

National Institutes of Health Sexual & Gender Minority Regional Workshop

Boston, MA
May 12, 2018



Philip O. Renzullo, PhD, MPH (Pronouns: He & Him)

Division of AIDS

Vaccine Research Program

NIAID, NIH

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SGM Research Coordinating Committee

27 Institutes and Centers

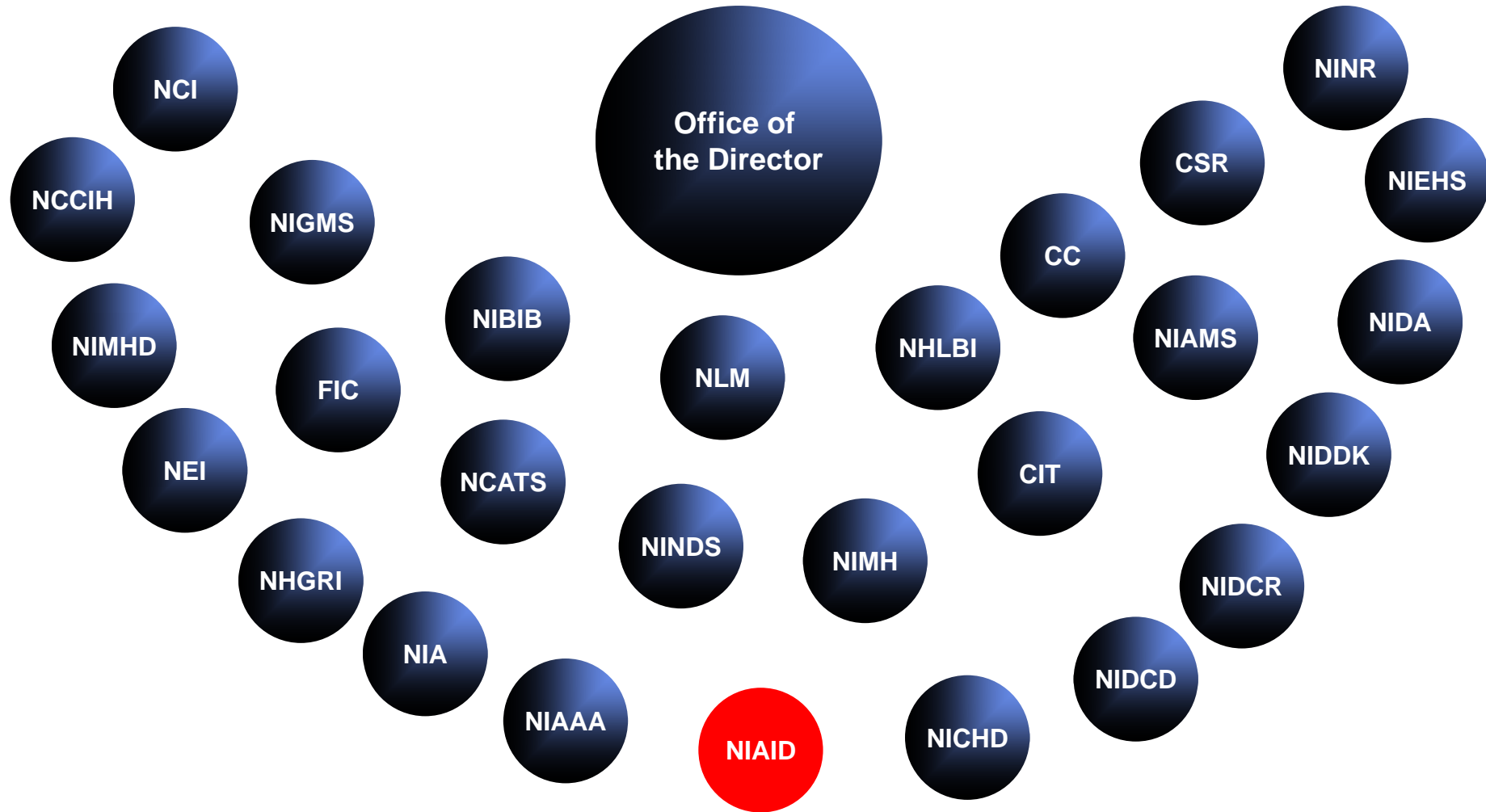


- **Office of the Director:** central office, responsible for setting policy and for planning, managing and coordinating programs and activities of all NIH components
- Different Missions & Priorities
- Individual Budgets
- Varied Funding Strategies



- Invests over \$32 billion annually in medical research for the American people, through its Extramural and Intramural Research Programs
- Extramural Research:
 - More than 80% of the NIH's funding awarded through almost 50,000 [competitive grants](#) to more than 300,000 researchers at more than 2,500 institutions in every state and around the world
 - 1st level of review: Peer review by scientific experts
 - 2nd level of review: IC Advisory Council/Board
 - Final funding decisions made by IC Directors
- Intramural Research:
 - About 10% of the NIH's budget supports projects conducted by nearly 6,000 scientists in its own laboratories

NIH Institutes and Centers



Funding Opportunities

- Advertised through:
 - Grants.gov
 - NIH Guide for Grants and Contracts
- Issued by:
 - Each NIH Institute and Center (IC)
 - Often with other Participating ICs

Funding Opportunity Announcements (FOA)

<i>Type of FOA</i>	<i>Description</i>
Program Announcements (PA, PAR, PAS)	<ul style="list-style-type: none">• Highlights areas of focus• Usually ongoing (3 yrs)• Often use standard receipt dates
Requests for Applications (RFA)	<ul style="list-style-type: none">• Narrowly defined scope• Usually single receipt date• Set aside funds• IC typically convenes a review panel
Parent Announcements	<ul style="list-style-type: none">• Type of program announcement• Generally span the breadth of NIH mission• By activity code (R01, R03, etc)• For “investigator initiated” or “unsolicited” research ideas

NIH Grants Process Overview



[Grants.nih.gov/grants/grants_process.htm](https://grants.nih.gov/grants/grants_process.htm)

