Introduction to the NIH Grants System and NCI’s Division of Cancer Biology
Outline

- Overview of NIH, NCI, and the Division of Cancer Biology
- Fundamentals of the NIH Grants System
NIH is an agency within the U.S. Department of Health and Human Services (DHHS)

Administered by: Alex M. Azar

The Secretary

Administration for Children and Families (ACF)
Administration on Aging (AoA)
Food and Drug Administration (FDA)
Health Resources and Services Administration (HRSA)

Centers for Medicare and Medicaid Services (CMS)
Agency for Healthcare Research and Quality (AHRQ)
Indian Health Services (IHS)
National Institutes of Health (NIH)

Centers for Disease Control and Prevention (CDC)
Agency for Toxic Substances and Disease Registry (ATSDR)
Substance Abuse and Mental Health Services Administration (SAMHSA)

($1.13 Trillion FY2018)

($1.0 Trillion)

($33 Billion)

Source: http://www.hhs.gov/budget
The National Institutes of Health

Office of the Director

Francis Collins, M.D., Ph.D.

Source: http://www.nih.gov
NIH Budget Allocation by Institute/Center

FY2018
$33 Billion NIH
$5.74 Billion NCI

NCI 18%
NIAID 14%
NHLBI 9%
NIGMS 8%

Source: http://www.hhs.gov/budget
Organization of the National Cancer Institute

National Cancer Institute
(FY2018 budget: $5.9 Billion)

Intramural Research
(~17% budget)
- Center for Cancer Research
- Division of Cancer Epidemiology and Genetics
- NCI-Frederick

Extramural Programs
(~75% budget, ~7000 grants)
- Office of the Director
  (~2000 grants)
- Division of Cancer Biology
  (~2000 grants)
- Division of Cancer Treatment and Diagnosis
  (~1700 grants)
- Division of Extramural Activities
  (0 grants)
- Division of Cancer Prevention
  (~500 grants)
- Division of Cancer Control and Population Sciences
  (~700 grants)

Research Management Support (~8% budget)

Source: http://fundedresearch.cancer.gov/nciportfolio/
Chief: Barbara Spalholz, Ph.D.
Cancer Immunology, Hematology and Etiology Branch

Chief: Kevin Howcroft, Ph.D.
Programs
Physical Sciences Oncology Network (PS-ON)
Cancer Systems Biology Consortium (CSBC)

Chief: Daniel Gallahan, Ph.D.
DNA and Chromosome Aberrations Branch

Chief: Judy Mietz, Ph.D.
Structural Biology and Molecular Applications Branch

Chief: Jennifer Couch, Ph.D.
Tumor Biology and Microenvironment Branch

Chief: Jeffrey Hildesheim, Ph.D.
Tumor Metastasis Branch

Chief: Nancy Boudreau, Ph.D.
Cancer Cell Biology Branch
Acting Chief: Daniel Gallahan, Ph.D.

Chief: Nancy Boudreau, Ph.D.
Cancer Immunology, Hematology and Etiology Branch
Chief: Kevin Howcroft, Ph.D.

Chief: Dinah Singer, Ph.D.
Director: Office of the Director
Deputy Director: Daniel Gallahan, Ph.D.

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The NIH budget is specified by Congress through a yearly appropriations bill which is signed into law by the President.

- Provides each IC with specific funds to carry out their respective programs and missions.

- The fiscal year begins October 1.

How Does NIH Solicit Applications?

• Funding Opportunity Announcements (FOA) published through the NIH Guide
  (http://grants.nih.gov/grants/guide/)

• Parent Announcements cover basic mechanisms (e.g. Parent R01)
  – investigator-initiated research projects

• Special Announcements to fill gaps
  – Requests for Applications (RFA)
  – Program Announcement (PA) / NOSI
  – Program Announcement with Special Review (PAR)
  – Program Announcement with Set Aside (PAS)
The NIH Grant Application Cycle

**Investigator**
- Initiates Research Idea

**Submits Application to NIH**

**Conducts Research**

**Allocates Funds**

**Investigator**

**Initiates Research Idea**

**Submits Application to NIH**

**Center for Scientific Review**
- Assign to SS
  - Assign to Institute
  - Study Section: **Scientific Review Officer**

**Program Director**
- **Institute**
- **Scientific Merit**

**Programmatic Evaluation**

**Advisory Councils and Boards**

**2nd Level Review Recommendations**

**Institute Director**
- **Takes Action**

**Grants Management Specialist**
The NIH Extramural Team

- Program (PD)
- Grants Management (GMS)
- Review (SRO)
NIH Grants Application Cycle

Research Application

Center for Scientific Review

NIH Institute

Peer Review

Council Review

Funding

PD → SRO → PD → GMS
NIH Grants System &
Division of Cancer Biology