



## Innovative, Developmental, Exploratory Award (IDEA) **2008 Application Guidelines / Instructions**

### **Overview**

For a general summary of CHRP award types, funding caps, review criteria and other information, see our [Call for Applications](#).

**A. Award:** Innovative, Developmental, Exploratory Awards (IDEA)

**B. Type of Research:** Pilot Studies

**C. Maximum Award Amount:**

Up to \$160,000 total in direct costs, regardless of the duration of the award in Basic Biomedical Sciences

Up to \$250,000 total in direct costs, regardless of the duration of the award in Clinical Sciences

Up to \$200,000 total in direct costs, regardless of the duration of the award in Social and Behavioral Sciences

Funding under Clinical Sciences and Social and Behavioral Sciences is limited to studies addressing certain priority areas outlined in our [Call for Applications](#)

**D. Duration of Award:** Up to 24 months (determined by applicant), normally beginning April 1, 2009.

**E. Investigator Eligibility:** Principal Investigator status at nonprofit academic or research institutions, or 501(c)(3) community-based institutions in California.

- New or more experienced investigators testing new ideas and/or approaches.
- Investigators within and across a variety of biomedical, clinical or social and behavioral sciences.

**F. Institutional Eligibility:** Applicant institutions must be nonprofit academic or research institutions or 501(c)(3) community-based institutions in California.

**G. Characteristics of Awards:**

Required:

- Innovative, creative and intellectually exciting
- New area of research
- Potential for high scientific payoff
- Well-specified research problem
- Relevant to HIV/AIDS

Acceptable:

- Untested concepts and approaches
- Proof of concept studies
- Absence of preliminary data
- To provide the preliminary data for new/untested ideas necessary to pursue more developed studies

**H. Intent of Award:** IDEAs are intended to complement traditional NIH funding mechanisms in HIV/AIDS research. They are intended to support new or more established investigators in gathering preliminary information in preparation for the submission of future applications to other funding sources. Investigators are requested to use this award mechanism for its intended purpose and not submit applications that are compressed versions of full NIH or other granting agency proposals, or that represent continuation funding for ongoing projects. Note that applications with substantially similar specific aims cannot knowingly be submitted for more than one funding mechanism (award type) in the same award cycle.

IDEAs are intended to support pilot studies. Support is limited to aspects of the proposal that are pilot in nature.

**I. Evaluation Criteria:**

- *Responsiveness:* The extent to which the proposed work meets the intent of an IDEA award (i.e., pilot in nature).
- *Innovativeness:* The extent to which the project applies novel methods and approaches to HIV/AIDS research, challenges existing paradigms or develops new paradigms, or considers an existing problem from a new perspective.
- *Impact:* The extent to which the project, if successful, would make an original and important contribution to advancing science in HIV/AIDS.
- *Well-Specified Research Problem:* The extent to which the research problem is well-specified and described.
- *Strength of Research Plan:* The strength and feasibility of the conceptual framework, research methods, and plan for analysis.
- *Qualifications of Investigator:* Investigator's demonstrated experience or potential (if new investigator) to conduct the proposed research.
- *Attentiveness to the needs of California:* Where applicable, the extent to which the proposed study addresses the needs of, and is culturally relevant to, the diverse communities disproportionately affected by HIV/AIDS in California.

## **Submission and Deadlines**

Before preparing and submitting an application, a Letter of Intent must be submitted online at [proposalCENTRAL](#) and approved by CHRP. Approval of the LOI provides access to the application materials and application submission web pages on proposalCENTRAL.

**Letters of Intent are due before noon Pacific Time (3:00 pm Eastern Time) on Tuesday, September 23, 2008.**

**Complete applications, with the exception of the signed Signature pages, are due online at [proposalCENTRAL](#) before NOON, Pacific Time (3:00 p.m. Eastern Time) on Friday, November 14, 2008.** After the application is submitted, an automatic verification e-mail will be sent to the applicant.

All times on the proposalCENTRAL web site are in U.S. Eastern Time. Note: Due times at proposalCENTRAL are set to [official U.S. time](#). Computers and telephones often do not display the correct time.

*There is no grace period. You will not be able to submit your application after the deadline.* Do not submit hard copies of your application.

A complete online application includes entry of all required elements and uploads of all required items in PDF format at proposalCENTRAL. Applicants are responsible for converting documents to PDF format. Do not submit PDF documents with password protection or electronic signature.