Main Types of NIH Grants

- Research Grants (R series)
- Career Development Awards (K series)
- Research Training and Fellowships (T & F series)
- Program Project/Center Grants (P series)
- Resource Grants (various series)
- Trans-NIH Programs

Popular Research Grant Types

R01

NIH Research Project Grant Program

- Used to support a discrete, specified, circumscribed research project
- NIH's most commonly used grant program
- No specific dollar limit unless specified in FOA
- Advance permission required for \$500K or more (direct costs) in any year
- Generally awarded for 3 -5 years
- Utilized by all ICs

R03

NIH Small Grant Program

- Provides limited funding for a short period of time to support a variety of types of projects, including: pilot or feasibility studies, collection of preliminary data, secondary analysis of existing data, small, self-contained research projects, development of new research technology, etc.
- Limited to two years of funding
- Direct costs generally up to \$50,000 per year
- Not renewable
- Utilized by more than half of the NIH ICs

Popular Research Grant Types (2)

R15

NIH Academic Research Enhancement Award (AREA)

- Support small research projects in the biomedical and behavioral sciences conducted by undergraduate and/or graduate students and faculty in institutions of higher education that have not been major recipients of NIH research grant funds
- Eligibility limited (see <https://grants.nih.gov/grants/funding/area.htm>)
- Direct cost limited to \$300,000 over entire project period
- Project period limited to up to 3 years
- All NIH ICs utilize except FIC and NCATS

R21

NIH Exploratory/Developmental Research Grant Award

- Encourages new, exploratory and developmental research projects by providing support for the early stages of project development. Sometimes used for pilot and feasibility studies.
- Limited to up to two years of funding
- Combined budget for direct costs for the two year project period usually may not exceed \$275,000.
- No preliminary data is generally required
- Most ICs utilize

Popular Research Grant Types (3)

P01

Research Program Project Grant

- Support for integrated, multi-project research projects involving a number of independent investigators who share knowledge and common resources
- Each project contributes or is directly related to the common theme of the total research effort, thus forming a system of research activities and projects directed toward a well-defined research program goal
- Specific dollar limit unless specified in FOA

U01

Research Project Cooperative Agreement

- Supports discrete, specified, circumscribed projects to be performed by investigator(s) in an area representing their specific interests and competencies
- Used when substantial programmatic involvement is anticipated between the awarding Institute and Center
- One of many types of cooperative agreements
- No specific dollar limit unless specified in FOA

Grants Basics

[Understand NIH](#)

[What Does NIH Look For](#)

[Who is Eligible](#)

[Types of Grant Programs](#)

[Types of Applications](#)

[Grants Process Overview](#)

[Plan Your Application](#)

[How to Apply](#)

[Receipt & Referral](#)

[Peer Review](#)

[Pre-Award and Award Process](#)

[Post-Award Monitoring and Reporting](#)

[Forms Library](#)

[Information For](#)

Grants Basics

Before getting started, learn why it is important to understand the structure of NIH and how we approach grant funding, what types of organizations what we look for in a research project, and the types of grant programs we offer.



Understanding NIH: Finding the Right Fit for Your Research

As you begin your journey in search of NIH grant funding, learn why understanding the structure of NIH is important to successfully navigate the grant

What Does NIH Look For?

The NIH provides financial support in the form of grants, cooperative agreements, and contracts to support the advancement of the NIH mission to e lives, and reduce the burdens of illness and disability. We encourage submission of unique projects of high scientific caliber. Learn more about our int research and unsolicited research projects. [Learn more.](#)

Who is Eligible

Each type of NIH grant program has its own set of eligibility requirements. Applicants can find eligibility information in Section III of each funding opp While the principal investigator conceives and writes the application, NIH recognizes the applicant institution as the grantee for most grant types. [Lea](#)

Types of Grant Programs

This page will help you explore the types of grant funding NIH offers, from research grants to career development awards, research training and fello

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NIH Guide to Grants and Contracts

Track the release of new funding opportunity announcements and notices that we publish in the NIH Guide for Grants and Contracts:

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Receive weekly emails (usually on Friday afternoon) with with the [Current Weekly Table of Contents \(TOC\)](#) from the NIH Guide to Grants and Contracts including direct links to all funding opportunities and notices published during the week.

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http://grants.nih.gov/grants/guide/listserv_dev.htm

New Funding Opportunities

· See the list

Feature Articles

Where Are They Now? NIAID's Top Extramural Webpages

In September 2016, our NIAID Research Funding website content migrated into the NIAID website (<https://www.niaid.nih.gov/>) structure you see today. Have you found your favorite NIAID extramural webpages?

Here are the modern equivalents for the 10 most popular topics:

1. **Sample Applications & More.** Our most frequently visited page. We recently posted new R01 application samples and summary statements and plan to update other samples over the coming year.
2. **Paylines & Funding.** This section offers NIAID Paylines, the latest Salary Cap & Stipends, and more financial information.
3. **NIAID Funding News.** You're reading it right now. You can Subscribe to Email Alerts and see more ways to Stay Informed About Policy Changes & News.
4. **All About Grants.** The guidance we used to present as separate tutorials now fills the sections you find under the Grants & Contract tab on the NIAID website.

Old Tutorial Topic	New Section Link
Strategy for NIH Funding	Find this content by stage: Find a Funding Opportunity, Apply for a Grant, After You Submit an Application, and Manage Your Award
New Investigators	Information for New Investigators
Multiproject Research	Multiproject Research (P, U) Applications
Research Animals	Research Using Vertebrate Animals
Human Subjects and Clinical Trials	Research Using Human Subjects and Investigator-Initiated Clinical Trial Resources
Research Training and Career Awards	Training and Career Development Grant Programs
SBIR and STTR Awards	Small Business Programs and Small Business Grant Application Process
Foreign	International Applications and Foreign Grants Management

5. **Opportunities & Announcements.** The funding opportunities list now features filter and search options. A second tab on that same page offers Special Announcements, NIAID-specific selections from the *NIH Guide*.

6. **Understand Paylines and Percentiles.** Find how NIH calculates percentiles and why it uses them.

7. **Timelines & Due Dates.** Get an overview of timing from application to award, an understanding of due dates and review cycles, and more.

