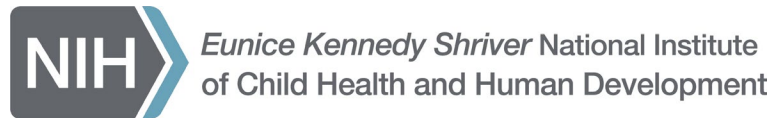


NICHD Clinician Scientist Investigator Meeting

Opportunities for Research at Intramural NIH and
the NIH Clinical Research Center



National Institutes of Health

- 27 Institutes and Centers
 - Extramural Research Program (Primarily University based)
 - Grants
 - Intramural Research Program (Primarily NIH Bethesda, MD campus)
 - Board of Scientific Counselor Review
 - High risk/high reward research
 - Research that would be difficult in the extramural environment (longitudinal studies)
- *Eunice Kennedy Shriver* National Institute of Child Health and Human Disease
 - Intramural research program
 - 60 Tenured and tenure-track investigators
 - 12 Affinity Groups



NICHD DIR Areas of Expertise

- Basic Science

- Developmental Biology
- Cell and Structural Biology
- Genetics, Genomics and Epigenetics of Development
- Neurosciences

- Core Facilities in NICHD

- Bioinformatics
- Microscopy and imaging
- Molecular Genomics
- Zebrafish
- Mouse facility

- Clinical Science

- Endocrinology
 - Pediatric
 - Endocrine oncology
 - Reproductive
- Clinical Genetics
 - Rare Diseases
- Adolescent Gynecology

**Recruiting in areas of interest to NICHD
Pediatrics and Women's Health**



The NIH Clinical Center ("House of Hope")

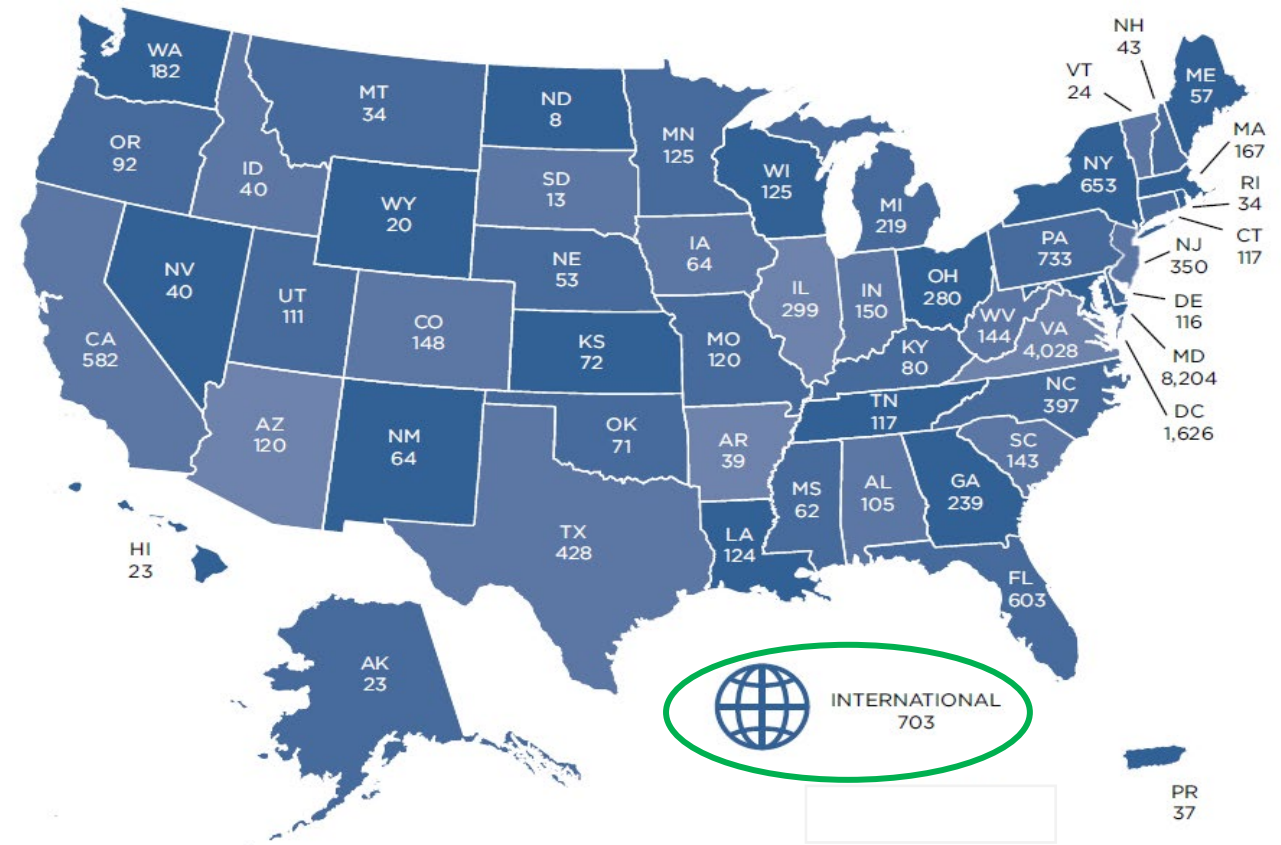
- Opened in 1953; more than 500,000 patients since opening
- Clinical Research Center opened in April 2005; 240 beds
- Approximately 1,300 credentialed physicians
- Approximately 1600 active protocols and 500 PIs
 - 49% Interventional Trials (Phase 1/2)
 - 45% Natural History
- FY2018 CC Budget: ~\$500M
- 18 ACGME Medical Training Programs, 4 with NICHD participation



