

# Cancer Epidemiology Cohorts: Research Opportunities for Established Studies

PAR Concept Proposal, BSA Joanne Elena (DCCPS/EGRP) December 8, 2021

# **PURPOSE**

- Provide continued support for established cohort studies that address novel, innovative research questions across the cancer control continuum
  - Established cohort studies- defined as studies that have achieved their initial planned recruitment goal
- This PAR will replace the expiring PAR 20-294 (Cohort Infrastructure for Cancer Epidemiology Cohorts)
  - Those currently funded by PAR 20-294 are not eligible to receive funding until after the expiration of their current grant





# NCAB WORKING GROUP ON POPULATION SCIENCE RECOMMENDATIONS

- NCI should continue to providing sufficient infrastructure support for cohorts to conduct or facilitate research that addresses critical scientific gaps
- Peer-review process should include review of justification for continued follow-up of the cohort including scientific yield
- Cohorts should consider current and emerging gaps in research and comprise appropriate populations
  - Survivor cohorts should address current and emerging research gaps by cancer type and/or treatment



#### **COHORT STUDIES ADVANCE KNOWLEDGE**

- Prospective cohort studies have identified environmental, behavioral, and genomic factors associated with cancer incidence, morbidity, and mortality
- Informed interventions and guidelines to prevent or mitigate the effects of cancer and its treatment
- Rich resource of data and biospecimen collections from diverse populations
  - Great potential for innovative research into cancer risks and outcomes following cancer diagnosis

### **RESEARCH-DRIVEN COHORT SUPPORT**

- Leverages the significant investment made in established cohort studies to address innovative questions
- Ensures use of appropriate methods and data collection
- Continues to advance scientific knowledge



#### **GUIDELINES FOR APPLICANTS**

- Must address key scientific gaps
- Aims must include hypothesis-based research questions
  - Core infrastructure support is expected
- Must justify study methods (e.g., data collection, proposed assays) based on the research in aims
- Priority given to novel research that
  - Includes understudied populations
  - Directly informs future interventions, guidelines, and/or clinical management strategies

# **RESPONSIVENESS CRITERIA:**

Non-responsive and will not be reviewed, including those that: . Initiate new cohorts

- . Do not include hypothesis-based research based on data from an established longitudinal cohort study in the specific aims
- . Have data and/or resource sharing plans that do not comply with NIH policy and follow the FAIR (Findability, Accessibility, Interoperability, Reusability) principles



### **MECHANISM AND BUDGET**

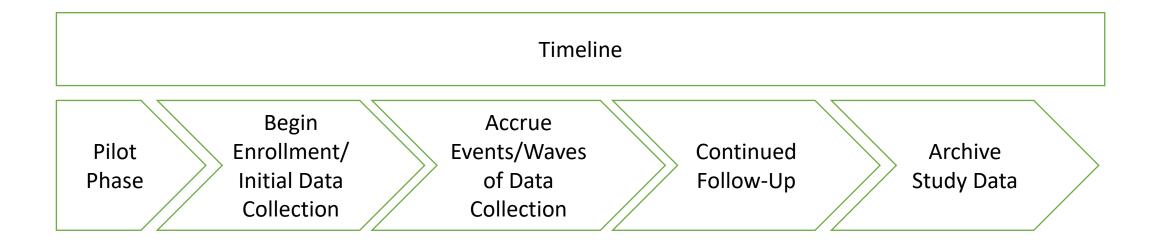
- PAR: U01
- Two receipt dates per year for three years
- Applicants should propose up to 5 years of funding
- Budget: No specific cap
  - Required pre-submission meeting for budgets above ≥\$700k direct costs/year
  - Awaiting Receipt of Application for above  $\geq$ \$500k direct costs per year
- A program announcement with review (PAR) by a special emphasis panel is requested
  - Recommended review with *Cancer Epidemiology Cohorts: Building the next generation of research cohorts*.

## **PORTFOLIO ANALYSIS**

- 31 cancer epidemiology cohorts in the current DCCPS portfolio
  - 1.1 million participants
  - More women (76%) than men
  - Racial/ethnic distribution: 66% White, 17% Black, 7% Asian, and 6% Hispanic
  - Many of the longstanding cohorts have older populations (>65 years old)
- Distribution roughly reflects the proportion of White, Black, and Asian Americans, the number of Hispanics included in these cohorts is considerably less than current US population (18% in the 2020 Census)



# **"TYPICAL" TIMELINE OF CANCER EPI COHORTS**



Comments from our Reviewers-Drs. Robison (chair), Bondy, and Rathmell

- Additional clarification requested for:
  - How/when transition would take place for cohorts currently funded through *PAR 20-294*
  - Non-responsive criteria
  - Desired breadth of portfolio
    - Diversity and innovation are important. Will consider participant age, cancer site, race/ethnicity, and urban/rural among other factors.

Thank you for your time and effort in review

# Thank you