**Submission of signed signature pages:** Print the signature pages from proposalCENTRAL when the application is complete using proposal section 13 (see below). Both the face page and an application contacts page are generated. The face page must be signed by the principal investigator and the signing official at the applicant's institution. The signed document, including the application contacts, may be scanned, saved as a PDF document, and submitted to CHRP by e-mail ([chrp@ucop.edu](mailto:chrp@ucop.edu)) by **5 p.m. on Friday, Nov. 28**, or received by mail by that time and date using the address below. **No in-person delivery is permitted.**

CHRP's mailing address is:

California HIV/AIDS Research Program  
University of California  
Office of the President  
300 Lakeside Drive, 6th Floor  
Oakland, CA 94612-3550

Contact number: 510-987-9855

*Applications without required signatures, with missing sections, which do not meet eligibility requirements, or which do not adhere to these instructions, including required formats (font size, margin size and page lengths) are subject to administrative rejection by CHRP without peer review. CHRP reserves the right to withdraw administratively applications for which signed signature pages are not received by the above deadline.*

*Applicants who have had previous awards from CHRP, the California Breast Cancer Research Program, or the Tobacco-Related Disease Research Program must have all past due fiscal and scientific reports from such awards submitted and approved or new applications are subject to administrative rejection. Any such matters must be resolved before the submission of the new application.*

Applicants will be notified of the outcome of their applications by late February or early March, 2009. The anticipated start date for funding is April 1, 2009.

## **Online Application System**

**All uploaded files must be in PDF format.** For information on PDF conversion, see proposalCENTRAL FAQ and Help files. A list of web-based and software conversion utilities can be found at: <http://www.nih.gov/grants/grantsgov/pdf.html>

*Important: Do not upload any PDF documents with password protection or electronic signatures.*

Hard-copy items can be scanned to create an image file (e.g. gif, jpg) and then converted to PDF. Be sure that the scan is a high quality image.

For technical assistance with the application submission at proposalCENTRAL, a helpline is available for questions from applicants on weekdays from 5:30 a.m. to 2:00 p.m. Pacific Time. Phone: 1-800-875-2562 or email: [pcsupport@altum.com](mailto:pcsupport@altum.com)

## **Application Instructions**

**Application Contents: To gain access to the application pages and materials on proposalCENTRAL, an applicant must first submit a Letter of Intent at proposalCENTRAL and the LOI must be approved by CHRP.** Applications will be evaluated on the criteria listed above (Overview, Section I), so it is important to address those criteria in developing a proposal. A complete IDEA application consists of the following (A-J; maximum length in pages given where applicable):

- A. Signature Pages – proposalCENTRAL generates Signature pages from information supplied online after the application is validated (all required items and information uploaded or entered).
- B. Title Page
- C. Applicant/PI Information
- D. Institution and Contacts
- E. Key Personnel
- F. Scientific and Lay Abstracts
- G. Budget Summary
- H. Organizational Assurances
- I. Narrative Section and Other Attachments:
  - i. Narrative Section
    - New investigator explanation (if applicable) – 1 page
    - Responsiveness Statement – 5000 characters, including spaces
    - Research Proposal – 7 pages
    - References/Literature Cited – 2 pages
  - ii. Human Subjects Description
  - iii. Animal Subjects Description – 2 pages
  - iv. Key Personnel and Budget Justification – 3 pages
  - v. Biographical Sketch, PI/Applicant – 6 pages
  - vi. Appendices – 20 pages – Potential items include:
    - Draft consent forms, if human subjects are proposed
    - IRB or IACUC approval of the project proposed here
    - Supporting manuscripts or articles
    - Letters of support or collaboration
- J. Demographics of Human Research Subjects (if applicable)

**Section Explanations:** The following numbered explanations correspond to the numbered Proposal Sections seen in the left hand column of the application page at the proposalCENTRAL web site. This page appears when “Edit” is selected under the Manage Proposals tab. Sections 1, 3, 4, 5, 6, 7, 8, 9, and 11 require online entry of information. Section 1 (Title Page) must be completed first. Section 3 allows you to designate others to have access to your application. Section 10 requires multiple uploads of PDF documents. All parts of the application can be edited before submission. After Section 1, the remaining sections listed above can be completed in any order, and do not need to be completed in one session. Section 2 provides the templates and additional instructions needed to complete Section 10 (the same files are also available within Section 10). The document you are now reading is always available from the application page by selecting “Program Guidelines” from the lower left of the page.

