers, post-docs and graduate students. Gordon Conferences emphasize cutting-edge research presented in an informal and interactive setting. They also are the premier format for junior investigators to introduce themselves and their work to the leaders in the field. One important aspect of this interaction is the opportunity of graduate students and post-docs to interact with leaders in their fields and plan the next step of their careers.

Another goal of this conference is to encourage attendance from investigators from countries in Africa, Asia and Latin America where fungal diseases pose significant health problems. This will be achieved by offering a number of bursaries and/or travel awards to individuals from these countries. We believe that a number of the so-called “Third World” countries already have a significant scientific critical mass and are currently making significant

contributions to this field. Indeed, one of our proposed speakers is based in Brazil. Moreover, by being more closely associated with the disease areas, many of the local students and investigators are highly motivated to tackle the diseases caused by these fungal pathogens. Thus, their participation in this specific GRC is likely to be very fruitful as they will bring new and alternative insights to the discussions. Moreover, their participation will provide opportunities to establish new collaborations, broaden their outlook and contribute to the strengthening of their careers. In this context, the location of the first GRC in Galveston, Texas is desirable for being geographically closer to Mexico and other Latin America countries. In addition, the relatively mild winter in the South will make this an attractive location for residents from the US and Europe.

(c) Approach

The format for the meeting will be set by the GRC guidelines and will comprise a total of 9 sessions. The conference will be composed of morning and evening sessions, and will commence on the evening of Sunday 16th of January 2011 with three talks (20 minutes per talk with 10 minutes of discussion). Morning sessions will be 3.5 hours-long with five talks (20 minutes per talk with 10 minutes of discussion), two short talks (10 minutes per talk with 5 minutes of discussion), and one 30 min break. Evening sessions will be 2 hours long and composed of three main talks (20 minutes per talk with 10 minutes of discussion) and two short talks (10 minutes per talk with 5 minutes of discussion). The short talks will be selected from submitted abstracts to stimulate participation by graduate students, post-docs and junior investigators.

We will begin the meeting on Sunday focusing on the fungal cell wall and its interaction with the host, and how fungal pathogens can evade immune recognition. On Monday morning, we will discuss the innate immune recognition of fungi, with talks and discussion on fungal pattern recognition receptors and their intracellular signaling pathways. On Monday evening we will move to the adaptive immune system, discussing how these responses are initiated and regulated in response to fungi. On Tuesday morning, we will narrow the focus and discuss specific anti-fungal immunity in various organs and tissues, such as the epithelium, lung and vagina. On Tuesday evening, we will continue with a focused theme, looking at immunity to specific fungal pathogens, both common pathogens such as *Aspergillus* and *Candida*, as well as pathogens typically considered to be found in the “third-world”, such as *Paracoccidioides*. On Wednesday, we focus on the effects of immune-deficiencies on anti-fungal immunity, with the morning session dedicated to the effects of immune-suppression during transplantation and of genetic deficiencies, and the afternoon to the consequences of immune-modulation. On Thursday, we switch gears, looking at translational aspects and visions for the future. The entire day will be devoted to discussing the lessons learned and promising future strategies regarding immunotherapeutic approaches and vaccination under the session headings “Immunotherapy and Vaccination”, in the morning, and “From Bench to Bedside and Back Again” in the evening.

Included below is the proposed meeting agenda with a list of discussion leaders and speakers. Please note that we have intentionally not filled the speaking schedule at this time because we wish to invite additional speakers as the conference approaches, including cutting-edge discoveries and graduate students and postdocs selected from poster abstract submissions. The discussion leaders/speakers highlighted in yellow in the program below have already agreed to participate (as of 25 February 2010).

Proposed Program for the GRC “Immunology of Fungal Infections”

Session-1 (Sunday Evening): Fungal PAMPS

Discussion Leader: Daniel Poulain

Participants: Frans Klis, Neil Gow; William Goldman

Session-2 (Monday Morning): Innate Fungal Recognition

Discussion Leader: Carl Figdor

Participants: Mihai Netea, Joseph El Khoury, Jurgen Ruland

Session-3 (Monday Evening): Adaptive Immunity and Immune regulation

Discussion Leader: Anna Vecchiarelli

Participants: Caetano Reis e Sousa, Arturo Casadevall

Session-4 (Tuesday Morning): Organ-specific Immunity

Discussion Leader: Françoise Dromer

Participants: Cory Hogaboam, Paul Fidel, Bernhard Hube

Session-5 (Tuesday Evening): Immunity to Specific Pathogens

Discussion Leader: Bruce Klein

Participants: Vera Calich, Frank Ebel, Chad Steele

Session-6 (Wednesday Morning): Fungal Diseases and Immunodeficiency

Discussion Leader: David Denning

Participants: Kieren Marr, Brahm Segal

Session-7 (Wednesday Evening): Fungal Diseases as a consequence of immunomodulation

