Diversifying Your Portfolio: Non-NIH Sources of Funding

UCLA CTSI Training Curriculum Program
Clinical Research Development Seminars
October 19, 2012

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David Geffen School of Medicine at UCLA
THE HARD REALITY

• 10-15 years ago, one could expect to apply for one's first NIH R01, directly after completing a postdoctoral fellowship. Today, the average age for someone to receive their first R01 grant award is over age 40.

• In 2005, 15-18% of grants were funded, depending on the NIH institute. For FY 2012 less than 10% will be funded. For the past seven years funding for NIH itself has been flat which means in real dollars the NIH budget has gone down for seven years.
How do you get started?

- Understand what is expected.
- Set realistic goals.
- Explore your opportunities.
- Get ready early.
- Take advantage of internal review.
THE HIGH COSTS OF RESEARCH

• Personnel 60-85% of total costs
• Lab assistant (college graduate) $30,000+
• Staff research associate I (college grad + experience) $35,000+
• Research nurse >$100,000
• Postdoctoral fellow $38-46,000
• Portions of P.I.’S and co-P.I.S’ salary
• All salaries must provide benefits (+20-30%)
• Graduate student $27,000 + tuition
THE COSTS OF RESEARCH

• Supplies
  – Bench science ~ 20-40% total
    • High costs: animal colonies
  – Clinical/social science ~10-15%

• Equipment maintenance

• But: physical plant and administration costs usually charged to “overhead”

• Shared instrumentation grants
SOURCES OF FUNDING FOR RESEARCH

Major Sources:

Investigator Initiated Grants (RO1)
  NIH – National Institutes of Health ($32B*)
  NSF – National Science Foundation ($7.4B*)
  ACS – American Cancer Society (~$0.1B)
  AHA – American Heart Association

Program Project Grants (PO1, UO1, NIRT etc..)

Other Government
  AHQR, DOD, DOE, DARPA…

Large Foundations (HHMI ($0.8B), Keck, etc…)
OTHER USEFUL TYPES OF FUNDING

• California
  – CIRM (stem cell)
  – Tobacco

• Training Grants (Graduate Students, Post-Docs)

• Industry

• Private Donors (Clinical Departments)

• UCLA - Intramural Programs
MIXED GRANT PORTFOLIOS

DESIRABLE

- NIH funds subject to cutbacks
- Restrictions on NIH funds (salary cap, foreign travel)
- Restrictions on training grants (US residents or citizens)
- The effects of recession on funding by private foundations
HOWARD HUGHES MEDICAL INSTITUTE
FY 2010

• $14 billion endowment
• $730 million/yr in support for 375 investigators and labs (Superstars!)
• $101 million/yr for grants outside HHMI


<table>
<thead>
<tr>
<th>Rank</th>
<th>Foundation Name</th>
<th>State</th>
<th>Dollar Amount</th>
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<td>11</td>
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<td>12</td>
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Circa 2005. Modified from Foundation Center Statistical Services
OCGA Website:  http://www.research.ucla.edu/ocga/
School of Medicine Research Website:
http://research.mednet.ucla.edu
Funding Information

In order to complete your search through the UCLA School of Medicine Funding Database, please use the form below. Once you have entered sufficient information for your search click on the submit query button underneath. If you would like the database to return all records currently stored, simply leave the form blank and hit the submit button.

Search Funding

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<th>Award Title: Cancer</th>
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<tr>
<td>Funding Type: ALL</td>
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<tr>
<td>Submission Type: External Funding</td>
</tr>
<tr>
<td>Category: ALL</td>
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</tbody>
</table>

Submit Query
**Funding Opportunities**

**Award Title**

1. Cancer Research Coordinating Committee (CRCC)
2. Cancer Research Fund
3. Department of Defense Breast Cancer Research Program Funding Opportunities
4. FY10 DoD Breast Cancer Research Postdoctoral Fellowship
5. Lung Cancer Research Program Funding Opportunities

**Specific Agency Information**

- **Title:** Lung Cancer Research Program Funding Opportunities
- **Agency:** Department of Defense Lung Cancer Research Program
- **Address:** Department of Defense Lung Cancer Research Program

**Contact Info:**

- **URL:** [http://cdmrp.org](http://cdmrp.org)
- **Funding Type:** Award
- **Submission Type:** External Funding
- **Category:** All Faculty

**Description:** The Department of Defense Lung Cancer Research Program's (LCRP) vision is to eradicate deaths from lung cancer to better the health and welfare of the military and the American public. This program is administered by the US Army Medical Research and Materiel Command through the Office of the Congressionally Directed Medical Research Programs (CDMRP). The information in this pre-announcement is being provided to allow investigators time to plan and develop applications if funds become available. This pre-announcement should not be construed as an obligation by the government.

**Limitations:**

**Disciplines:**
Intramural Funding Information

In order to complete your search through the UCLA School of Medicine Funding Database, please use the form below. Once you have entered sufficient information for your search click on the submit query button underneath. If you would like the database to return all records currently stored, simply leave the form blank and hit the submit button.

