Welcome to OppNet:
Three years of trans-NIH research in the basic behavioral and social sciences

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OppNet: Mission, goals

• To foster research initiatives on **basic social processes and mechanisms** of behavior that relate across . . .
  ✓ public health challenges
  ✓ specific prevention and treatment contexts
  ✓ the missions of individual NIH ICs

• To expand NIH’s funding of b-BSSR with additional investments that complement the agency’s entire extramural research portfolio.

• **All 24 NIH ICs** that fund and manage extramural research and **5 NIH Director’s (DPCPSI) offices** co-fund and co-manage OppNet.
2010 RFI: Major themes
RFI January - February 2010. 358 responses. Frequent themes:

- Capacity building
- Cognition and emotion
- Cultural aspects of health
- Decision making
- Development: Time, exposure, and change
- Gene by environment
- Health behaviors

• Stress
• Social environment
• Sleep, circadian rhythms
• Social and personality psychology
• Social gradients, social stratification, and health inequities
b-BSSR . . .

furthers our understanding of fundamental mechanisms and patterns of behavioral and social functioning,

relevant to the Nation’s health and well-being,

and as they interact with each other, with biology, and the environment.

Three b-BSSR categories:
1. Behavioral and social processes

- Attention, learning, and memory
- Emotion and motivation
- Family and other group processes
- Ingestive, sexual, and aggressive behaviors
- Language development

- Population dynamics
- Sensation and perception
- Social influences, social cognition
- Social networks
- Sociocultural and environmental processes
- Vulnerability and resilience
2. Biopsychosocial research

AKA biobehavioral, biosocial research

- Behavior genetics
- Biosocial surveys
- Neurosciences
  - Behavioral, cognitive, social, affective, and economic
- Psychoneuroimmunology
- Psychophysiology
- Sociogenomics

Reciprocal and multilevel relationships
3. Methodology and measurement

- Data analysis
- Data collection
- Development
  - data resources
  - infrastructure
  - research tools
- Measurement
- Modeling
- Research design
- Theory development and testing
**Applied research**

- Influences on health outcomes, risks, or protective factors
- Impact of illness or risk for illness on behavioral or social functioning
- Tests efficacy of theoretically-based interventions

**Basic research**

- Human or model animal functioning at levels ranging from individuals to populations.
- Interactions between these levels.
- Influence of environmental factors on functioning
- Interactions between/ among biological, behavioral, social factors.
Symposium series: HMAR in b-BSSR

All available on videocast:
OppNet MA grants, 2010-2011

- ZOLOTUKHIN, Sergei, *A novel class of orally-applied inhibitors of aggressive behavior*
- YIN, Henry, *Neural mechanisms of habit formation and maintenance*
- WALLEN, Kim, *Amygdala: Sex differences in behavior, cognition, and neuroendocrine development*
- VOLSKY, David, *Markers of HIV brain disease under HAART: Validation in a mouse model*
- TONELLI, Leonardo, *Neuroimmune mechanisms of risk & resilience to maladaptive stress responses*
- PAGE, Gayle G., *Sleep in rats: From conceptualization to measurement, analysis and interpretation*
- KEATING, Daniel, *Epigenetic mechanisms of social disparities in health and development*
- KUZHIKANDATHIL, Eldo, *Regulation of D1 dopamine receptor expression by ncRNA in cocaine addiction*
- GAO, Xiao-Bing, *The role of hypocretin neurons in cocaine reinforcement*
- DE LECEA, Luis, *Hypocretin and drug addiction*
- DESPLAN, Claude, *Mapping the optic lobes for color vision*
- DYMECKI, Susan, *Developmental genetics of serotonin neuron subtypes in brain reward circuits*
- EISCH, Amelia, *Opiates and adult neurogenesis*
- COE, Christopher, *Maternal flu infection and brain development in primates*
OppNet contacts

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