

- **TITLE:** Provocative Questions Requests for Applications

SPONSOR: National Cancer Institute

The National Cancer Institute (NCI) is looking for bold new approaches to answer 24 perplexing scientific questions identified by the community. The Provocative Questions Initiative has assembled a list of important questions to stimulate the NCI's research communities to use laboratory, clinical, and population sciences in especially effective and imaginative ways to answer the questions. Researchers are invited to apply for R01 and R21 grants in four thematic areas:

- Cancer Prevention and Risk
- Mechanisms of Tumor Development or Recurrence
- Tumor Detection, Diagnosis, and Prognosis
- Cancer Therapy and Outcomes

Submit a Letter of Intent by May 20, 2013.

Applications are due June 20, 2013.

provocativequestions.nci.nih.gov.

- **TITLE:** Enhancing Tumoricidal Activity of Natural Killer (NK) Cells by Dietary Components for Cancer Prevention (R21) & (R01)

SPONSOR: National Cancer Institute, National Center for Complementary and Alternative Medicine

Specifically, this FOA encourages studies that can establish the physiological significance of dietary components in modulating the tumoricidal activity of NK cells. Research projects that are appropriate to this FOA should focus on defining the minimum quantity and duration of exposure to specific dietary components to modulate tumoricidal activity of NK cells for cancer prevention and the underlying mechanism(s) accounting for this response. Appropriate research projects are encouraged to include animal and/or human investigations. In vitro models can be used only to support in vivo studies, and therefore, should not constitute the primary focus of the application.

<http://grants.nih.gov/grants/guide/pa-files/PA-11-161.html>

<http://grants.nih.gov/grants/guide/pa-files/PA-11-160.html>

- **TITLE:** Role of the Microflora in the Etiology of Gastro-Intestinal Cancer (R01)

SPONSOR: National Cancer Institute, National Institute on Alcohol Abuse and Alcoholism

Synopsis: This Funding Opportunity Announcement (FOA) encourages innovative multidisciplinary research projects that will advance our mechanistic understanding of microflora influences on Gastro-Intestinal (GI) carcinogenesis. This FOA seeks applications that leverage and integrate information from large, meta-omic data sets to guide studies that identify critical microbial activities that can be mechanistically linked to GI carcinogenesis. Applicants are encouraged to take advantage of existing methodologies and technologies developed by the microbiome and integrative cancer biology communities as well as other

relevant technology sources, and to apply existing or new sophisticated data analysis, integration, and modeling methodologies to inform and guide hypothesis driven mechanistic studies on the role of the GI microflora during carcinogenesis. The common goal of the projects should be to understand how the resident microbes interact with the host and the host environment to prevent or enhance carcinogenesis in the GI tract.

<http://grants.nih.gov/grants/guide/pa-files/PAR-12-140.html>