NICHD and Pediatric Research at NIH

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Acting Associate Director for Extramural Research
January 6, 2021
What’s In a Name?

Joseph P Kennedy, Sr
(1888-1969)
First chairman of Securities & Exchange Commission, US ambassador to the UK for two years

Joseph P Kennedy, Jr
(1915-1944)
John F Kennedy
(1917-1963)
Kathleen Cavendish
(1920-1948)
Rosemary Kennedy
(1918-2005)

Eunice Kennedy Shriver
(1921-2009)
Patricia Kennedy Lawford
(1924-2006)
Robert F Kennedy
(1925-1968)
Jean Kennedy Smith
(1928-)

Rose Fitzgerald
(1890-1995)
The Kennedy Who Changed the World

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Rose Fitzgerald
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• President Kennedy signed authorization to establish NICHD in 1962 (Public Law 87-838)
• Renamed in 2007 – *Eunice Kennedy Shriver* National Institute of Child Health and Human Development
NICHD Strategic Plan
Mission
The NICHD leads research and training to understand human development, improve reproductive health, enhance the lives of children and adolescents, and optimize abilities for all.
Research Themes

- Understanding the Molecular, Cellular, and Structural Basis of Development
- Promoting Gynecologic, Andrologic, and Reproductive Health
- Setting the Foundation for Healthy Pregnancies and Lifelong Wellness
- Improving Child and Adolescent Health and the Transition to Adulthood
- Advancing Safe and Effective Therapeutics and Devices for Pregnant and Lactating Women, Children, and People with Disabilities
Cross-Cutting Themes

• Global Health
• Health Disparities
• Prevention
• Nutrition
• Infectious Disease

Credit: Guilak Lab, Washington University
NICHD Strategic Plan 2020 - One Year Anniversary! Implementation Progress

• Engaging NICHD staff to develop activities to make progress towards each objective
• Cannot focus on everything simultaneously; will prioritize based on scientific opportunity and resource availability
• Implementation process will remain flexible to accommodate advances in technology, national health priorities, etc.
• Transparency – we are reporting progress regularly our Advisory Council and in other public forums
Next Steps

- Continue refining implementation plans for all three focus areas of the Strategic Plan (Scientific Research Themes, Scientific Stewardship, Management & Accountability)

- Engage in new activities (and continue ongoing activities) to achieve the Goals and Objectives outlined in each focus area

- Develop metrics and track progress toward meeting Objectives

- Report progress externally via website (coming soon!)
Division of Extramural Research

Child Development and Behavior Branch (CDBB)

Contraception Research Branch (CRB)

Maternal and Pediatric Infectious Disease Branch (MPIDB)

Obstetric and Pediatric Pharmacology and Therapeutics Branch (OPPTB)

Developmental Biology and Structural Variation Branch (DBSVB)

Fertility and Infertility Branch (FIB)

Pediatric Growth and Nutrition Branch (PGNB)

Pediatric Trauma and Critical Illness Branch (PTCIB)

Gynecologic Health and Disease Branch (GHDB)

Intellectual and Developmental Disabilities Branch (IDDB)

Population Dynamics Branch (PDB)

Pregnancy and Perinatology Branch (PPB)
NIH Pediatric Research Consortium (N-PeRC)
NIH Pediatrics Spending by IC, FY 2019

- NICHD: $866M
- NCI: $519M
- NIAID: $477M
- NHLBI: $443M
- NIDDK: $439M
- NINDS: $333M
- NIH OD: $267M
- NIDA: $264M
- NICAMS: $231M
- NEIHS: $138M
- NIAAA: $134M
- NIDCR: $121M
- NIDCD: $116M
- NIAAMS: $89M
- NEI: $83M
- NHGRI: $81M
- NCATS: $71M
- NIMHD: $68M
- NIA: $66M
- NINR: $43M
- NIBIB: $33M
- FIC: $22M
- NCCIH: $9M
- Other ICs: $7M
NIH Pediatric Research Consortium (N-PeRC)

- Overview
- N-PeRC Members
- More Information

Overview

N-PeRC is a trans-NIH initiative that began in June 2018 to capitalize on pediatric research expertise and resources across NIH’s 27 institutes and centers through increased collaboration. The Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD) is the lead NIH institute for the consortium.

NIH support for pediatric research currently totals more than $4 billion. N-PeRC aims to harmonize these activities across institutes, explore gaps in the overall pediatric research portfolio, and share best practices to advance science. The consortium meets several times a year to discuss scientific opportunities and potential new areas of collaboration, including efforts to enhance research training for the next generation of pediatricians.