8. **Research Rules & Policies.** Find our public Standard Operating Procedures here.

9. **Contracts.** See NIAID solicitations, rules for contracts, and contact information.

10. **Respond to Pre-Award Requests ("Just-in-Time").** Learn how NIH and NIAID request information before award, what information to prepare, and how to send it.

If you'd like help finding a web resource, let us know at deaweb@niaid.nih.gov (<mailto:deaweb@niaid.nih.gov>). In upcoming editions of *Funding News*, we will do a deeper dive into NIAID's extramural web content.

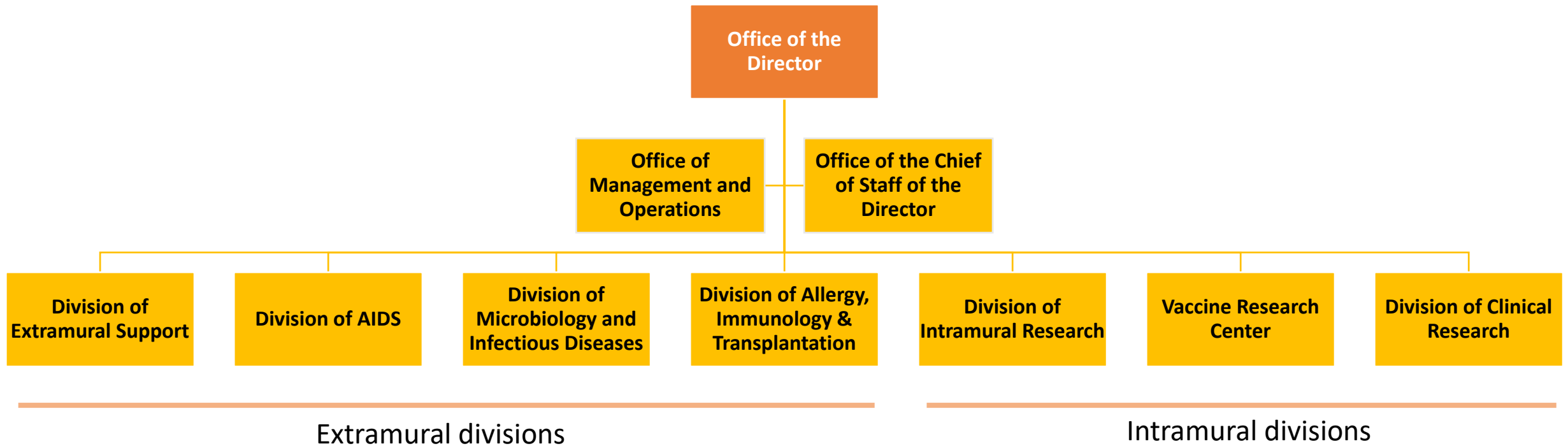
NIAID FUNDING NEWS

NIH Resources

- **Everything You Wanted to Know About the NCI Grants Process:** <http://www3.cancer.gov/admin/gab/2005GPB/GPB05-LowRes.pdf>
- **NIAID's All About Grants tutorials page:** <http://funding.niaid.nih.gov/researchfunding/grant/pages/aag.aspx>
- **NIH-OER on planning your application:** http://grants.nih.gov/grants/planning_application.htm
- **NIH-CSR review process videos:**
<http://cms.csr.nih.gov/ResourcesforApplicants/InsidetheNIHGrantReviewProcessVideo.htm>
- **NIH-OER on writing your application:** http://grants.nih.gov/grants/writing_application.htm
- **Grant seeking basics: A guide for the communication scholar** *Featuring Bill Elwood and NSF's Amber Story:*
<http://www.natcom.org/Default.aspx?id=2147484475&libID=2147484475> **(Please note that this is a non-NIH website)**
- **Technical assistance webinar on OppNet's R24 RFA, Basic social and behavioral research on culture, health and wellbeing**
<http://www.nea.gov/research/taskforce/oct4-2012.html>
- **An NIH grants tutorial:**
<http://www.niaid.nih.gov/ncn/grants/>
- **More tips on preparing applications:**
http://grants1.nih.gov/grants/grant_tips.htm
- **A video of the review process:**
<http://www.csr.nih.gov/video/video.asp>

Disclaimer: Some NIH sites may provide links to other Internet sites only for the convenience of World Wide Web users. NIH is not responsible for the availability or content of these external sites, nor does NIH endorse, warrant or guarantee the products, services or information described or offered at these other Internet sites.

National Institute of Allergy and Infectious Diseases



National Institutes of Health Budget Comparison by Institute/Center (Dollars in Thousands)

