Extramural Funding Activities at NIH related to SSIB

Christopher J. Lynch, Ph.D.
Executive Secretary, NIH Nutrition Research Task Force
Director, Office of Nutrition Research
Chief, Nutrition Research Branch, DDN
NIDDK, NIH
Outline

• Introducing Office of Nutrition Research
• Current FOAs and Initiatives related to SSIB
  – R grants
  – U grants and SBIR
  – SPARC
• Forward Looking Opportunities
  – Nutrition Research Strategic Plan
NIH Initiatives Related to Ingestive Behavior, Research Projects
NIH Initiatives Related to Ingestive Behavior-Research Projects

- **Understanding Factors in Infancy and Early Childhood (Birth to 24 months) That Influence Obesity Development** *(R01: PA-16-169)*  
  Methodological research gaps and/or characterize infant and early childhood phenotypes that may increase or mitigate risk for obesity.

- **Healthy Habits: Timing for Developing Sustainable Healthy Behaviors in Children and Adolescents** *(R01: PA-14-177, R21: PA-14-176)*  
  Innovative research to identify mechanisms of influence and/or promote positive sustainable health behavior(s) in children and youth (birth to age 2).

- **Ancillary Studies to Identify Behavioral and/or Psychological Phenotypes Contributing to Obesity** *(R01: PAR-16-304)*  
  Supports the addition of measures of psychological and/or behavioral constructs or weight-related variables to existing or new research studies in humans.
NIH Initiatives Related to Ingestive Behavior-Research Projects

• Research on the Mechanisms and/or Behavioral Outcomes of Multisensory Processing (R01: PA-15-347). Elucidate the mechanisms and/or behavioral outcomes of multisensory processing, the integration or processing of at least two distinct types of sensory input as defined by distinct receptor-type transduction, neural pathways and cognate perceptual quality.

• Systems Science and Health in the Behavioral and Social Sciences (R01: PAR-15-048, R21: PAR-15-047). Applied and/or basic (including methodological and measurement development), have a human behavioral and/or social science focus, and employ methodologies suited to addressing the complexity inherent in behavioral and social phenomena, referred to as systems science methodologies.
NIH Initiatives Related to Ingestive Behavior-Research Projects

• Methodology and Measurement in the Behavioral and Social Sciences (R01: PAR-16-260, R21: PAR-16-261). Aimed at improving and developing methodology in the behavioral and social sciences through innovations in research design, measurement, data collection and data analysis techniques.

• Metabolic Contributions to the Neurocognitive Complications of Diabetes: Ancillary Studies (R01: PAR-16-333). Human studies to elucidate the etiology and pathogenesis of the increased risk for neurocognitive impairment associated with type 2 diabetes.
NIH Initiatives Related to Ingestive Behavior, SBIR and Cooperative Agreements
SBIR and Cooperative Agreements

• Lab to Marketplace: Tools for Biomedical and Behavioral Research (R43/R44: PA-15-052). Encourages the translation of technologies for biomedical or behavioral research from academic and other non-small business research sectors to the marketplace.

• Lab to Marketplace: Tools for Brain and Behavioral Research (R43/R44: PA-14-250). Encourages the translation of technologies for brain or behavioral research from academic and other non-small business research sectors to the marketplace.
SBIR and Cooperative Agreements

• Intensive Longitudinal Analysis of Health Behaviors: Leveraging New Technologies to Understand Health Behaviors ([U01: RFA-OD-17-004]). Research projects that seek to explain underlying mechanisms and predict health behaviors within individuals over time utilizing intensive longitudinal, within-person protocols that leverage recent advances in mobile and wireless sensor technologies and big data analytics.

• Predictive Multiscale Models for Biomedical, Biological, Behavioral, Environmental and Clinical Research ([U01: PAR-15-085]). Interagency funding opportunity to support the development of multiscale models to accelerate biological, biomedical, behavioral, environmental and clinical research
SPARC - Stimulating Peripheral Activity to Relieve Conditions

**Opportunity:** Neuromodulation of organ function holds promise in treating many diseases.

**Challenge:** The mechanisms of action for neuromodulation therapies remain poorly understood.

**Program Goals:** Provide a scientific foundation that enables better understanding of the neural control of organ function, spurring development of the next-generation of therapeutic closed-loop neuromodulation devices.

~$238 million investment over 7 years
SPARC2 – Funding Opportunities
https://commonfund.nih.gov/sparc/grants

Technologies to Understand the Control of Organ Function by the Peripheral Nervous System

- **RFA-RM-17-009** (OT1, a.k.a. ”pre-application”)
- **RFA-RM-17-010** (OT2, a.k.a. “application”)

Quarterly OT1 receipt dates – next date is August 1, 2017

Applicants whose OT1 pre-applications are found to be meritorious and programmatically relevant will be invited to submit a full OT2 application

OT2 applications are invitation-only
Application Process

https://commonfund.nih.gov/sparc/OtherTransac

**Discuss**
- Optional, but encouraged discussion with SPARC program staff

**OT1 application**
- Email six-page OT1 application by receipt date in RFA-RM-17-009
- Must propose to address a Priority listed for this receipt date

**Feedback**
- We will provide feedback on your OT1 application
- Some applications will be invited to submit an OT2 application

**Discuss**
- Required discussion of feedback with SPARC program staff

**OT2 app**
- Invitation specifies deadline and other requirements
- Follow RFA-RM-17-010 to submit OT2 application to Grants.gov

**Negotiate**
- SPARC will negotiate budget, benchmarks, and deliverables with selected applicants

**Award**
- NIH will award an Other Transaction Award (OT2) after successful negotiation