The NIH Clinical Center

Home States of All Active Clinical Center Patients – 2018

- Research participants: 100%
- New patients: 9,755
- Inpatient days: 41,579
- Outpatient visits: 95,220



NICHD Clinical Research Program

- ~70-75 Clinical Protocols
- 30 Principal Investigators and 166 Associate Investigators
- Office of the Clinical Director
 - Staff clinicians (2 pediatric, 2 med/peds, 2 internal medicine)
 - Nurse practitioners
 - Research nurses
 - Protocol management/regulatory support
- Clinical Center “School Tax”
- NICHD-Duke Master’s Program in Clinical Research





NIH Intramural Research Positions

Postdoctoral Fellowships

- Intramural Research Training Awards and Visiting Fellows
- Basic and translational research
 - Laboratory research
 - Bioinformatics
 - Epidemiology
- 3 to 5-year program
- https://www.training.nih.gov/programs/postdoc_irp
- https://www.training.nih.gov/career_services/postdoc_jobs_nih



Staff Clinicians

- Clinical Research Support or Specialized Clinical Care
 - Board-eligible or board-certified in area of expertise
 - Focus on clinical care
 - Service position
 - Supports clinical research
 - Supports clinical training
- Academic advancement
 - Assistant Research Physician
 - Associate Research Physician
 - Senior Research Physician
- Can be a steppingstone to independent research positions
- <https://oir.nih.gov/sourcebook/personnel/ipds-appointment-mechanisms/staff-clinician#:~:text=A%20Staff%20Clinician%20is%20a,are%20placed%20in%20indefinite%20appointments.>



Assistant Clinical Investigators

- Mentored research positions
- Goal: Transition to tenure-track positions at the NIH or elsewhere
- Competitive merit-based national search
- Three-year appointments (can be renewed annually up to 5 years)
- Basic, translational and clinical research
 - $\geq 20\%$ patient-related activities
- Independent resources
 - Salary (FTE position), operating budget, personnel, space
 - Access to core facilities
 - Clinical support personnel (Nurse Practitioner/Research Nurse)
 - Use of the NIH Clinical Center
- <https://oir.nih.gov/sourcebook/personnel/ipds-appointment-mechanisms/assistant-clinical-investigator>