Discussion Leader: Jay Kolls

Participants: Nina Singh, George Deepe, Gary Huffnagle

Session-8 (Thursday Morning): Immunotherapy and vaccination

Discussion Leader: Emmanuel Roilides

Participants: Tom Walsh, Antonio Cassone

Session-9 (Thursday Evening): From bench to bedside and back again

Discussion Leader: Bart Jan Kullberg

Participants: Liise-Anne Pirofski, Tom Harrison

The agenda and partial list of speakers for this meeting were developed based on discussions between the Chair, Vice-Chairs and leaders in the field of anti-fungal immunity. The current set of speakers represents a core of established investigators that will provide the name recognition necessary to attract the attendance of the best researchers and students in the field. We will, in the next few months, consult with our scientific community to identify junior investigators conducting fresh and innovative cutting-edge research to add to the program.

Regarding the demographics for the 2011 meeting, we will make every effort to have parity in participation by women, and include minorities and persons with disability by actively canvassing the community and soliciting the names of new and established investigators to invite to the meeting. The use of the short speaking slots is often appropriate for a junior investigator or an investigator entering this field to present their initial work. This format introduces their studies to the group and in turn, they will receive feedback since the structure of the Gordon Conference encourages in-depth discussions during the conference week.

In addition to the talks, poster sessions will be held each afternoon (four in total) which should permit nearly all the participants to present their work. These sessions will be held from 4-6pm on Monday, Tuesday, Wednesday and Thursday. Participants presenting posters will be asked to staff their poster during the second hour. Importantly, we are reserving short-talk slots in each session for oral presentations selected from poster abstracts.

Gordon D. Brown and Stuart Levitz and Luigina Romani are the Chair and Vice-Chairs of the 2011 meeting, respectively. All were involved in the preparation of the initial proposal for the new GRC on the "Immunology of Fungal Infections", and all three are recognized for their work in this field. The selected section chairs and speakers are also recognized leaders and were chosen for the strength of their work.

The program meeting will be published by the GRC in Science and posted on the GRC World Wide Web site. In addition, conference publicity is supported by direct mail promotion from the GRC office and the office will provide mailing labels and Email addresses from attendance lists at earlier related meetings. Based on the success of prior related GRC meetings, we anticipate more applications to attend than can be accommodated. We will give preference to junior faculty, postdocs, graduate students, and researchers from institutions serving predominantly minority populations and from third-world countries.

We expect that in future years this GRC will develop into a small, agile and forward-looking meeting that explores research areas of broad significance within the field of anti-fungal immunity. Discussions during these meetings will define questions in need of experimental resolution, novel therapeutic strategies, as well as identify areas that need to be explored in the next GRC.

2011 Immunology of Fungal infections GRC and the NIAID mission

The National Institute of Allergy and Infectious Diseases (NIAID) conducts and supports basic and applied research to better understand, treat, and ultimately prevent infectious, immunologic, and allergic diseases. For more than 50 years, NIAID research has led to new therapies, vaccines, diagnostic tests, and other technologies that have improved the health of millions of people in the United States and around the world.

An important NIAID research focus is the immune system, the complex network of cells, tissues, and organs that work together to defend the body against attacks by foreign invaders including fungi. The proposed GRC meeting aims at fostering the study of this subject.

In conclusion, a primary aim of NIAID is to promote the understanding of infectious and immune-mediated diseases, and how to best diagnose, treat and prevent them. With its focus on fungal immunology, the proposed GRC meeting will synergize with the NIAID mission by bringing together, for the first time, the world's leading researchers investigating anti-fungal immunity, in a setting ideal for promoting cross-disciplinary discussions, with the aim of developing new partnerships and strategies for the control of the devastating diseases caused by these pathogens.

N/A

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:

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)
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

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