**1. Title Page** (complete online): The project title may not exceed 60 characters and may not include quotation marks.

For Clinical Sciences or Social and Behavioral Sciences applications, select ONE priority topic under which your Letter of Intent was submitted and approved. For Basic Biomedical Sciences, choose “Not Applicable”.

After entering the requested information, Save, and select “Next” to continue.

**2. Templates and Additional Instructions.** These are necessary to complete Section 10 (see below). The same documents are also available from within Section 10.

**3. Access Privileges.** Here you can provide access to your application to other parties. You can designate that a given party have “view only” access, if desired.

**4. Applicant/PI** (complete online): Most of these fields populate automatically with data from your Personal Profile.

If applicable, identify yourself as a new investigator. Generally, a new investigator has less than five years of research experience since the last mentored training position and is not a current or previous recipient of a new investigator award or other significant independent extramural research award (from any source), including CHRP IDEA or Community Collaborative Research Awards.

If you are a New Investigator, include a 1 page explanation as part of the proposal narrative (see Section 10).

State whether you have had any prior business with CHRP such as a grant applicant or a participant on our Advisory Council (formerly known as Task Force) or any committee. If you used a different name at that time, please specify.

**5. Institution and Contacts** (complete online): Include key information for the Signing Official (Grants Officer) and the Fiscal Contact. Do not use generic e-mail addresses (e.g. contractsandgrants@medfield.edu).

**6. Key Personnel** (complete online): Key Personnel are defined as individuals who contribute to the scientific development or execution of the project in a substantive, measurable way, whether or not salaries are requested.

**7. Scientific and Lay Abstracts** (complete online): Provide a brief description of the proposed study's long term objectives and specific aims, making reference to the potential impact and/or significance to HIV/AIDS research and attentiveness to the needs of California, where applicable. Describe concisely the study methods for achieving these goals, highlighting the innovative aspects of the proposed pilot study. The scientific abstract should be directed to Program Officers and Reviewers. The lay abstract is designed for publication and distribution to audiences who are less familiar with scientific matters. *Each abstract is limited to 3,500 characters, including spaces.*

Because the abstracts are entered into text boxes, italics and special characters, such as Greek letters, superscripts, or subscripts, are not permitted.

**Keywords:** Choose a minimum of three keywords that best categorize the proposed research.

**Research Area:** From the Research Area List (also shown below), choose the research areas that best describe the focus of your proposal (more than one area can be selected using "control click", or they can be added individually):

- 01 Vaccine Development
- 02 Antiviral Strategies/Therapeutics
- 03 Molecular Biology of HIV
- 04 Pathogenesis of HIV
- 05 Basic Immunology
- 06 Molecular Biology of OI/Malignancies
- 07 Pathogenesis of OI/Malignancies
- 08 HIV Immune Response
- 09 Diagnosis of HIV and AIDS-Related Diseases
- 10 Treatment for HIV and AIDS Related Diseases
- 11 Clinical Epidemiology
- 12 Behavioral Epidemiology
- 13 Precursors and Contexts of Transmission
- 14 Determinants of Health Care-Related Behavior
- 15 Prevention Interventions
- 16 Prevention Evaluation
- 17 Health Services
- 18 Health Policy

**8. Budget Summary** (complete online): Provide summary budget information for each project period. The maximum term for the project is 2 years. For a two year award, Period 1 will be 04/01/2009 to 03/31/2010, and Period 2 will be 04/01/2010 to 03/31/2011.

**Salary and Fringe Benefits:** Enter totals for each grant period, calculated from the Key Personnel and Budget Justification form (see section 10 below).

**Consultant/Contractual Costs:** Enter direct costs and explain in the Budget Justification. Do not include any indirect costs here. Provide amounts for subcategories in the Budget Justification, if applicable. Include subcontract personnel costs here, and clarify in the budget justification including names and affiliations of key subcontract personnel. Do not include subcontract personnel costs in the key personnel tables of the Key Personnel and Budget Justification template. For subcontracts, apply the following rules to calculate indirect costs: University of California institutions, whether acting as grantee or as subcontractor may not charge for indirect costs. When a non-UC institution is the grantee and UC is a subcontractor, the grantee may not include the subcontracted amount in the indirect cost calculations. When UC is the grantee and a subcontractor is non-UC, the grantee may include indirect costs only for the subcontracted amount, and is to pass those funds to the subcontractor. When both the grantee and the subcontractor are non-UC, total direct costs are to be used for calculating indirect costs, and the grantee may pass a share of those funds on to the subcontractor. In all cases, indirect costs are to be entered in the indirect cost category and explained in the budget justification. Do not enter any indirect costs here.