Tenure-Track Investigators

- Independent research positions
 - Assistant professor equivalent
 - Six to eight-year tenure-track period
- Mentorship committee and Board of Scientific Counselors review
- Independent resources
 - Start up package, budget, personnel and space consistent with proposed research plan
- Use of NICHD Core facilities
- Clinical support (Nurse practitioner/Research nurse)
- Use of the NIH Clinical Center



Stadtman Tenure-Track Investigators

- Broad, NIH DIR-wide search for Tenure-Track Investigators
- Basic science/PhD emphasis
 - Health Disparities
 - Translation from Pre-clinical to Clinical Research
- Independent research position
- Independent resources (~R01 equivalent)
- Tenure success rate: ~70%
- 2020-2021 application deadline: September 30th
- <https://irp.nih.gov/careers/trans-nih-scientific-recruitments/stadtman-tenure-track-investigators>



Lasker Clinical Research Scholars Program

- Goal: Identify exceptional, early stage clinical researchers and provide a transition to an independent position
- NIH funding for up to 10 years
 - 5-7 years tenure-track investigator in the NIH Intramural Research Program
 - NIH tenure or 3 years of extramural NIH funding (\$499,000/year direct costs)
- Candidates: Early stage clinical researchers with the ability to conduct independent research
- Application deadline: August
- <https://www.nih.gov/research-training/lasker-clinical-research-scholars>





Intramural/Extramural Collaboration

Bench-to-Bedside Awards

- Collaboration

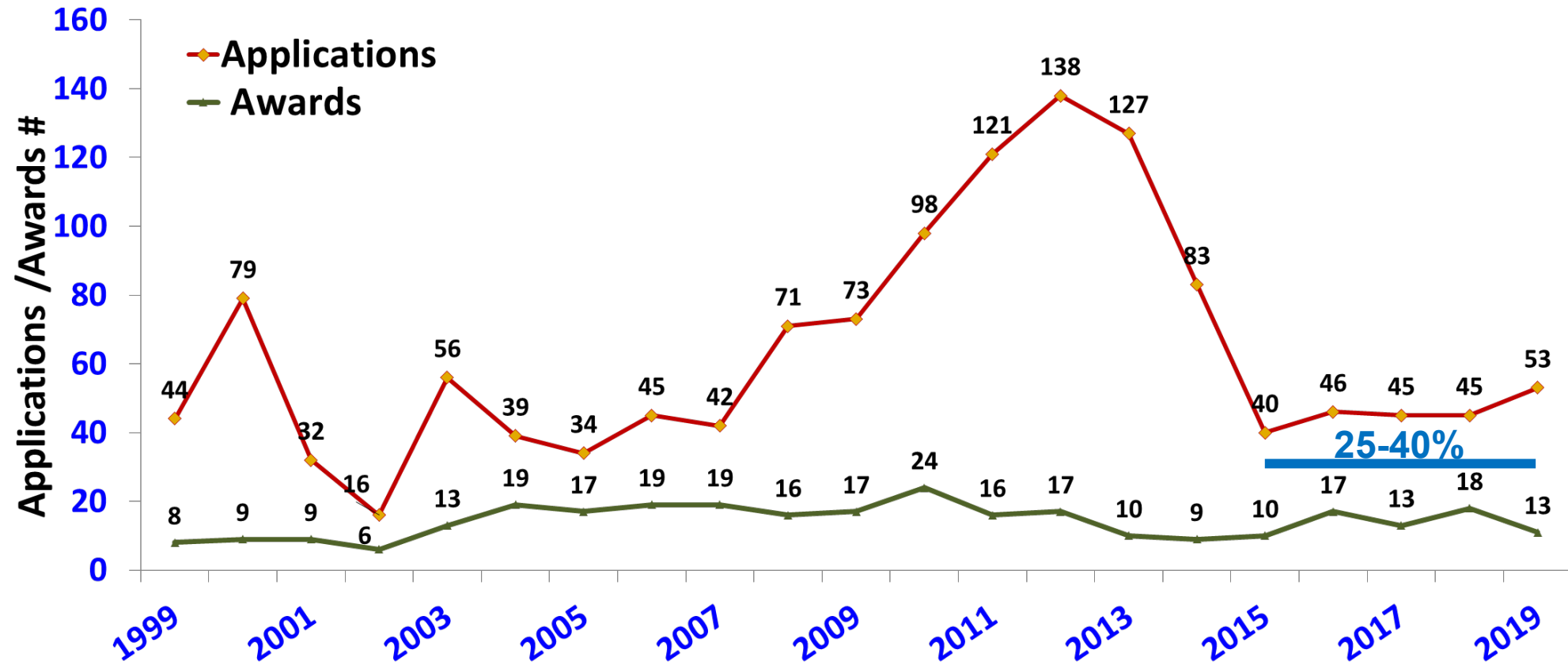
- Basic and clinical principal investigators
- Extramural and intramural investigators
- Promote use of the NIH Clinical Center
- Seed Awards: \$150,000/year (direct costs) for two years

