MEETING

SOLVING CRITICAL PROBLEMS IN CANCER CONTROL USING SPATIAL SCIENCE

A NATIONAL NCI COMPREHENSIVE CANCER CENTER MEETING

Join us for 2 days of exciting discussions about all things Spatial in Cancer Control. This meeting will describe the current state of the art, provide sneak peeks of innovative approaches and new research, and chart a course for future collaborations.

SUBMIT AN ABSTRACT 👆

Deadline: Nov 20, 2022

Meeting topics will be adapted depending on abstracts received (if your favorite topic isn't listed, let us know!)

This meeting will be **In Person**.
Most sessions will be available to view on live stream for those unable to join in person.

More details on accommodation forthcoming.

Presented by:

USC Norris Comprehensive Cancer Center
Keck Medicine of **USC**

Additional support from: **USC**Dornsife
Spatial Sciences Institute

MEETING DETAILS

WILL FEATURE BOTH INVITED PLENARY & CONCURRENT SESSIONS, WITH THE FOLLOWING HIGHLIGHTS:

- Comments and overview from NCI leadership
- "Meet the Program Officers" lunch meet-up
- Invited plenary presentations prior to detailed concurrent sessions
- Student competition (prize: Invited plenary and travel/accommodation)
- Time for networking and exploring the campus

1.1 GEOSPATIAL APPROACHES TO POPULATION-BASED CANCER CONTROL

- Using geospatial approaches in Catchment Areas
- Using mixed methods approaches in cancer control that include geospatial data
- Improving spatiotemporal resolution of cancer control data:
  - Sharing fine scale location data from population datasets (residential histories)
  - Improving historical residential data in population datasets (via linkage)

1.2 IMPROVEMENTS IN GEOSTATISTICS & GEOSTATISTICAL METHODS

- Combining area-level data for individual exposure/context.
- Leveraging "big" spatial data, open source geoanalytics and data sources
- Improvements in geovisualization and geovisual analytics for cancer control
- Improvements in geocoding approaches
- Mixtures and modeling approaches to geodata

1.3 SPATIAL APPROACHES TO CANCER CONTROL AT THE INDIVIDUAL LEVEL (PREVENTION)

- Linking personal real-time spatial data to spatiotemporal datasets
- Assessing multiple spatiotemporal exposures
- Validating personal real time spatial data

1.4 SPATIAL APPROACHES TO CANCER CONTROL AT THE INDIVIDUAL LEVEL (DIAGNOSIS & TREATMENT)

- Spatial genomics
- Spatial analysis of tumor and metastatic load location
- Spatial imaging

2.1 GEOINFORMATICS, SPATIAL UNCERTAINTY & CONFIDENTIALITY

- Improvements in confidentiality of geospatial data
- Improvements in geoinformatics, storage, dissemination and documentation
- Open source geospatial tools and how to validate/document them

2.2 COMMUNITY OUTREACH & ENGAGEMENT

- Using geospatial to connect cancer control efforts to community stakeholders and the public.

2.3 ENHANCING IMPLEMENTATION SCIENCE WITH SPATIAL APPROACHES

- Incorporating geospatial methods into implementation science
- Improving spatial data required for implementation science

2.4 TACKLING DISPARITIES WITH SPATIAL SCIENCE

- Redlining, structural racism, and the geography of population disparities
- Rural-Urban disparities in cancer control and outcomes

JANUARY 18TH – 19TH, 2023

**UNIVERSITY HOTEL & CONFERENCE CENTER
UNIVERSITY OF SOUTHERN CALIFORNIA
3540 S FIGUEROA STREET, LOS ANGELES, CA 90007**

Questions/Comments? Please contact Myles Cockburn, mylesc@usc.edu
https://uscnorris.com/SpatialScienceMeeting