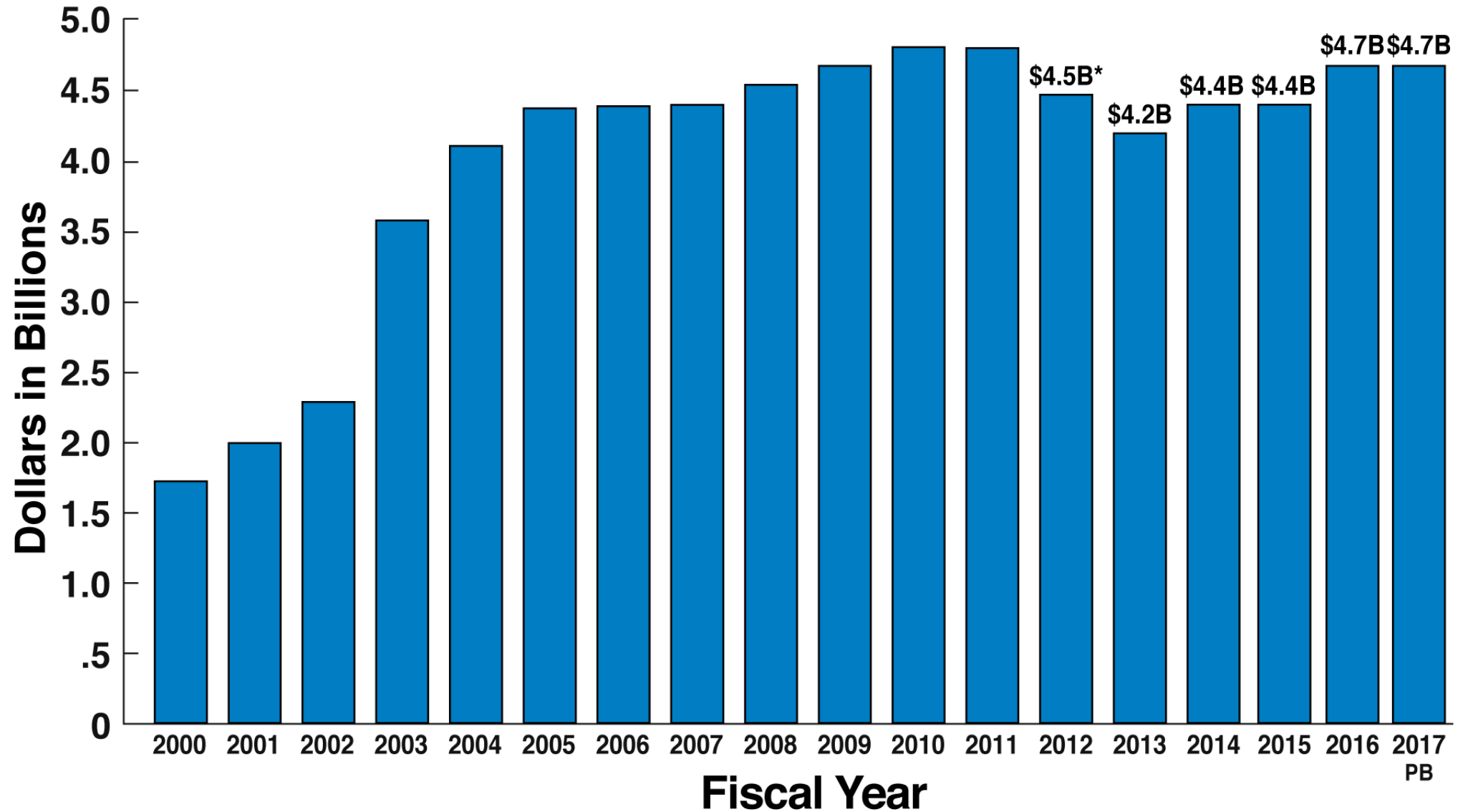
IC	FY 2016 Enacted	FY 2017 President's Budget	Percent Change
NCI ¹	\$ 5,213,509	\$ 5,893,509	13.0%
NIAID²	4,715,697	4,715,697	0.0%
NHLBI	3,113,533	3,113,533	0.0%
NHGRI	513,227	513,227	0.0%
NCATS	685,417	685,417	0.0%
NIGMS	2,512,437	2,512,437	0.0%
NIA	1,598,246	1,598,246	0.0%
Other ICs	\$ 12,259,220	\$ 12,259,220	0.0%
Subtotal	\$ 30,611,286	\$ 31,291,286	2.2%
OD ³	1,571,200	1,716,200	9.2%
B&F	128,863	128,863	0.0%
Total	\$ 32,311,349	\$ 33,136,349	2.6%

¹Increase of \$680M for National Cancer Moonshot Initiative

²FY 2016 enacted excludes \$81M in Zika funding from HHS Ebola funds and Secretary's transfer from other NIH ICs

³Increase of \$100M for Precision Medicine Initiative and \$45M for BRAIN Initiative

NIAID Funding, FY 2000-2017



*Beginning in FY 2012, budget no longer passes through funds to the Global Fund.

NIAID Payline History

FY	Percentile	New PI (%)
2016	13	17
2015	12	16
2014	9	13
2013	8	12
2012	10	14
2011	10	14
2010	11	16
2009	12	25
2008	12	14
2007	12	14
2006	14	16
2005	18	-

- Funding cutoff points for all grant types
- Based on overall impact/priority score or percentiles (R01s only)
- Set conservatively each fiscal year
- Vary across NIH ICs

NIAID Success Rates (SR)

All RPGs

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
# of Applications	4,611	5,104	4,900	4,776	4,749	4,889	4,914	5,416	5,367	5,731	5931	6059
Awards	1,164	1,049	1,127	1,090	887	1,170	994	1,255	1,008	1,257	1,272	1,452
SR (%)	25	21	23	23	19	24	20	23	19	22	21.4	24

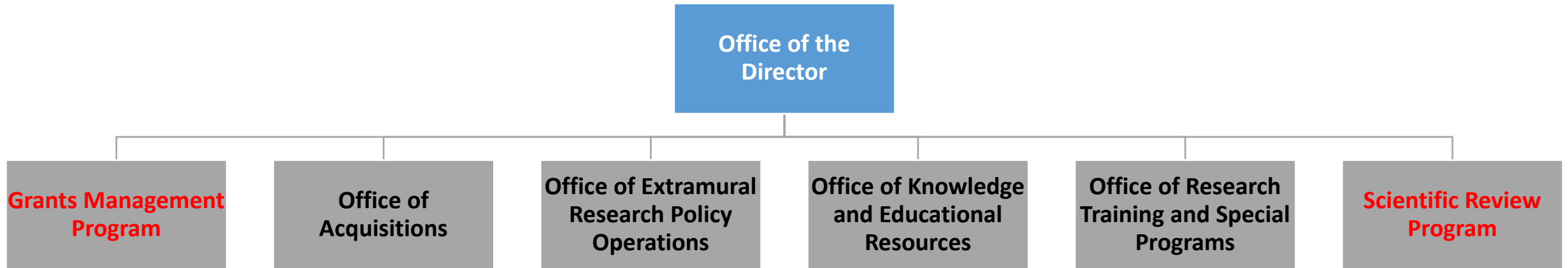
AIDS and AIDS-related RPGs

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
# of Applications	1,102	1,123	1,069	1,035	1,085	1,037	1,237	1,192	1,223	1,681	1294	982
Awards	296	249	310	257	211	255	271	247	242	429	295	263
SR (%)	27	22	29	25	19	25	22	21	20	25.5	22.8	26.8