- Categories

- HIV/AIDS
- Rare Diseases (Office of Rare Disease Research, NCATS)
- Behavioral and Social Sciences (Office of Behavioral and Social Sciences)
- Women's Health (Office of Research on Women's Health)
- Dietary Supplements (Office of Dietary Supplements)
- Minority Health and Health Disparities (National Institute on Minority Health & Health Disparities)
- General



Bench-to-Bedside Awards

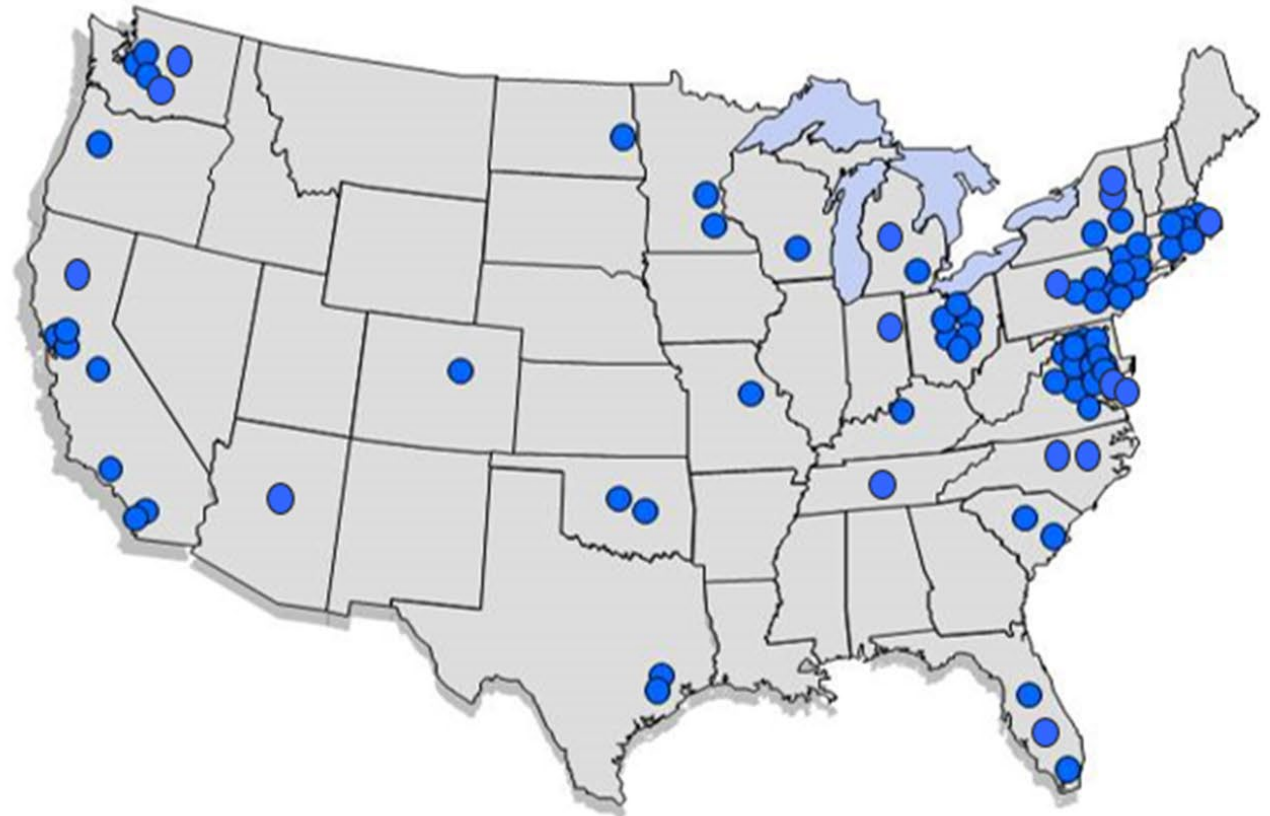


Bench-to-Bedside Awards

2006-2019: 205 awards, 96 sites



- Erasmus University Medical Center, Netherlands
- Hospital A.C. Camargo, Brazil
- Hospital for Sick Children, Canada
- Imperial College of London, UK
- International Agency for Research on Cancer, France
- Garvan Institute of Medical Health, Australia
- Makerere University, Uganda
- Sackler School of Medicine, Israel
- University of New South Wales, Aus
- University of Toronto, Canada
- University of Oxford, UK
- Zaria, Nigeria
- The University of Edinburgh, UK



Bench-to-Bedside Awards

- NICHD Bench-to-Bedside award metrics: 1999-2020
 - 138 /1070 (~13%) Applications led by NICHD investigator
 - 41 successful applications (2020 pending)
 - 31 included extramural collaborations
 - Funds to NICHD Investigators: ~\$5.6 million



Collaborating with NIH Intramural Investigators at the Clinical Center (U01 Program)