- Established in June 2018
- Chaired by Dr. Bianchi. Reps from >40 institutes/centers/offices
- Meet every 2 months
- Subgroups meet more frequently

https://www.nichd.nih.gov/research/supported/nperc
Trans-NIH Pediatric Research Consortium (N-PeRC)

- Major activities
  - Transition to adult health care work group
  - Expanding the pediatric research workforce
  - Pediatric data resources
  - Increase study section reviewers with child health expertise
  - Regular review/discussion of existing trans-NIH pediatric programs and upcoming workshops (e.g., BPCA, ABCD, HEAL)
  - COVID-19
  - Pediatric devices

https://www.nichd.nih.gov/research/supported/nperc
Transition to Adult Health Care Working Group

• Adolescents with chronic conditions or disabilities face increased challenges
• N-PeRC working group conducted a portfolio analysis of current research in this area
• https://web.cvent.com/event/1861c38c-e953-4ffa-a0f1-1688840fb295/summary
FY 2018 Pediatric Training/Career Development by IC*

Total awarded: $283,551,759

- Includes awards designated as pediatric in RCDC, as well as those affiliated with a pediatric department or pediatric hospital
- Some caveats:
  - Data likely underrepresent the amount of pediatric training support (e.g., NCATS’ CTSAs not included)
  - Does not capture pediatric trainees within general training programs
  - Does not capture graduate students and postdocs on research project grants
  - “T” awards categorized by title only, not abstract (likely undercounted)

*Preliminary data to be verified by ICs
• Centralized resource for researchers to share de-identified data from studies funded by NICHD. DASH also serves as a portal for requesting biospecimens from selected studies in DASH.

• Data sharing launched in August 2015; biospecimen request launched in March 2019

• Aims to accelerate scientific findings to ultimately improve human health

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**Study Topics in DASH**

- Adrenal Gland Disorders
- Amenorrhea
- Autism Spectrum Disorders
- Birth Defects
- Breastfeeding & Breast Milk*
- Cerebral Palsy
- Child Health*
- Childbirth
- Children’s Bone Health & Calcium
- Delayed Puberty
- Diabetes
- Driving Risk
- Early Learning
- Early Labor and Birth
- Fertility Problems
- High-Risk Pregnancy
- HIV/AIDS*
- Infant Care & Health *
- Infant Mortality
- Infertility & Fertility
- Labor & Delivery
- Men’s Reproductive Health
- Menkes Disease
- Necrotizing Enterocolitis
- Neuroscience
- Newborn Screening
- Obesity & Overweight
- Obstetrics
- Pediatric Injury
- Pelvic Floor Disorders
- Pharmacology
- Preconception & Prenatal Care
- Premutations & Eclampsia
- Pregnancy*
- Pregnancy Loss
- Preterm Labor & Birth*
- Primary Ovarian Insufficiency
- Puberty & Precocious Puberty
- Rehabilitation
- Medicine
- Sleep
- Spinal Cord Injury
- Stillbirth
- Stroke
- Sudden Infant Death Syndrome
- Traumatic Brain Injury
- Turner Syndrome
- Women’s Health*

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**https://dash.nichd.nih.gov**
In response to COVID-19, NIH has multi-IC collaborative efforts to address interdisciplinary challenges associated with the pandemic.

These efforts directly support the NIH’s Strategic Priorities outlined in its Strategic Plan for COVID-19 Research:
“Long COVID”

Workshop on Post-Acute Sequelae of COVID-19

December 3, 2020—December 4, 2020
10:00 AM-5:00 PM
Viewing in Eastern Time

Agenda
- Goal: To summarize existing knowledge of post-acute sequelae of COVID-19 and identify key knowledge gaps.

https://web.cvent.com/event/cf41e3b5-04e7-4e09-b25d-f33dfcd16fed/summary

- NIAID led this meeting that included a pediatric talk by Dr. Peter Rowe and a pediatric break out session led by Dr. Atz.

- Working with NINDS, NHLBI, and NIAID to explore this in existing collaborations
Loan Repayment Program
About the LRPs

NIH Loan Repayment Programs (LRPs) represent a vital component of our nation's efforts to keep health professionals in research careers.

Here's how it works:

**YOU:** Commit to perform research for 2 years

**NIH:** Repays up to $50,000/year of your qualified educational debt & covers resulting Federal taxes (39%)

**Outcome:** Increase in nation’s stock of biomedical research scientists
Basic LRP Eligibility Criteria

**Doctoral Degree**
- M.D., Ph.D., or equivalent
  - *Exception: Contraception & Infertility Research LRP

**Research Funding**
- Domestic nonprofit, university, or government organization;
  - *NIH grant support NOT required

**Citizenship**
- U.S. Citizen or permanent resident

**Educational Loan Debt**
- At least 20 percent of applicant’s annual income

**Research Time**
- At least 20 hours/week
Contact LRP

Website:  www.lrp.nih.gov
Phone:  866-849-4047 (9am-5pm, ET)
Email Inquiries:  lrp@nih.gov
Twitter: @NIH_LRP
Facebook: www.facebook.com/nihlrp
We are hiring!
We are hiring!

- Senior Policy Advisor for Clinical Research
- Branch Chief
  - Pregnancy and Perinatology Branch
- Program Officers
  - Child Development and Behavior Branch
  - Gynecologic Health and Disease Branch
  - Intellectual and Developmental Disabilities Branch
  - Obstetric and Pediatric Pharmacology and Therapeutics Branch
  - Pregnancy and Perinatology Branch
- Scientific Review Officer
- Division of Intramural Research Investigators
  - Developmental biology
  - Translational
  - Early stage clinical

More info at https://www.nichd.nih.gov/about/jobs
Thank you!
Questions?