

Division of Construction and Instruments

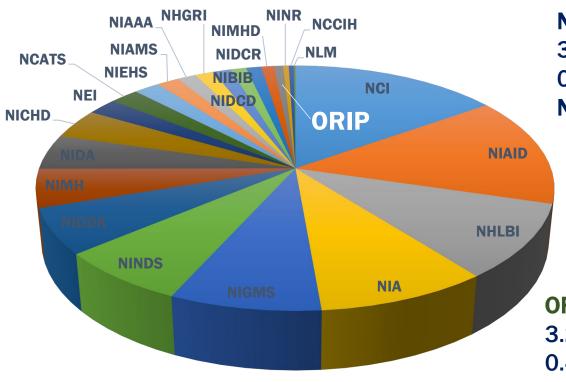






NIH's SBIR/STTR Program

The Small Business Program (SBIR/STTR) is congressionally-mandated as a set-aside activity (Pie chart shows FY2019 distribution)



NIH SBIR/STTR FY2019 BUDGET

3.2% SBIR \$1B

0.45% STTR \$141M

NIH Total \$1.14B

ORIP SBIR/STTR FY2019 BUDGET

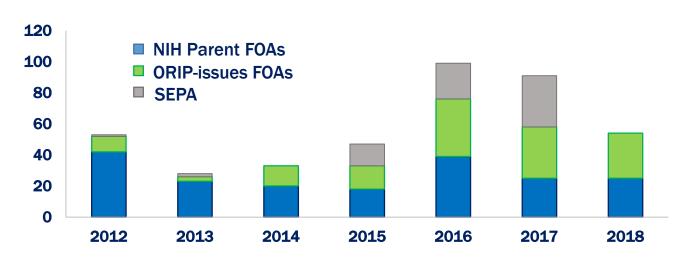
3.2% SBIR \$6.62M

0.45% STTR \$0.93M

ORIP Total \$7.55M



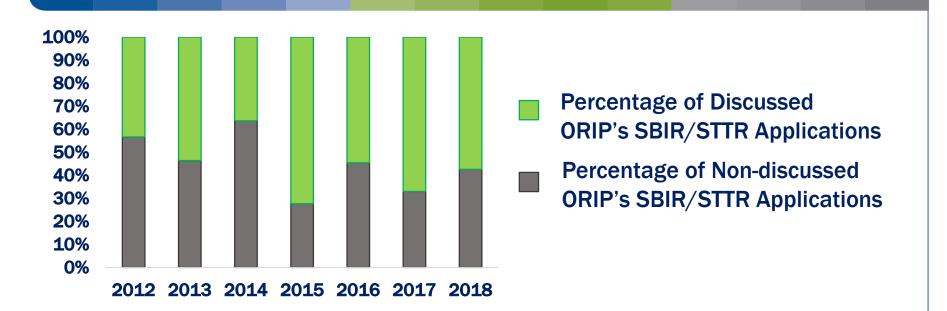
ORIP's SBIR/STTR Program



- The numbers of SBIR/STTR applications received by ORIP in FYs2012-2018; different programs are indicated by different colors
 - **★ SEPA** was transferred to NIGMS in 2018
- ORIP attributes the increase in received application to outreach and issuing own FOAs



ORIP's SBIR/STTR Program



- Typically the top 50% of NIH applications are discussed by study sections
- SBIR/STTR applications submitted to ORIP are discussed at higher than 50% rates; indicating their "better than average" merit



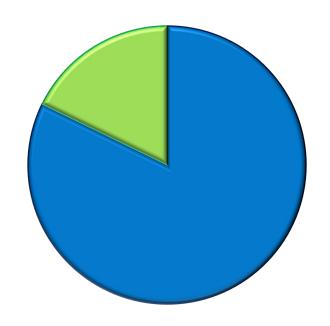
ORIP's "Tools and Devices" SBIR/STTR FOAs

- To support innovative research projects from Small Businesses to develop <u>novel tools and devices</u> to:
 - **★ Improve handling of laboratory animals**
 - **★** Ease the management of animal facilities
 - **★** Enhance experiments which use animal models
 - **★** Benefit welfare and care of research animals
 - ★ Better monitor and assess environmental conditions of animal research facilities to improve robustness of experiments



ORIP's "Tools and Devices" SBIR/STTR FOAs

- In FYs 2016-2019:
 - **★ STTR: R41/R42 (PAR-15-185):**
 - 9 applications submitted
 - 2 grants funded
 - ★ SBIR: R43/R44 (PAR-15-186):
 - 36 applications submitted
 - 6 grants funded



- PAR15-185/186 Non-funded Applications
- PAR15-185/186 Awards (18% success rate)



Concept Clearance

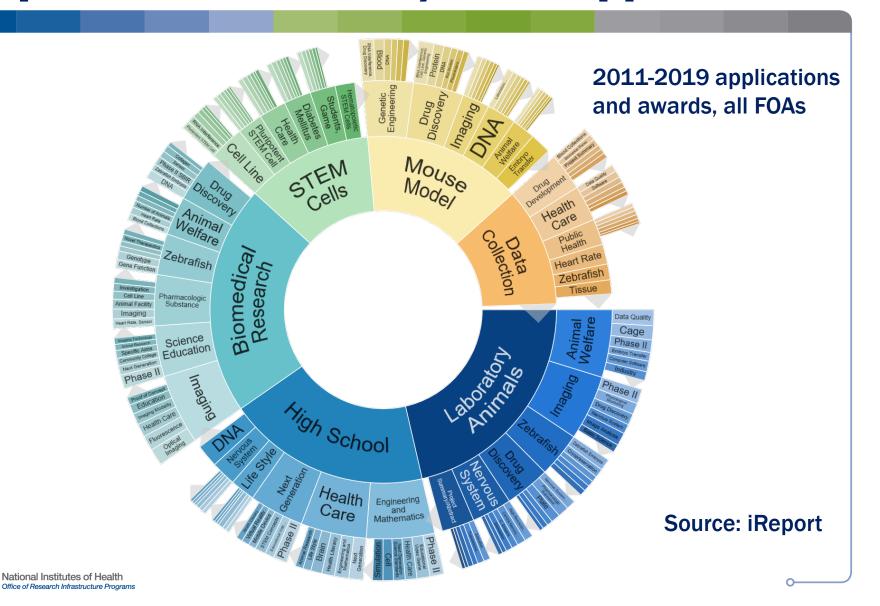
 Continue support for the SBIR/STTR Program that targets the development of novel tools and devices for animal care research facilities and to support care of animal models

Appendix

- Topics of ORIP's SBIR/STTR applications
- Examples of PAR15-185/186 SBIR/STTR award



Topics in ORIP's SBIR/STTR Applications



Examples: PAR15-185/186-funded grants

- Integrated photoacoustic and fluorescence imaging system for anatomical, functional, and molecular characterization of murine models (R43 OD023029-01, Photosound Technologies, Inc.)
- System for providing an interface for interacting with an animal (R43 OD023231-01A1, Neurotargeting Systems)
- A circular array desktop ultrasound tomography system for cross-sectional imaging of small animals (R43 OD024893-01, Sonamed Technologies, LLC)
- Piezoelectric Ring Mounted Oscillated Syringe System for Lower Distress, Lower Force, Laboratory Animal Vascular Access and Injection to Improve Data Quality and Laboratory Animal Welfare (R44 OD023024-01, Actuated Medical, Inc.)
- A Rodent Physiologic Analysis and Recording System (R44 OD024965-01A1, Barron Associates, Inc.)

