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: Investigating Genetic Alterations in Radiation-induced Secondary Malignancies

Planned research population (eligibility criteria): Pediatric cancer survivors developing radiation-induced meningiomas

Proposed specific aims:
Aim 1. Identify germline and somatic genetic alterations associated with radiation-related subsequent meningiomas in childhood cancer survivors.

Aim 2. Develop an in vivo model of radiation-related tumorigenesis.

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? : I'm applying for R01 funding from NIH/NCI, with earliest start date of April 2021.

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 : 
Genetics : Primary
Cancer Control : 

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: Secondary
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:
Chronic conditions (CTCAE v3):
Health status:

**Group: Demographic**
Age: Primary
Race: Primary
Sex: Primary
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.:
**Collaborator Dr. Smita Bhatia (sbhatia@peds.uab.edu)**
University of Alabama, Birmingham
Will this project utilize CCSS biologic samples?: Yes
If yes, which of the following?: Buccal cell DNA, Second malignancy pathology samples
If other, please explain:

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