- **Goal:** to support collaborative research projects aligned with NIH efforts to enhance the translation of basic biological discoveries into clinical applications that improve health
- Up to \$500K/year x 4 years, renewable
- Teams **must** have one extramural and one intramural co-PI
- Some of the work **must** be done at the CC
- U01 funding mechanism



Collaborating with NIH Intramural Investigators at the Clinical Center (U01 Program)

IC	Cycle 1 2013	Cycle 2 2014	Cycle 3 2015	Cycle 4 2016	Cycle 5 2017	Cycle 6 2018	Cycle 7 2019	Total/IC
NIAAA	0	1	0	0	0	0	0	1
NHLBI	1	2	2	2	0	0	2	9
NHGRI	0	1	0	0	0	0	0	1
NCI	3	1	2	2	1	4*	1	14
NIAID	4	3	1	1	1	0	0	10
NICHD	2	2	0	2	0	0	0	6
Grand Totals	10	10	5	7	2	4	3	41

- 41 awards over last 7 years
- Mean success rate 18%
 - Range: 3-30%
- \$40.9 million





Why Consider the NIH DIR?

NIH Intramural Research Program

- High-Risk/High-Reward research encouraged
- Relatively stable funding
 - Research budget and 4-year review rather than competitive grants
 - Facilitates longitudinal studies
- The worlds largest research hospital



NICHD Clinical Research Program

For more information:

- NICHD Intramural Research Program
- <https://www.nichd.nih.gov/about/org/dir>
- NICHD Strategic Plan
- <https://www.nichd.nih.gov/about/org/strategicplan>
- Clinical Research Positions in NICHD
- fdporter@mail.nih.gov





Questions