NIAID FY 2017 Interim Financial Management Plan

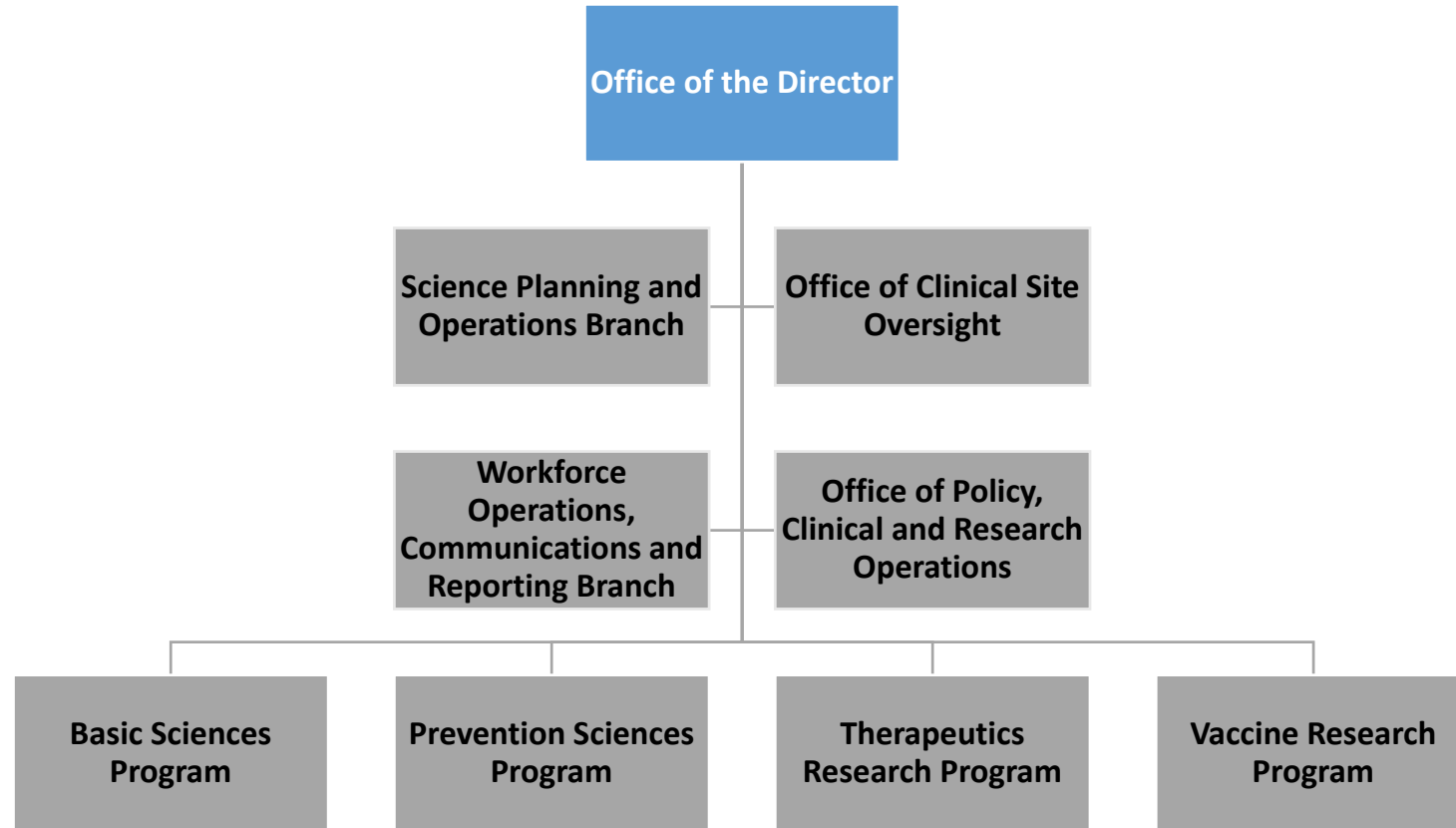
- **R01 Payline**
 - Established PI: 10th percentile
 - New PI: 14th percentile
- **Non-competing and competing grants: No adjustments**
- **Competing research initiatives: Cut up to 10%**
- **Estimated success rates: 20-22%**

Division of Extramural Activities



- Provides scientific leadership and oversight for the initial scientific merit review of Institute initiatives, grants, contracts, and cooperative agreements, and unsolicited program projects, training grants, and fellowships;
- Determines the scientific priorities for Institute initiatives through scientific review, technical interpretation of policy, and professional judgment;
- Provides monitoring and oversight of the management of research grants and contracts to ensure NIAID/NIH/PHS/DHHS policies are adhered to;
- Performs activities that empower the four extramural divisions to complete all the activities necessary for final scientific and programmatic review of all initiatives by the National Advisory Council for Allergy and Infectious Diseases;
- Advises the Institute Director on extramural program policies for research contracts, grants, cooperative agreements, and training programs;
- Manages and conducts the scientific review of all applications submitted in response to all initiatives from the Institute;
- Manages the chartered scientific review committees and the National Advisory Allergy and Infectious Disease Council;
- Provides grant and contract management and processing services to all Institute programs; prepares and issues awarding and encumbrance documents for all Institute extramural programs;

Division of AIDS



High-priority areas of HIV/AIDS research are those that:

- Reduce incidence of HIV/AIDS, through the development of better PrEP and safe and effective vaccines
- Develop the next generation of HIV therapies with improved safety and ease of use
- Discover and develop a cure for HIV/AIDS
- Improve prevention and treatment of HIV-associated co-morbidities and co-infections
- Foster cross-cutting areas of basic research, health disparities research, and training

The NIAID HIV/AIDS Clinical Trials Networks are designed to address NIAID's five HIV/AIDS scientific priorities

1. Therapeutics for HIV/AIDS and HIV-associated infections in adults (including HIV cure, and co-occurring noninfectious and infectious diseases, including hepatitis and tuberculosis)

AIDS Clinical Trials Group

Principal Investigator: Daniel R. Kuritzkes, M.D.; Brigham and Women's Hospital, Boston, Massachusetts

