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**Project Title** Evaluation of SNPs in the EWS Breakpoint Region in People with and without Ewing Sarcoma

**Planned research population (eligibility criteria)** Case Group: Patients with Ewing sarcoma from the CCSS and COG biology banks with buccal cell DNA material available Control Group: Patients with Wilms tumor from the CCSS with buccal cell DNA material available Sibling Group: Siblings of patients with Ewing sarcoma from CCSS with buccal cell DNA material available

**Proposed specific aims** Primary Aim: To determine if the frequency of single nucleotide polymorphisms (SNPs) in the EWS breakpoint region differs between people with and without Ewing sarcoma Secondary Aims: 1. To determine if the frequency of SNPs in the EWS breakpoint region differs between patients with Ewing sarcoma who survived 5 years from initial diagnosis and patients with Ewing sarcoma who did not survive 5 years from initial diagnosis 2. To determine if the frequency of SNPs in the EWS breakpoint region differs between patients with Ewing sarcoma and siblings of patients with Ewing sarcoma

**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?**

Discretionary funds are available to the principal investigator to complete the proposed study.

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Does this project require contact of CCSS study subjects for . . .

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**Additional self-reported information** No

**Biological Samples** No

**Medical record data** No

**If yes to any of the above, please briefly describe.**

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

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**Second Malignancy**

Primary - No

Secondary - No

**Chronic Disease**

Primary - No

Secondary - No

**Reproductive**

Primary - No

Secondary - No

**Neurologic**

Primary - No

Secondary - No

**Psychology / Neuropsychology**

Primary - No

Secondary - No

**Genetics**

Primary - Yes                      Secondary - No

**Cancer Control**

Primary - No                      Secondary - No

**Epidemiology / Biostatistics**

Primary - No                      Secondary - No

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To describe the anticipated scope of the study, please indicate the specific CCSS data to be included as outcome (primary or secondary) or correlative factors. (Check all that apply)

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**Late mortality**

Primary - No                      Secondary - No                      Correlative Factors - No

**Second Malignancy**

Primary - No                      Secondary - No                      Correlative Factors - No

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Health Behaviors

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**Tobacco**

Primary - No                      Secondary - No                      Correlative Factors - No

**Alcohol**

Primary - No                      Secondary - No                      Correlative Factors - No

**Physical activity**

Primary - No                      Secondary - No                      Correlative Factors - No

**Medical screening**

Primary - No                      Secondary - No                      Correlative Factors - No

**Other**

Primary - No                      Secondary - No                      Correlative Factors - No

**If other, please specify**

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Psychosocial

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**Insurance**

Primary - No                      Secondary - No                      Correlative Factors - No

**Marriage**

Primary - No                      Secondary - No                      Correlative Factors - No

**Education**

Primary - No                      Secondary - No                      Correlative Factors - No

**Employment**

Primary - No                      Secondary - No                      Correlative Factors - No

**Other**

Primary - No                      Secondary - No                      Correlative Factors - No

**If other, please specify**

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Medical conditions

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**Hearing/Vision/Speech**

Primary - No                      Secondary - No                      Correlative Factors - No

**Hormonal systems**

Primary - No                      Secondary - No                      Correlative Factors - No

**Heart and vascular**

Primary - No                      Secondary - No                      Correlative Factors - No

**Respiratory**

Primary - No                      Secondary - No                      Correlative Factors - No

**Digestive**

Primary - No                      Secondary - No                      Correlative Factors - No

**Surgical procedures**

Primary - No                      Secondary - No                      Correlative Factors - No

**Brain and nervous system**

Primary - No                      Secondary - No                      Correlative Factors - No

**Other**

Primary - No                      Secondary - No                      Correlative Factors - No

**If other, please specify**

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Medications

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**Describe medications**

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**Pregnancy and offspring**

Primary - No                      Secondary - No                      Correlative Factors - No

**Family History**

Primary - No                      Secondary - No                      Correlative Factors - No

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Psychologic/Quality of Life

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**BSI-18**

Primary - No                      Secondary - No                      Correlative Factors - No

**SF-36**

Primary - No                      Secondary - No                      Correlative Factors - No

**CCSS-NCQ**

Primary - No                      Secondary - No                      Correlative Factors - No

**PTS**

Primary - No                      Secondary - No                      Correlative Factors - No

**PTG**

Primary - No

Secondary - No

Correlative Factors - No

**Other**

Primary - No

Secondary - No

Correlative Factors - No

**If other, please specify**

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**Chronic conditions (CTCAE v3)**

Primary - No

Secondary - No

Correlative Factors - No

**Health status**

Primary - No

Secondary - No

Correlative Factors - No

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**Demographic**

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**Age**

Primary - No

Secondary - No

Correlative Factors - No

**Race**

Primary - No

Secondary - No

Correlative Factors - No

**Sex**

Primary - No

Secondary - No

Correlative Factors - No

**Others**

Primary - No

Secondary - No

Correlative Factors - No

**If others, please specify**

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Cancer treatment

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**Chemotherapy**

Correlative Factors - No

**Radiation therapy**

Correlative Factors - No

**Surgery**

Correlative Factors - No

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**Anticipated sources of statistical support**

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**CCSS Statistical Center****Local institutional statistician** Yes**If local, please provide the name(s) and contact information of the statistician(s) to be involved.** The UCSF CTSI Bioinformatics Core will support this study.**Will this project utilize CCSS biologic samples?** Yes

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**If yes, which of the following?**

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**Buccal cell DNA** Yes  
**Peripheral blood**  
**Lymphoblastoid cell lines**  
**Second malignancy pathology samples**  
**Other requiring collection of samples**  
**If other, please explain**

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**Other general comments**

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