NIH NATIONAL CANCER INSTITUTE

# Basic Biobehavioral and Psychological Sciences Branch (BBPSB)

cancercontrol.cancer.gov/brp/bbpsb

## About BBPSB

### Mission

BBPSB cultivates an extramural portfolio that generates basic behavioral, biobehavioral, and psychological science knowledge with translational relevance to cancer prevention and control.

### Highlighted Research Domains and Funding Opportunities

#### Multimorbidity

Identifying Innovative Mechanisms or Interventions that Target Multimorbidity and its Consequences

**PAR-20-180** *(R01 Clinical Trial Optional)*

Advancing Research to Develop Improved Measures and Methods for Understanding Multimorbidity

**PAR-20-179** *(R01 Clinical Trial Optional)*

#### Integrative Scientific Processes

Mid-Career Enhancement Awards to Integrate Basic Behavioral, Biomedical, and/or Social Scientific Processes

**PAR-20-226** *(K18 Basic Experimental Studies with Humans Required)*
**PAR-20-211** *(K18 No Independent Clinical Trials)*

#### Social Connectedness and Isolation

Biopsychosocial Factors of Social Connectedness and Isolation on Health, Wellbeing, Illness, and Recovery

**PAR-19-373** *(R01 Clinical Trials Not Allowed)*
**PAR-19-384** *(R01 Basic Experimental Studies with Humans Required)*

#### Affective Science

Fundamental Mechanisms of Affective and Decisional Processes in Cancer Control

**PAR-20-034** *(R01 Clinical Trial Optional)*

#### Cancer-Related Cognitive Impairment

Leveraging Cognitive Neuroscience to Improve Assessment of Cancer Treatment-Related Cognitive Impairment

**PAR-19-340** *(R01 Clinical Trial Optional)*
**PAR-19-339** *(R21 Clinical Trial Optional)*

#### Neural Regulation

Neural Regulation of Cancer

**PAR-19-353** *(R01 Clinical Trial Not Allowed)*
**PAR-19-354** *(R21 Clinical Trial Not Allowed)*

#### Medication Adherence

Oral Anticancer Agents: Utilization, Adherence, and Health Care Delivery

**NOT-CA-20-026**

### Organizational Structure

- **NCI** National Cancer Institute
- **DCCPS** Division of Cancer Control and Population Sciences
- **BRP** Behavioral Research Program
- **BBPSB** **Basic Biobehavioral and Psychological Sciences Branch**

#### Perception and Cognition

Perception and Cognition Research to Inform Cancer Image Interpretation

**PAR-19-387** *(R01 Clinical Trial Optional)*
**PAR-19-389** *(R21 Clinical Trial Optional)*

#### Modular R01s

Modular R01s in Cancer Control and Population Sciences

**PAR-18-869** *(R01 Clinical Trial Optional)*

This NCI funding opportunity will support projects in the population sciences that lend themselves to a shorter time span and reduced budget.

Find a complete list of BRP funding opportunities at cancercontrol.cancer.gov/brpfunding.
View sample grant applications at cancercontrol.cancer.gov/samplegrants.

## Aging Trajectories in Cancer Survivors

BBPSB is interested in better understanding the effects of cancer and its treatment on well-being and aging trajectories during survivorship. Areas of research emphasis include:

- Identification of aging phenotypes in cancer survivors, and mechanisms underlying them
- Development of methods and measurement approaches to identify aging trajectories
- Implications of aging-related biological, behavioral, and psychosocial changes for cancer risk and outcomes
- Inclusion of older adults in studies of survivorship

**Webinar Series**

Learn more about BBPSB interests at https://cancercontrol.cancer.gov/brp/bbpsb/aging-trajectories.html and about our webinar series on cancer and aging at https://cancercontrol.cancer.gov/brpwebinars.

### Cancer and Accelerated Aging: Advancing Research for Healthier Survivors

Cancer & Accelerated Aging ADVANCING RESEARCH FOR HEALTHIER SURVIVORS

This initiative aims to identify research gaps and promising approaches to improve our ability to understand, predict, and mitigate aging consequences of cancer and treatment.

**Relevant Publications**

Guida JL, Ahles TA, Belsky D, et al. Measuring aging and identifying aging phenotypes in cancer survivors. J Natl Cancer Inst., 2019. https://www.ncbi.nlm.nih.gov/pubmed/31321426.

Guida JL, Agurs-Collins T, Ahles TA, et al. Strategies to prevent or remediate cancer and treatment-related aging. J Natl Cancer Inst., 2020. https://pubmed.ncbi.nlm.nih.gov/32348501/.

## Pop-Up Perception Labs

Studying trained professionals, such as radiologists, is key to improving cancer detection and diagnosis through perceptual and cognitive research on cancer image perception. However, limited access to these professionals makes this research difficult. To address this barrier, NCI hosts pop-up labs at scientific meetings where these professionals are present. These labs provide a shared facility for investigators to recruit and test radiologist observers, with support from the meeting organizers. Past labs have been held at the Radiological Society of North America (RSNA) annual meeting; learn more at https://cancercontrol.cancer.gov/brp/bbpsb/rsna-perception-laboratory.html.

**Relevant Publication**

Toomey RJ, McEntee MF, Rainford LA. The pop-up research centre–Challenges and opportunities. Radiography. 2019. https://www.ncbi.nlm.nih.gov/pubmed/31481183.

## BBPSB Team


**Paige Green, Ph.D., M.P.H., F.A.B.M.R.**
Branch Chief
paige.green@nih.gov

**Donna Hopkins, B.A.**
Program Specialist
donna.hopkins@nih.gov

**Rebecca Ferrer, Ph.D.**
Program Director
rebecca.ferrer@nih.gov

**Todd Horowitz, Ph.D.**
Program Director
todd.horowitz@nih.gov

**Wendy Nelson, Ph.D., M.P.H.**
Program Director
wendy.nelson@nih.gov

Tanya Agurs-Collins, Ph.D., R.D. has a secondary appointment in the branch.


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