2. HIV/AIDS and HIV-associated infections in mothers and children

International Maternal Pediatric Adolescent AIDS Clinical Trials

Principal Investigator: Sharon Nachman, MD; Johns Hopkins Hospital School of Medicine, Baltimore, Maryland

3. Integrated strategies to prevent HIV infection

HIV Prevention Trials Network

Principal Investigator: Wafaa El-Sadr, M.D., M.P.H., and Myron Cohen, M.D.; FHI 360, Durham, North Carolina

4. Vaccines to prevent HIV infection

HIV Vaccine Trials Network

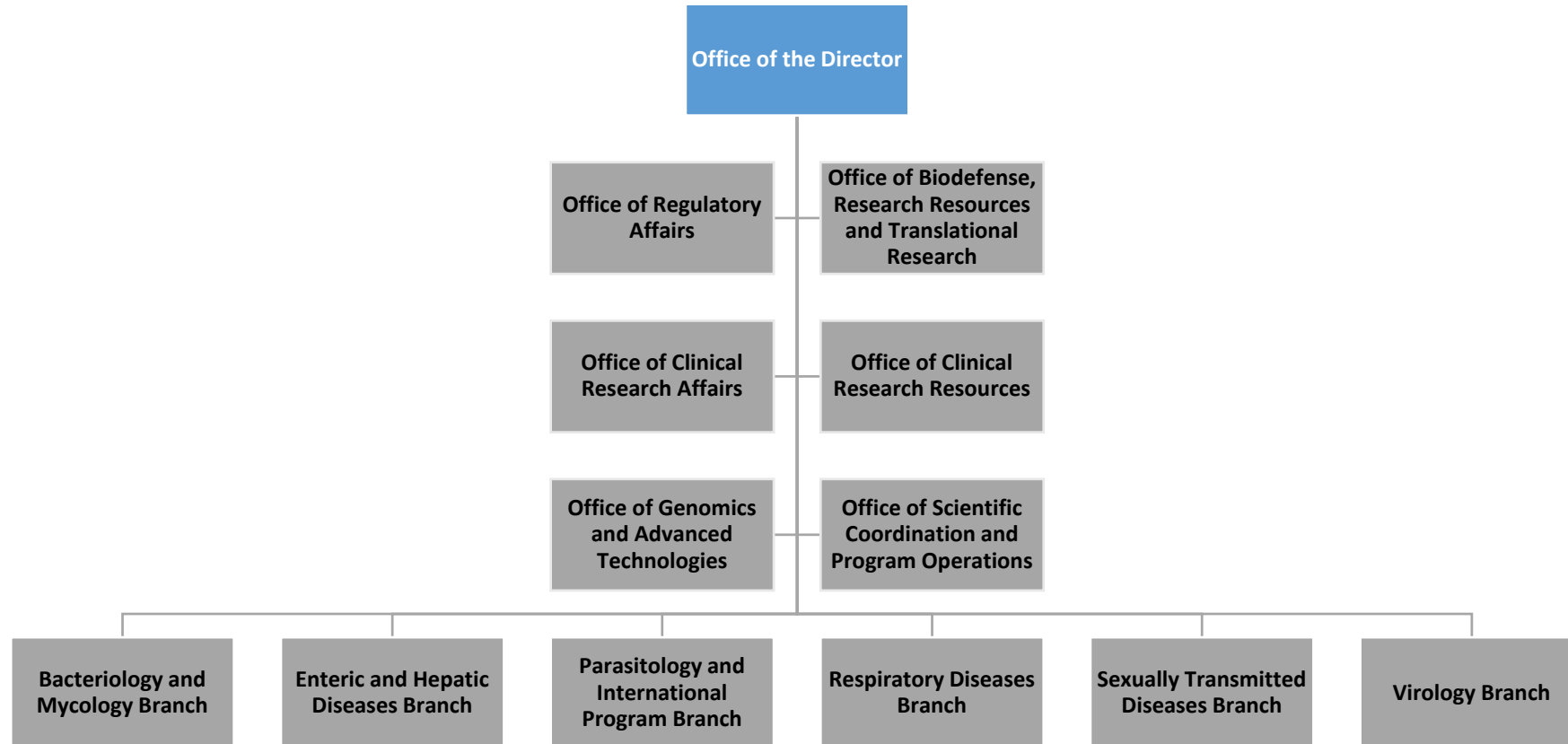
Principal Investigator: Lawrence Corey, M.D., Glenda Gray, M.B.B.Ch., and Scott Hammer, M.D.; The Fred Hutchinson Cancer Research Center, Seattle, Washington

