**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: Whole-genome sequencing analysis of germline mutations in DNA repair genes  
Planned research population (eligibility criteria) :  
2998 samples from CCSS expansion cohort that were recently sequenced at HudsonAlpha (funded by St. Jude)  
Proposed specific aims :  
1) Characterize the pathogenic/likely pathogenic germline mutations (SNV, indels, copy number and structure variants) using whole-genome sequencing data  
2) Assess gene-cancer associations for the primary diagnoses  
3) Assess gene-cancer associations and gene-treatment interactions for risk of subsequent neoplasms  
Will the project require non-CCSS funding to complete? : No  
If yes, what would be the anticipated source(s) and timeline(s) for securing funding? :

**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. : 

**Group: What CCSS Working Group(s) would likely be involved? (Check all that apply)**  
Second Malignancy : Secondary  
Chronic Disease :  
Psychology / Neuropsychology :
Section: Outcomes or Correlative Factors

Late mortality:
Second Malignancy: Primary

**Group: Health Behaviors**
- Tobacco:
- Alcohol:
- Physical activity:
- 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:
- 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:
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:

**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.:
Yutaka Yasui at St. Jude
Will this project utilize CCSS biologic samples?: No
If yes, which of the following?:
If other, please explain:

**Section: Other General Comments**
Other General Comments:
I agree to share this information with St. Jude: Yes