**Supplies and Expenses:** Provide the total cost of supplies and expenses, including equipment. Equipment is defined as non-expendable, tangible property that is free standing and has a normal life expectancy of one year or more. Special permission must be obtained from CHRP to purchase equipment that costs more than \$5,000 per item. The cost of equipment purchases of \$5,000 or more per item must be subtracted from the direct costs before calculating indirect costs for non-U.C. institutions (see item 6 below).

**Project-Related Travel and Scientific Meetings:** Elaborate on each item in the Budget Justification. Describe the nature and purpose of project-related travel, and provide specific meeting information for scientific travel. For scientific meetings, \$2,000/year is the maximum total.

**Indirect Costs:** University of California institutions are not eligible for indirect costs. Non-UC institutions are eligible for indirect costs up to 25% of total eligible direct costs, or at the rate established for the institution through a U.S. Department of Health and Human Services (DHHS) negotiated indirect cost rate agreement (or other similarly established rate), whichever is lower. Indirect costs should be calculated at the lower rate and shown on the budget. All direct costs at non-U.C. institutions are eligible, except for equipment purchases more than \$5,000 per item. The cost of equipment purchases more than \$5,000 per item must be subtracted from the direct

costs before calculating indirect costs for non-U.C. institutions. Prior approval from CHRP must be obtained for equipment purchases of more than \$5,000 per item. If indirect costs are requested for a non-U.C. subcontracting organization, or by a non-U.C. institution issuing a subcontract, follow the rules under Consultant and Contractual Costs (above), include indirect costs here, and explain the budget justification.

Documentation of an institution's DHHS indirect rate agreement or alternate rate agreement must be submitted upon request if an award is offered to a non-U.C. institution, or if a subcontract to a non-U.C. institution is proposed.

Total Direct Costs may not exceed \$160,000, 250,000 and 200,000 for Basic Biomedical, Clinical and, Social and Behavioral Science categories, respectively. University of California institutions are not eligible for indirect costs. Non-UC institutions are eligible for indirect costs up to 25% of total direct costs.

**9. Organizational Assurances** (complete online): Indicate whether human subjects or animal subjects are to be part of the proposed research. This information is required for all applications, *whether or not* the proposed research involves such subjects or material.

Documentation of institutional approval is not required at the time of submission. Please begin your assurance process as soon as possible. Appropriate assurances (i.e., an application for Institutional Review Board or Institutional Animal Care and Use Committee approval of the proposed research project) must be submitted to the appropriate committee(s) before or within 21 days of notification that an award has been made. If an award is made, CHRP will request verification of approval from these two committees where applicable (see "Post-Award Requirements" below for details). Funding will not be released until appropriate verifications have been received. CHRP no longer requires verification of Institutional Biosafety Committee approval, although grantees are responsible for meeting all assurance requirements at their institutions. If all reasonable efforts are not made to obtain appropriate approvals in a timely fashion, funds may be reallocated to other potential grantees' proposed research projects.

**10. Narrative Section and Other Attachments.** This section requires multiple PDF uploads as outlined below. The required items can be uploaded in any order, and do not need to be uploaded in a single session. For each template that is provided, you must fill out the document header. *The minimum font size is 11 point, (8 point for figures and graphics). The minimum margin size is 1/2 inch. There is no required font style, but Times New Roman or Arial are recommended.*

**Narrative Section** (template provided – upload single PDF): This section includes:

- New Investigator Explanation (if applicable) – 1 page
- Responsiveness Statement – 5,000 characters including spaces
- Research Proposal – 7 pages
- References – 2 pages

Combine all sub-sections, in the above order, into a single file with each sub-section starting on a new page. Page formats and limitations for each section must be strictly observed. Number the pages (bottom center) starting from 1.