Search Funding

- **Award Title:**
- **Funding Type:** ALL
- **Submission Type:** Intramural Funding
- **Category:** ALL

[Submit Query]
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<th>Title</th>
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<td>2005 UCLA HUMAN GENE MEDICINE PROGRAM</td>
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<tr>
<td>2010 Oppenheimer Program</td>
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<td>AACR-FNAB Fellows Grant for Translational Pancreatic Cancer Research Grants</td>
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<td>CALIFORNIA BREAST CANCER RESEARCH PROGRAM (CBCRP)</td>
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<td>CALIFORNIA POLICY RESEARCH CENTER (CPRC) 2005-2006 Call for Proposals</td>
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<tr>
<td>Call for Pilot and Feasibility Studies</td>
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<td>HIGH-END INSTRUMENTATION GRANT (HEI) PROGRAM</td>
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<td>Myasthenia Gravis Student Fellowship</td>
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<td>NIH-NSF Ecology of Infectious Diseases Initiative Program</td>
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<td>Pancreatic Cancer Action Network-AACR Pathway to Leadership</td>
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<td>Pilot Grants</td>
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<td>The Alpha Omega Alpha Robert J. Glaser Distinguished Teacher Award</td>
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<td>The Award for Distinguished Research in the Biomedical Sciences</td>
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<td>The David E. Rogers Award</td>
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<td>The Herbert W. Nickens Award</td>
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<td>The Humanism in Medicine Award</td>
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<td>The Outstanding Community Service Award</td>
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<td>The UC Discovery Grant</td>
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<td>UC MEXUS-CMHI SPECIAL CALL FOR PROPOSALS 2005</td>
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<tr>
<td>UCLA Human Gene Medicine Program</td>
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<tr>
<td>WHCF Early Career Translational Research Awards in Biomedical Engineering Program</td>
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Program Goals
The overriding goal of the Oppenheimer Program is to provide seed money for worthwhile projects in health sciences at UCLA, for which alternative sources of funding are not readily available.

These modest seed grants support innovative projects that are in initial stages of development. The Oppenheimer Program is administered by the Senior Associate Dean for Research in the David Geffen School of Medicine at UCLA.

Mr. & Mrs. Gerald H. Oppenheimer
The primary benefactors of the Oppenheimer Program are Mr. & Mrs. Gerald H. Oppenheimer. The Oppenheimer name is a familiar one at UCLA. Gerald (Jerry) has been vitally involved with the University since moving to Southern California in the mid-1960s. He has assumed a leadership role in shaping and supporting the future of medical research at UCLA. The quality that distinguishes Mr. Oppenheimer is his participatory style of philanthropy.

Creation of the Stein/Oppenheimer Endowment Awards provides a perfect example. He was not content to be just the program’s generous benefactor. The most urgent needs of the UCLA Center for the Health Sciences were investigated, and the Award was carefully crafted to meet the identified priorities by providing seed money grants. Gail and Jerry Oppenheimer continue to be philanthropic champions for UCLA, including the recent naming of the Gail and Gerald Oppenheimer Family Center for Neurobiology of Stress.

A single application process is used for all five programs. Faculty may submit only one application each year. Faculty who are funded by the Oppenheimer Program must wait two years before submitting another grant application.

The Stein/Oppenheimer Endowment Awards program provides up to $30,000 to enable scientists, clinicians, and others to generate preliminary data for use in subsequent applications to federal and private funding organizations. It is open to academic senate faculty of all ranks.

The Stein/Oppenheimer Endowment was established to further medical research, education, and patient care at the UCLA Center for the Health Sciences. Through the support of specific projects, these awards enhance UCLA’s commitment to comprehensive excellence in the biomedical field. Since the program’s inception in 1990, 254 seed grants have been awarded. To date, an investment of over five million dollars has generated more than one hundred million in new research grants to UCLA, a 20-fold return!

The community’s pursuit of pioneering investigations has created a unique bond for the awardees,
Foundation Funding
Check with your Grants and Contracts office for Information

American Federation of Aging Research
American Heart Association
American Diabetes Association
California Endowment
California Wellness Foundation
Dermatology Foundation
Emergency Medicine Foundation
Juvenile Diabetes Foundation International
Lifeline Foundation, The
March of Dimes Birth Defects Foundation
National Kidney Foundation
Robert Wood Johnson Foundation
Susan G. Komen Breast Cancer Foundation
Industry Funded Research

Forming partnerships with industry

– Standard research grants and contracts
  (to be discussed by Dr. Wang)

– Federal Grant Programs
  • SBIR and STTR
The Small Business Innovation Research (SBIR) program is a Federal set-aside program for domestic small business concerns to engage in Research/Research and Development (R/R&D) that has the potential for commercialization.

Federal agencies with extramural research and development budgets over $100 million are required to administer SBIR programs using an annual set-aside of 2.5% for small companies to conduct innovative research or research and development that has potential for commercialization and public benefit.

To date, over $12 billion has been awarded by the SBIR program to various small businesses.
The unique feature of the STTR program is the requirement for the small business concern applicant organization to formally collaborate with a research institution.

Differences between SBIR and STTR. Under SBIR Program, the PI must have primary employment with the small business concern. The STTR Program requires research partners at universities and other non-profit research institutions to have a formal collaborative relationship with the small business concern. At least 40 percent of the STTR research project is to be conducted by the small business concern and at least 30 percent of the work is to be conducted by the single, "partnering" research institution.
How do you get information?

• Agency Sources (NIH, NSF, ACS web sites)
• University of California - OTT
  http://www.ucop.edu/ott/welcome.html
• UCLA Sponsored Research - Funding Opportunity Databases
  http://www.research.ucla.edu/era/who/whoven.htm
• UCLA School of Medicine, Dean’s Office
  http://research.mednet.ucla.edu - Search Engine
• UCLA School of Medicine, Departments
• Other Sites - links to agencies etc..