

Robotics at NIH

Michael B. Wolfson, Ph.D.

Michael.Wolfson@nih.gov

10/29/2018

NIH is **not** participating in the NRI 2.0 solicitation



NIH is interested in funding research* using robotics to address unmet medical needs

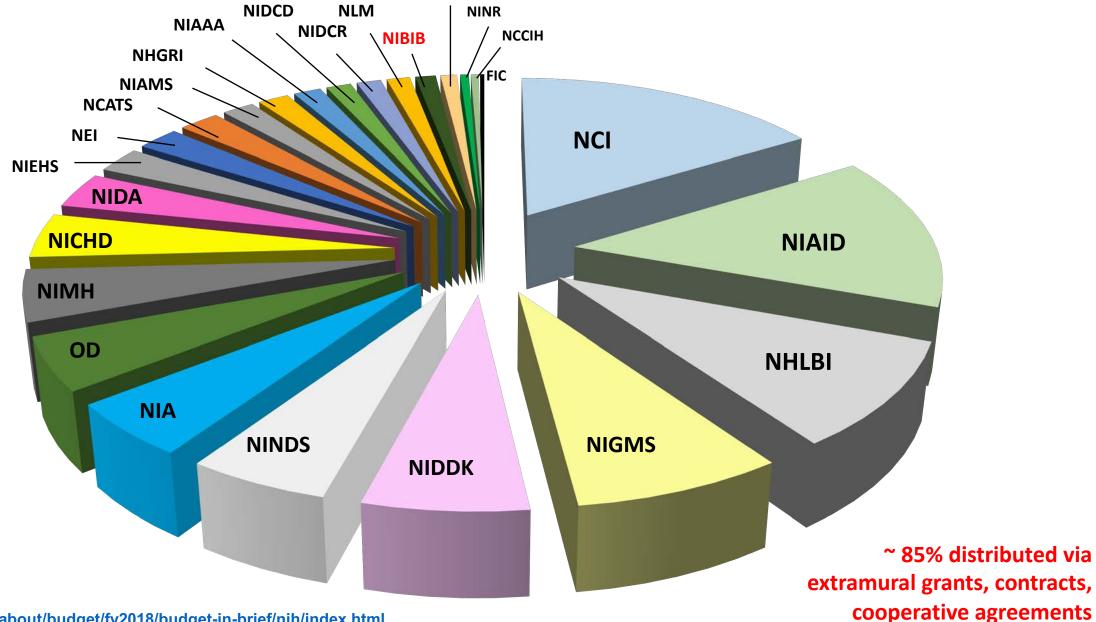
*You will need to apply to an NIH solicitation

Your Relevant Research

- Minimally-invasive surgical tools
- Computational models of biology
- Imaging & mapping tools
- Telemedicine
- Therapy & assistive devices for:
 - spinal cord injury
 - cerebral palsy
 - stroke
 - Parkinsons
 - blindness
 - amputee
 - geriatric

NIH FY18 Budget

Total = \$37.1 B



NIMHD

Getting Started with NIH

Become familiar with the NIH Institute(s) that support your area of research (http://report.nih.gov)

Become familiar with the NIH Guide (http://grants.nih.gov/grants/guide/)

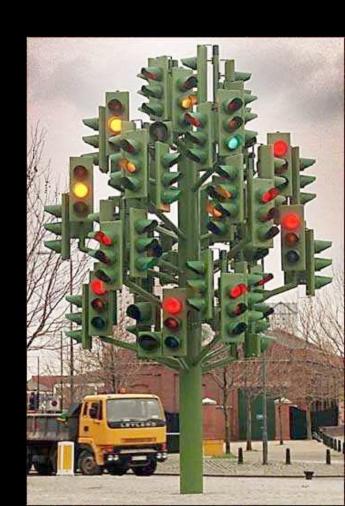
Get to know the Program Director(s) for your scientific area

Share your Specific Aims with your PD before submission

Read and understand the FOA

Participate in workshops and symposia

Participate in review of grant applications (https://public.csr.nih.gov/ReviewerResources/
BecomeAReviewer/ECR/Pages/default.aspx)



Specific Aims

- Single and most important page of an application
- Introductory paragraph,
 - Vision statement, objective, and justification for the research
 - Strong, solid, testable hypotheses,
 or discrete, finite technology development goal
 - Summarize relevance and feasibility of the approach(es)
- Succinctly state each research objective
 - Aims are independent yet essential to the overall goal
 - Avoid dense text and acronym overload
- End with impact: define success and what might be possible if successful

The impact of your work must address an unmet medical need

Funding Opportunities and "Activity Codes"

- Research project grants
 - Provide funds to conduct a research study
 - R series = R01, R03, R21
- Cooperative Agreements
 - Has substantial involvement between NIH and awardee
 - U series = U01, U18, U24, U44
- Training and career development awards
 - Provide funds to conduct research + gain training
 - F = Individual pre/post-doc fellowships
 - T = Institutional pre/post-doc fellowships
 - K = Mentored career development awards

Non-Hypothesis Driven Research

Bioengineering Research Grant (R01)

- "An application may propose design-directed, developmental, discovery-driven, or hypothesis-driven research"
- R01 funding policies (e.g. payline plus EOZ)

Bioengineering Research Project (U01)

- Path to translation
- PI(s) experienced with managing complex projects
- Not "percentiled"
- Special Emphasis Panel review

R21 Exploratory/Developmental Grant

NIBIB is not participating in the parent R21

https://www.nibib.nih.gov/research-funding/exploratorydevelopmental-grant-program-r21

NIBIB-specific PAR-18-433

Novel biomedical research approaches for which there is

no preliminary data

to demonstrate the feasibility of the proposed project,

New Investigator-only Trailblazer PAR-18-207

Research approaches for which there are

minimal or no preliminary data

Take-Home

Address an unmet medical need

Hypothesis not required

Talk with your Program Director before submitting

Understand NIH, its mission, and how it functions

Talk with me during the poster sessions

Ask for a copy of these slides

Contact me any time with questions:

Michael.Wolfson@nih.gov