*New Investigator Explanation (if applicable):* Explain why you should be considered as a new investigator, and describe your history of grant funding as an investigator. Generally, a new investigator has less than five years of research experience since the last mentored training position and is not a current or previous recipient of a new investigator award (from any source) or other significant independent extramural research award, including CHRP IDEA or Community Collaborative Research Awards. *Limit to 1 page.*

*Responsiveness Statement:* Provide a concise explanation of how the proposed study is responsive to the intent of the IDEA mechanism, specifically how it is pilot in nature and represents a new research trajectory that is not currently funded from other sources. Describe how the pilot study will lead to an expanded research effort in the future, including specific funding sources and award types. *Limit to 5,000 characters, including spaces.*

*Research Proposal:* Provide a clear and concise description of the proposed pilot study. Specify the research problem or hypothesis and specific aims. Explain the supporting rationale for the study in the context of the current literature and unpublished findings, if applicable. Describe how it involves unexplored and new areas of knowledge in HIV/AIDS and the potential impact on the field. Provide details of the research design and methods. Specify how the study is attentive to the needs of the State of California. *Limit to 7 pages.*

*References/Literature Cited:* Include complete titles for each citation. *Limit to 2 pages.*

**Human Subjects Description** (template provided – upload PDF): If human subjects are not part of the proposed research, so indicate in the appropriate check box. If "exempt" was selected in Section 9, address items 1 and 2. Also address item 3 if the information is available. Otherwise, address all 7 items:

1. Detailed description of the involvement of human subjects in the project.
2. Identify the sources of research material specimens, records, or data.
3. Characteristics of the subject population, especially underserved or under-researched groups (Enter numbers in Proposal Section 11).
4. Describe the plans for recruiting subjects and documenting consent.
5. Describe any potential risks—physical, psychological, social, legal, or other.
6. Describe the procedures for protecting against, or minimizing, any potential risks.
7. Discuss why the risks are reasonable relative to the anticipated benefits.

Animal Subjects Description (template provided – upload PDF): If non-human vertebrate animals are not part of the proposed research, so indicate in the appropriate check box. Otherwise, address all 5 items:

1. Detailed description of the proposed use of animals.
2. Justify the use of animals.
3. Describe the veterinary care.
4. Describe the procedures for ensuring that discomfort, distress, pain, and injury will be limited.
5. Describe any method of euthanasia to be used.

Key Personnel and Budget Justification (template provided – upload PDF): This information is required for all applications. Provide details on Applicant/PI's and other key personnel's (if applicable) effort level on the proposed project. Also, provide a narrative justification of the budget amount requested in each category in Section 8 (Budget Summary). Limit the justification to 2 pages.

To calculate personnel costs, use the tables in this template. List all key personnel as in Proposal Section 6, and the PI entered in Proposal Section 4, whether or not salary and benefits are requested. Do not list subcontractors here. Additional rows can be added to the tables, if necessary. The Principal Investigator must allocate a minimum of 1.2 person-months effort (10%) for a 12 month appointment or equivalent effort. Award funds may not be used to increase or supplement total approved compensation beyond 100% full-time equivalent.

The salary requested should not exceed that commensurate with effort and the annual salary. CHRP accepts effort without pay.

CHRP is adopting the NIH policy of reporting effort in person-months. Enter the appropriate person-months under "Effort in Person-Months". To convert percent effort into person-months, use the following resources:

[http://grants.nih.gov/grants/policy/person\\_months\\_fags.htm](http://grants.nih.gov/grants/policy/person_months_fags.htm) and  
[http://grants.nih.gov/grants/policy/person\\_months\\_conversion\\_chart.xls](http://grants.nih.gov/grants/policy/person_months_conversion_chart.xls)

Biographical Sketch-PI/Applicant (template provided – upload PDF): Include Biographical Sketches for the Principal Investigator and Key Personnel. Combine multiple biographical sketches into a single file. Include other support. List current and pending research and non-research activities, including paid faculty, clinical, or administrative appointments. Specify possible overlap and the proposed resolution. Limit each biosketch to 6 pages.

Appendices (upload PDF files): Items may include: data collection instruments or draft consent forms, letters of commitment from consultants and/or collaborators, IRB or IACUC approvals for the project proposed in this application, and no more than two reprints or manuscripts. While the applicant may submit multiple files, limit the appendix section to 20 pages total.

**11. Demographics of Research Subjects** (complete online): Provide the numeric breakdown of proposed human subjects according to gender and race/ethnicity.

**12. Validate.** The web site will run an automatic checklist for all required items, including the uploads, listed as required in Section 10. Any missing required items will be listed, and if there are no missing required items you will be invited to proceed.

