Sponsored Projects:
Types of Support and Review Processes for Research and Training Activities
- Non-Government Agencies -

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Course: “Funding and Grantsmanship for Research and Career Development Activities”

http://grantscourse.columbia.edu/
Total support for biomedical research in the U.S. in 2012 = $130.4 billion*.

- $41.1 billion Federal Government
- $17.8 billion Other
- $2.4 billion Foundations & Public Grantmaking Charities
- $69.2 billion Industry

*Source: Research!America
HRA AWARD CHARACTERISTICS IN 2012

In 2012, 46 organizations made 3,206 awards to 2,579 investigators totaling $866 million (36% of non-profit sector funding)

Private foundations

- 53% Basic Discovery Research
- 42% Mechanisms of Disease
- 5% Prevention, Diagnosis, Treatment and Outcomes

Public fundraising organizations

- 32% Basic Discovery Research
- 13% Mechanisms of Disease
- 55% Prevention, Diagnosis, Treatment and Outcomes
Award funding covers the broad spectrum of basic discovery and translational and clinical research.

- 61% Translational and Clinical Research
- 38% Basic Discovery Research
- 1% Other

Nearly half of the award dollars were for early career development and training, compared to about 5% of NIH grants.

- 51% Research
- 44% CD&T*
- 5% Other

*CD&T: Career Development and Training
Private Foundations

- Non-government, nonprofit organization with its own funds
- Usually from a single source (e.g. individual, family, corporation)
- Program(s) managed by its trustees and directors
- Established to maintain or aid educational, social, charitable, religious, or other activities serving the common welfare, primarily by making grants to other nonprofit organizations.
- Different types: Independent, Company-Sponsored, Operating, Community Foundation

Independent Foundation

Private foundation, whose primary function is the making of grants. The assets are derived from the gift of an individual or family. Depending on their range of giving, may be known as ‘general purpose’ or ‘special purpose’ foundations.
Company-Sponsored Foundation

Private foundation deriving its funds from a profit-making company or corporation but independently constituted. Its purpose is to make grants, usually on a broad basis although not without regard for the business interests of the corporation. Company-sponsored foundations are legally distinct from corporate contributions programs administered by the corporation directly from corporate funds.
Operating Foundation

Private foundation, the purpose of which is to operate research, social welfare, or other programs determined by its governing body or charter.

Community Foundation

Charitable organization whose funds are derived from many donors rather than a single source as is the case with private foundations. Usually classified under the tax law as a public charity and therefore subject to different rules and regulations.
Finding the Right Foundation

Subject
Types of Support
Geographic Location
Foundation Review Process

- Project planning phase
- Initial inquiry to foundation
- Formal proposal submission
- Possible requests for modifications or rewrites
- Staff evaluation and recommendations
- Board decision
Foundation Review Process
-At the Foundation-

- Inquiry letter reviewed by program officer
- Program officer requests full description, but not full-scale proposal
- If program officer still interested, brings description to program staff meeting for discussion and comments
- Site visit and/or request for fully developed proposal with budget information

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If budget is too high, program officer may suggest that foundation will support a portion of the project. May suggest applying to other sources for collaborative project.

Sends proposal to small group of experts for comment.

Depending on comments, possible application revision.
- Continues to provide comments on progress at weekly program staff meetings.
- If recommends sending proposal to the board, circulates full proposal to colleagues for final comments.
- Proposal goes to board with reasons why it is appropriate for foundation.
Private Foundations

- Allen Foundation (human nutrition)
- Eli and Edythe Broad Foundation (Crohn’s disease/ulcerative colitis)
- Burroughs Wellcome Fund (junior investigators)
- Jane Coffin Childs Memorial Fund for Medical Research (post-doc fellowship)
- Camille and Henry Dreyfuss Foundation, Inc. (chemistry)
- Doris Duke Charitable Foundation (clinical research)
- Ellison Medical Foundation (aging)
- Bill and Melinda Gates Foundations (global health)
- William T. Grant Foundation (child development)
- Greenwall Foundation (bioethics and education)
- The Robert Wood Johnson Foundation (health policy)
- Sidney Kimmel Foundation for Cancer Research
- Albert and Mary Lasker Foundation (honorific awards)
- James S. McDonnell Foundation
- David and Lucille Packard Foundation
- Pew Charitable Trusts (junior scholars program)
- Donald W. Reynolds Foundation (aging)
- Stanley J. Sarnoff Endowment for Cardiovascular Science
- Alfred P. Sloan Foundation

“Our health is greatly influenced by complex factors such as where we live, and the strength of our families and communities. But despite knowing this, positive change is not occurring at a promising pace…. to build a national Culture of Health where everyone has the opportunity to live a healthier life.”