5. Microbicides to prevent HIV infection

Microbicide Trials Network

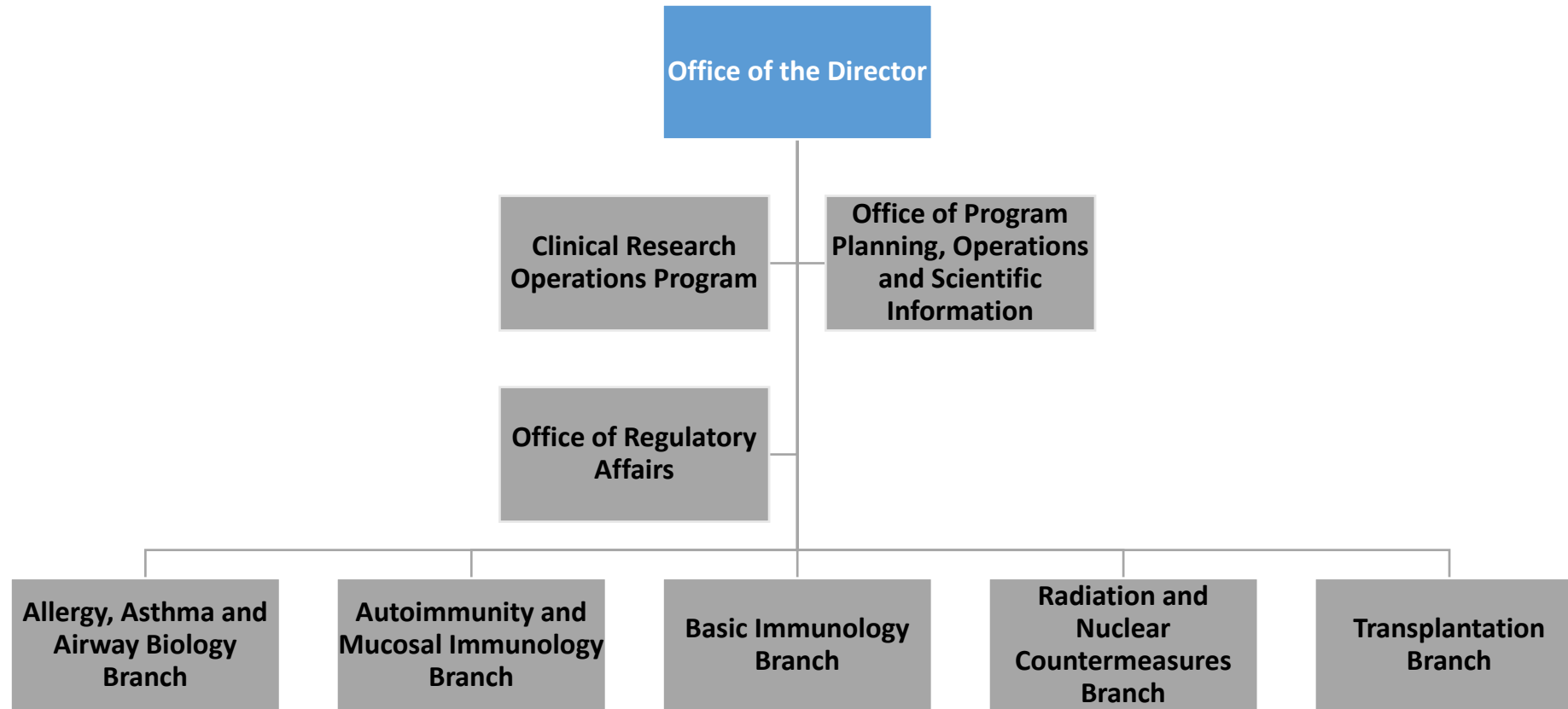
Principal Investigator: Sharon L. Hillier, Ph.D.; Magee-Womens Research Institute and Foundation, Pittsburgh, Pennsylvania

Division of Microbiology and Infectious Diseases



- Supports extramural research to control and prevent diseases caused by virtually every human infectious agent (except HIV)
- Supports a wide variety of projects spanning the spectrum from basic research through applied research, along with the development and clinical evaluation of new drugs, vaccines, and diagnostics
- Supports a comprehensive set of resources for researchers to facilitate the preclinical and clinical research needed to translate the ideas generated through basic research into safe and effective drugs, vaccines, and diagnostics to control and prevent infectious diseases

Division of Allergy, Immunology and Transplantation



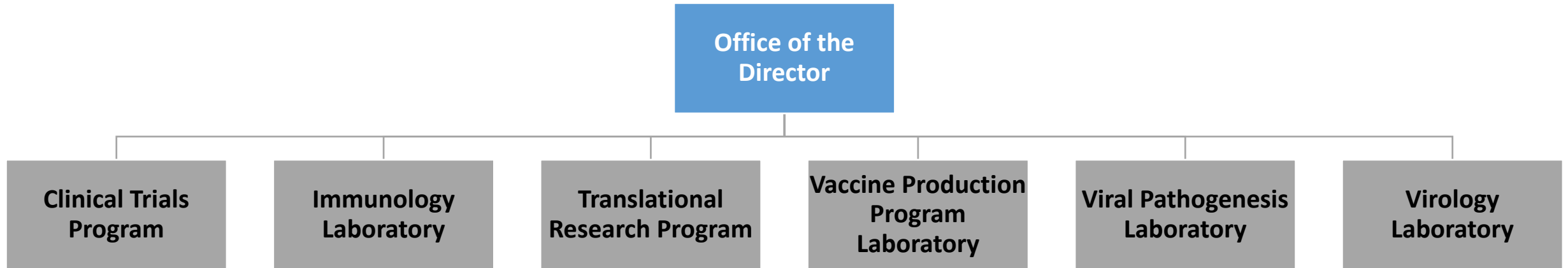
Focuses on the ways the immune system functions in maintaining health and the ways it malfunctions in producing disease.

- Asthma, food allergy, atopic dermatitis (eczema), and other allergic diseases such as rhinitis (which affects the nose) and rhinosinusitis (which affects the sinuses)
- Autoimmune diseases, such as insulin-dependent diabetes mellitus and systemic lupus erythematosus
- Acute and chronic inflammatory disorders such as inflammatory bowel disease
- Cooperative research centers in asthma, allergic, and immunologic diseases, and human immunology in the context of biodefense
- Multidisciplinary projects in autoimmunity, transplantation immunology, new methods of immune intervention, host defense, and the basic biology of the immune system
- Cooperative multicenter clinical trials in asthma, food allergy, atopic dermatitis, and solid organ transplantation