**13. Print Signature Pages When Application Complete.** This procedure generates signature pages (including application contacts) and allows the application to be combined into one PDF document. For instructions on the submission of the signature pages, see "Submission and Deadlines" on page 2 of these instructions.

**14. Submit.** You must submit before noon Pacific Time (3 p.m. Eastern Time) on November 14, 2008. Submit the signed signature pages according to the "Submission and Deadlines" section of this document.

## **Pre-Award Requirements**

Human and Animal Subjects:

Approvals for human and animal research subjects are not required at the time of application. If an award is offered by CHRP, you must supply verification of IRB or IACUC approval if required for the project. Funding will not be released until satisfactory verification(s) have been received by CHRP. Applicants are encouraged to apply to the appropriate board or committee as soon as possible in order to expedite funding, and you must do so before or within 21 days of notification that an award has been offered. CHRP may request a copy of the IRB or IACUC application. If all reasonable efforts are not made to obtain appropriate approvals in a timely fashion, funds may be reallocated to other potential grantees' proposed research projects. **IMPORTANT:** Approvals obtained under a different title, investigator, or organization are *not* acceptable, unless they cross-reference the proposed project. If necessary and appropriate, apply for an amendment to an existing approval. Approvals must have specified start and end dates.

Other Requirements:

Upon request, awardees must supply the following information or documents:

1. Verification of Principal Investigator status from an appropriate institutional official.
2. Documentation of 501(c)(3) non-profit organization status.

3. Documentation of the DHHS-negotiated (or equivalent) indirect cost rate for non-U.C. institutions.
4. For community organizations, evidence of capacity to administer the award.
5. Detailed budgets and justifications for any subcontract(s).
6. Resolution of any scientific overlap issues with other grants or pending applications.

**Contacting CHRP**

For questions about this document, templates or template instructions, please contact:

Cathy Foster, MS  
Grants Analyst  
510/587-6189  
[catherine.foster@ucop.edu](mailto:catherine.foster@ucop.edu)

For technical questions about the online application process, contact proposalCENTRAL:

800-875-2562, weekdays from 5:30 a.m. to 2:00 p.m. Pacific Time  
[pcsupport@altum.com](mailto:pcsupport@altum.com)

## **Program Officers**

For other inquiries, contact a program officer in your area of research. All applicants are encouraged to contact the appropriate CHRP program officer before submitting an application for any grant mechanism. Contact with the program officers provides feedback that applicants can take advantage of and use in the drafting of their proposals.

### **Basic Biomedical Sciences**

Anwer Mujeeb, MSc, PhD  
510/287-3340  
[anwer.mujeeb@ucop.edu](mailto:anwer.mujeeb@ucop.edu)

### **Clinical Sciences**

Melissa Sanchez, MA, PhD  
Program Officer, 510/587-6131  
[melissa.sanchez@ucop.edu](mailto:melissa.sanchez@ucop.edu)

### **Social and Behavioral Sciences**

Kathleen Erwin, PhD  
510/987-9889  
[kathleen.erwin@ucop.edu](mailto:kathleen.erwin@ucop.edu)

## **Developing Grant Proposals**

The following information sources are provided for potential applicants who have little or no experience in developing and writing grant proposals. While CHRP application requirements are less formal than those employed by NIH or other federal science agencies, the applicant may find that these websites offer useful information about proposal development:

- [http://12.46.245.173/pls/portal30/catalog.grant\\_proposal\\_dyn.show](http://12.46.245.173/pls/portal30/catalog.grant_proposal_dyn.show)
- [http://ninds.nih.gov/funding/write\\_grant\\_doc.htm](http://ninds.nih.gov/funding/write_grant_doc.htm)
- <http://deainfo.nci.nih.gov/extra/extdocs/gntapp.htm>
- <http://www.niaid.nih.gov/ncn/grants/write/index.htm>
- <http://www.asv.org/pdf/laughlin.pdf>

Applicants may also glean useful advice from the following sources:

- <http://www.annals.org/cgi/reprint/142/4/274.pdf>
- <http://globetrotter.berkeley.edu/DissPropWorkshop/>
- <http://www.aas.org/grants/hints.html>
- <http://www.hfsp.org/how/ArtOfGrants.htm>
- <http://www.research.umich.edu/proposals/PWG/pwgcontents.html>
- <http://www.learnerassociates.net/proposal/>
- <http://www.cpb.org/grants/grantwriting.html>
- <http://nextwave.sciencemag.org/cgi/content/full/2000/01/06/1>