**Section: Contact Information**

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**Section: Project Requirements and Description**

**Group: Requirements to submit AOI**

A comprehensive review of previously published data has been completed. : Yes  
The specific aims are clear and focused. : Yes  
The investigator has appropriate experience and expertise to develop the concept proposal; if not, has identified a mentor or senior co-investigator. : Yes  
The investigator agrees to develop an initial draft of the concept proposal within 6 weeks of approval of the AOI and to finalize the concept proposal within 6 months. : Yes

Project Title: Exome Sequencing to Discover Genetic Variants that Predispose Childhood Cancer Survivors to the Development of Subsequent Neoplasms

Planned research population (eligibility criteria):

Eligible individuals from the CCSS population must:
- be of European ancestry (either >=80%CEU based on the GWAS or self-reported non-Hispanic white if the individual was not previously genotyped).
- not have a history of allogeneic bone marrow transplantation.
- have available DNA.

Proposed specific aims:
1) Identify genetic variants associated with the development of subsequent neoplasms among childhood cancer survivors.  
2) Identify genetic variants associated with the risk of childhood cancer.  
3) Develop a resource of genetic data that can be used by investigators to conduct secondary analyses of more specific hypotheses related to the aims listed above or to conduct analyses of other adverse outcomes among childhood cancer survivors.

Will the project require non-CCSS funding to complete? : Yes
If yes, what would be the anticipated source(s) and timeline(s) for securing funding?:

We are seeking Intramural NIH funds, with anticipation of availability of funds in FY15 and FY16.

**Group: Does this project require contact of CCSS study subjects for:**

- Additional self-reported information: **No**
- Biological samples: **No**
- Medical record data: **No**

If yes to any of the above, please briefly describe: **The study will be limited to existing data and samples.**

**Group: What CCSS Working Group(s) would likely be involved? (Check all that apply)**

- Second Malignancy: **Secondary**
- Chronic Disease:
- Psychology / Neuropsychology:
- Genetics: **Primary**
- Cancer Control:
- Epidemiology / Biostatistics: **Secondary**

**Section: Outcomes or Correlative Factors**

- Late mortality: **Correlative Factors**
- Second Malignancy: **Primary**

**Group: Health Behaviors**

- Tobacco: **Correlative Factors**
- Alcohol: **Correlative Factors**
- Physical activity: **Correlative Factors**
- Medical screening:
- Other:
- If other, please specify:

**Group: Psychosocial**

- Insurance:
- Marriage:
- Education:
- Employment:
- Other:
- If other, please specify:

**Group: Medical Conditions**

- Hearing/Vision/Speech:
- Hormonal systems: **Correlative Factors**
- Heart and vascular:
Respiratory:
Digestive:
Surgical procedures:
Brain and nervous system:
Other:
If other, please specify:

**Group: Medications**
Describe medications:

**Group: Psychologic/Quality of Life**
BSI-18:
SF-36:
CCSS-NCQ:
PTS:
PTG:
Other:
If other, please specify:

**Group: Other**
Pregnancy and offspring: Correlative Factors
Family history: Correlative Factors
Chronic conditions (CTCAE v3):
Health status:

**Group: Demographic**
Age: Correlative Factors
Race: Correlative Factors
Sex: Correlative Factors
Other:
If other, please specify:

**Group: Cancer treatment**
Chemotherapy: Correlative Factors
Radiation therapy: Correlative Factors
Surgery: Correlative Factors

**Section: Anticipated Sources of Statistical Support**
CCSS Statistical Center:
Local institutional statistician: Yes
If local, please provide the name(s) and contact information of the statistician(s) to be involved:

Joshua Sampson (sampsonjn@mail.nih.gov) - Division of Cancer Epidemiology and Genetics, National Cancer Institute
Will this project utilize CCSS biologic samples? : Yes
If yes, which of the following? : Buccal cell DNA, Peripheral blood
If other, please explain :

**Section: Other General Comments**

Other General Comments :