“program and policy initiatives in four areas which are each critical to health equity…”

Areas of Focus

- Healthy Communities
- Health Leadership
- Health Children, Healthy Weight
- Health Systems
Josiah Macy, Jr. Foundation

“Dedicated to improving the health of the public by advancing the education and training of health professionals”.

- Interprofessional Education and Teamwork
- New Curriculum Content
- New Models for Clinical Education
- Education for the Care of Underserved Populations
- Career Development in Health Professions Education

Macy Faculty Scholars Program

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United Hospital Fund

“develop and support innovative programs that improve the quality, accessibility, affordability, and experience of patient care.”

Major Initiatives:

- Health Insurance Project
- Medicaid Institute
- Innovation Strategies
- Quality Institute
- Aging in Place
- Family Caregiving
- Children's Health Initiative
Voluntary Health Organizations

- American Cancer Society
- Alzheimer's Association
- American Diabetes Association
- American Heart Association/National & Local Affiliates
  - Pre-doc & and Post-doc Fellowships
  - Career Development Award
  - Merit Award
  - Established Investigator Award
  - Collaborative Sciences Award
  - Innovative Project Award
  - Strategically Focused Research Networks

Voluntary Health Organizations

- American Kidney Fund
- American Lung Association
- Arthritis Foundation
- JDRF (Juvenile Diabetes Research Foundation)
- Leukemia & Lymphoma Society
- Lupus Foundation of America, Inc.
- March of Dimes Foundation
Professional Societies

- American Academy of Allergy and Immunology
- American Academy of Neurology
- American College of Cardiology
- American Academy of Pediatrics
- American College of Rheumatology
- American Gastroenterological Association
- American Society of Hematology
- American Urological Association
- Gerontological Society of America
- Radiol. Soc. of N. America Res. & Educ. Fund
- Society of General Internal Medicine

Individual Fellowships

Non-government, non-profit agencies

- Voluntary Health Organizations
- Professional Societies
- Private Foundations
Post-doc: Individual Fellowship

- Voluntary Health Organizations, Foundations, Professional Societies -

- American Cancer Society
- American Heart Association
- American Kidney Fund
- American Liver Foundation
- Daland Fellowships in Clinical Investigation
- Damon Runyon Cancer Research Foundation
- Helen Hay Whitney Foundation
American Heart Association
Postdoctoral Fellowship Program

- Cardiovascular function and disease and stroke research
- Basic, translational, clinical, behavioral, epidemiological, population, community, bioengineering, biotechnology, and public health

- Funding: Stipend, Health insurance, Project support

- Award Duration: 2 years, May apply for a second 2-year award

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Jane Coffin Childs Memorial Fund for Medical Research

Postdoctoral Research Fellowships

- Supports early postdoctoral research training
- “Research into the causes and treatment of cancer… the study of cell growth and development, emphasizing the study of the basic biology and chemistry of the underlying processes.”
- 3-year fellowships
- Stipend, Research Allowance, and Travel
- Stipends for child care
- US and foreign citizens

http://www.jccfund.org/fellowship-information/

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Career Transition Awards

- **BWF: Career Awards for Medical Scientists**
  - To support physician-scientists during the last years of a mentored postdoctoral/fellowship position and the beginning years of an independent faculty position.
  - Candidates must hold an M.D., D.O., D.D.S., or D.V.M. degree
  - 75% effort to research-related activities
  - Funding: $700,000 over five years
    - Postdoctoral/Fellowship Portion: Years 1 and 2
      - Annual Total: $95,000
    - Faculty Portion of the Award: Years 3-5
      - Annual Total: $170,000

Career Transition Awards

**JDRF: Advanced Postdoctoral Fellowships**

- Type 1 Diabetes
- Supports full-time research training and assist awardees “in transitioning from a fellowship to an independent (faculty-level) position”
- Usually, most recent doctoral degree (PhD, MD, DMD, DVM, or equivalent) received no more than 6 years before application
- $95,000 per year for up to 3 years
- **Transition Award:** “Optional transition year in which the awardee may request funding support in their first year as a faculty member” (up to $110,000 for one year)