Division of Intramural Research

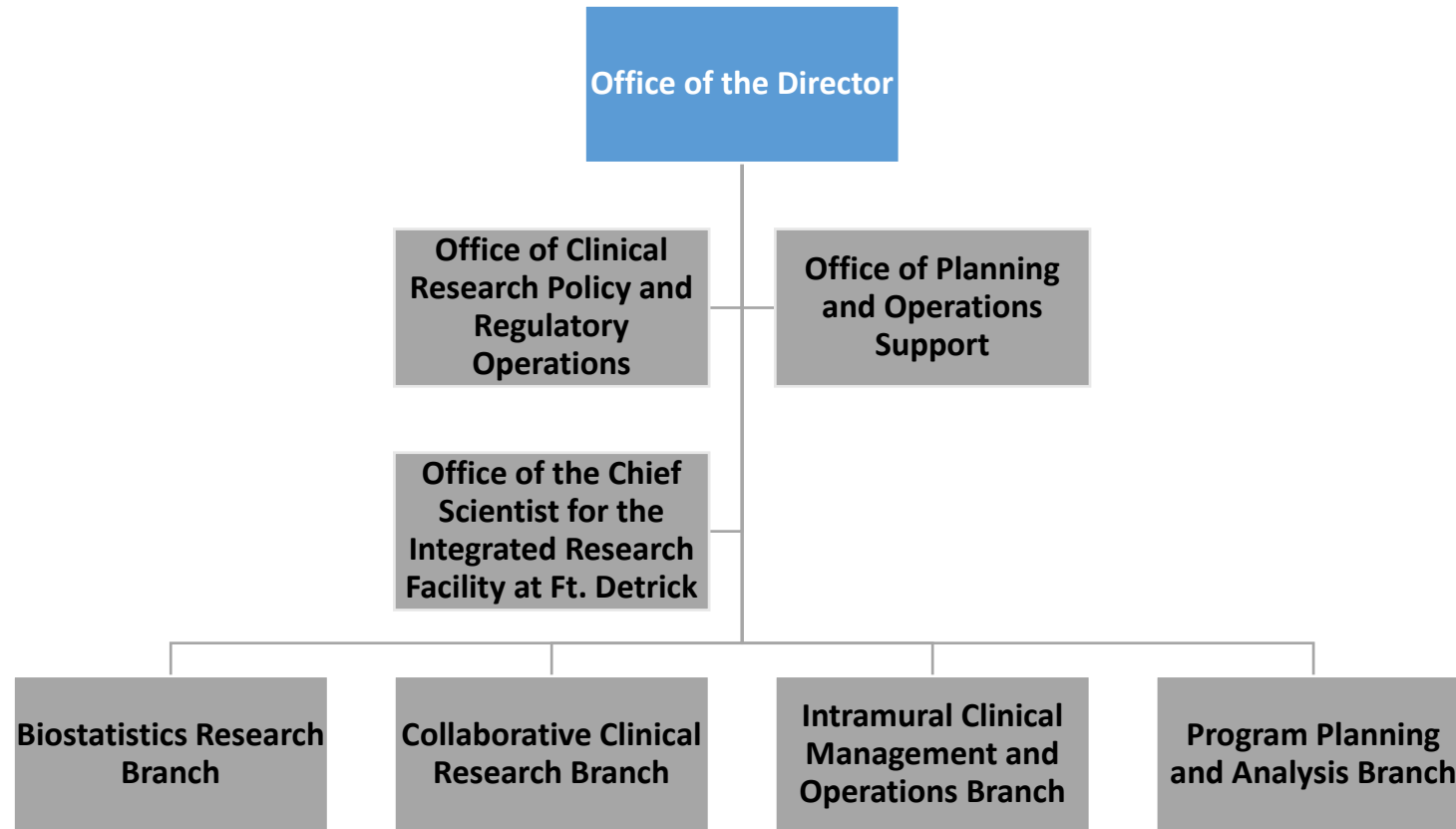
- [Office of the Director \(OD\)](#)
 - [Comparative Medicine Branch \(CMB\)](#)
 - [Emerging Viral Pathogens Section \(EVPS\)](#)
 - [Laboratory Infectious Diseases \(LID\)](#)
 - [Laboratory Parasitic Diseases \(LPD\)](#)
 - [Laboratory of Allergic Diseases \(LAD\)](#)
 - [Laboratory of Bacteriology \(LB\)](#)
 - [Laboratory of Clinical Immunology and Microbiology \(LCIM\)](#)
 - [Laboratory of Clinical Infectious Diseases \(LCID\)](#)
 - [Laboratory of Host Defenses \(LHD\)](#)
 - [Laboratory of Immune System Biology \(LISB\)](#)
 - [Laboratory of Immunogenetics \(LIG\)](#)
 - [Laboratory of Immunology \(LI\)](#)
 - [Laboratory of Immunoregulation \(LIR\)](#)
 - [Laboratory of Malaria Immunology and Vaccinology \(LMIV\)](#)
 - [Laboratory of Malaria and Vector Research \(LMVR\)](#)
 - [Laboratory of Molecular Immunology \(LMI\)](#)
 - [Laboratory of Molecular Microbiology \(LMM\)](#)
 - [Laboratory of Persistent Viral Diseases \(LPVD\)](#)
 - [Laboratory of Systems Biology \(LSB\)](#)
 - [Laboratory of Viral Diseases \(LVD\)](#)
 - [Laboratory of Virology \(LV\)](#)
 - [Laboratory of Zoonotic Pathogens \(LZP\)](#)
 - [Molecular HIV Host Interactions Section \(MHHIS\)](#)
 - [Office of Operations Management at Rocky Mountain Laboratories \(OOM\)](#)
 - [Office of Scientific Management at Rocky Mountain Laboratories \(OSM\)](#)
 - [Office of Training Diversity \(OTD\)](#)
 - [Research Technologies Branch \(RTB\)](#)
 - [Rocky Mountain Veterinary Branch \(RMVB\)](#)
 - [Viral Immunology Section \(VIS\)](#)
- Plans and conducts the Institute's laboratory and clinical research program
- evaluates research efforts and establishes program priorities;
- Allocates funds, space, and personnel ceilings and integrates ongoing and new research activities into the program structure;
- Collaborates with other Institute and NIH programs and maintains an awareness of national research efforts in program areas;
- Advises the Institute Director and staff of the intramural research and areas of science of interest and importance to the Institute;
- Provides technical services related to scientific areas of technology, on a shared basis, to the laboratories of the Intramural Research Program

Vaccine Research Center



- Established to facilitate research in vaccine development
- Dedicated to improving global human health through the rigorous pursuit of effective vaccines for human diseases
- Established to develop an AIDS vaccine, the VRC is a unique venture within the NIH intramural research program.
- Initially spearheaded by NIAID, the National Cancer Institute, and the NIH Office of AIDS Research, the VRC is now part of the NIAID organization

Division of Clinical Research



- Facilitates efficient and effective performance of domestic and international NIAID research programs
- Provides support services vital to the research infrastructure through a multi-faceted approach
- Oversees and manages Intramural clinical research, program planning and management, regulatory monitoring and compliance, statistical consultation and research methodology, and clinical research capacity building