Research Career Development/Scholar Programs

- **American Heart Association**
  - Career Development Award

- **Robert Wood Johnson Foundation**
  - Harold Amos Medical Faculty Development Program
  - Academic Medicine, Dentistry, and Nursing
  - “historically disadvantaged” – “challenges facing individuals because of their race, ethnicity, socioeconomic status, or other similar factors”

- **Damon Runyon Cancer Research Foundation**
  - Clinical Investigator Award

- **Doris Duke Charitable Foundation**
  - Clinical Scientist Development Grant

Example: Research Interests in Digestive Diseases

Non-government, non-profit agencies

• Voluntary Health Organizations
• Professional Societies
• Private Foundations
Voluntary Health Organizations

- American Cancer Society
  - Mentored Research Grants
    - Postdoctoral Fellowships
    - Clinical Scientists Development Grants
  - Research Grants for Independent Investigators
    - Research Scholar Grants
  - Health Professional Training Grants
  - Professors
    - Research Professor, Clinical Research Professor
  - New Initiatives and Requests for Applications

- **American Liver Foundation**
  - Postdoctoral Research Fellowship Award
  - Liver Scholar Award

- **Cancer Research Institute, Inc.**
  - Irvington Postdoctoral Fellowship
  - Clinic and Laboratory Integration Program (CLIP) Grants
  - Technology Impact

- **Lustgarten Foundation (pancreatic cancer)**
  - Research Investigator Awards
  - Distinguished Scholars
  - Translational Clinical Program

- Crohn’s & Colitis Foundation
  - Student Research Awards
  - Research Fellowship Awards
  - Career Development Awards
  - Senior Research Awards

- Damon Runyon Cancer Research Foundation
  - Damon Runyon Fellowship Award
  - Damon Runyon Clinical Investigator Award
  - Damon Runyon Physician-Scientist Training Award
  - Damon Runyon-Rachleff Innovation Award
Professional Societies

- **American College of Gastroenterology**
  - Junior Faculty Development Grants
  - Clinical Research Awards
  - “Smaller Programs” Clinical Research Award

- **American Association for the Study of Liver Diseases**
  - Research Awards
  - Career Development Awards
  - Travel Awards
American Gastroenterological Association/AGA Research Foundation

- Research Scholar Award
- Awards for Young Investigators
- Pilot Research Awards
- Travel Awards

American Society for Gastrointestinal Endoscopy/ASGE Foundation

- Research Grants
Private Foundations

- **Kenneth Rainin Foundation**
  - Inflammatory Bowel Disease (IBD)
    - Innovator Awards
    - Synergy Awards

- **Leona M. and Harry B. Helmsley Charitable Trust**
  - IBD and Crohn's Disease
Grantseeking from Corporations

- Identify companies that might be interested in your research
- Learn as much as possible about the company (e.g. business activities, past giving history)
- Determine the best method of approach (e.g. formal application, personal contacts)
- Articulate your research objectives so as to be in line with the company's giving rationale
Pharmaceutical/Biotech Companies

- Independent foundations
- Research agreements:
  - Companies support investigators for a specific research project
  - Agreement reviewed/negotiated by Columbia Technology Ventures (e.g. intellectual property protection)
- Clinical trials
- On going nationally competitive research awards/honorific awards

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Clinical Trials

- **Phase I** - Clinical Pharmacology
  - 1 year (range: ½-1½ yrs)
  - 20-50 subjects
  - Emphasis on safety

- **Phase II** - Controlled Clinical Trials
  - 2½ years (range: 1-5 yrs)
  - 100-400 patients
  - Emphasis on safety plus controlled efficacy trials

**Phase III** - Expanded Clinical Trials

- 3 years (range: 1-5 yrs)
- 500-5000 patients
- Emphasis on efficacy, with continued safety monitoring

**Phase IV** - Postmarketing Clinical Trials

- Performed after the new drug is approved
- Special safety studies
- Define new dosing regimens

Gifts

- Gifts are not sponsored projects.

- Although funds may be used to support research efforts, they are not for a specific research project (i.e., no listing of detailed specific aims). Unlike sponsored projects, gift agreements do not contain itemized budgets and do have the same university financial reporting requirements.

- Gifts are solicited and managed by the university's development offices, not by the grants office.

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