

SUPERFUND RESEARCH CENTER

General Superfund Center Contact:

Louisville Superfund Center Director:

Dr. Sanjay Srivastava

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Community Engagement Contacts:

Dr. Lauren Heberle and

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CURRENT RESEARCH PROJECTS

Project 1: *Cardiometabolic Injury due to VOCs*

WHAT KIND OF HARM DO VOCs HAVE ON YOUR HEART AND CARDIOVASCULAR SYSTEM?

Contact: Craig McClain, Rachel Keith, Matthew Cave, Jessica Nystoriak 502/852-4236 and greenheart@louisville.edu to reach the clinical studies team

Project 2: *Molecular and Cellular Mechanisms of Cardiometabolic Toxicity of VOCs*

HOW DOES HARM CAUSED BY VOCs HAPPEN AT THE CELLULAR AND MOLECULAR LEVELS?

Contact: Sanjay Srivastava and Daniel Conklin sanjay.srivastava@louisville.edu or d0conk01@exchange.louisville.edu 502/852-5836

Project 3: *Development of Novel Ultrasensitive Devices for the Measurement of VOCs*

HOW CAN VOCs BE MEASURED MORE ACCURATELY?

Contact: Michael Nantz and Xiao-An Fu mhnant01@exchange.louisville.edu 502/852-8069 or x0fu0002@exchange.louisville.edu 502/852-6349

Project 4: *Characterizing Urban and Finer Scale Spatial Variability for Select VOC Compounds*

WHERE DO WE FIND VOCs IN OUR COMMUNITIES? HOW DO WE MEASURE AND MAP OUTDOOR VOCs SO THAT WE CAN LESSEN THEIR IMPACTS?

Contact: Jay Turner jrturmer@wustl.edu

ADDITIONAL LOUISVILLE SUPERFUND RESEARCH CENTER SUPPORT STRUCTURES

Administrative Core: Sanjay Srivastava, Center Director
COORDINATES LOUISVILLE SUPERFUND CENTER ACTIVITIES

Research Translation Core: Aruni Bhatnagar, Joy Hart, Kandi Walker, and Ted Smith
COMMUNICATES WITH COMMUNITY MEMBERS AND OTHER STAKEHOLDERS ABOUT
SUPERFUND CENTER RESEARCH PROCESSES AND RESULTS

Community Engagement Core: Lauren Heberle and Jamar Wheeler
ASSISTS INVESTIGATORS WITH COMMUNITY ENGAGEMENT AND PROVIDES A PATH FOR
COMMUNITY MEMBERS AND OTHER STAKEHOLDERS TO PARTICIPATE AS PARTNERS IN
SUPERFUND CENTER ACTIVITIES

Training Core: David Hein and Jonathan Freedman
TEACHES UofL STUDENTS ABOUT ENVIRONMENTAL HEALTH SCIENCE RESEARCH

Metabolism and Toxicity Core: Timothy O'Toole, Pawel Lorkiewicz, and Israel Sithu
DETERMINES APPROPRIATE EQUIPMENT TO USE AND TESTS TO RUN ON PHYSICAL SAMPLES
IN EACH OF THE RESEARCH PROJECTS AND COMMUNICATES RESULTS TO LSC TEAM

Sample and Data Management Core: Shesh Rai
HELPS INVESTIGATORS ORGANIZE AND SAFELY STORE DATA AND SAMPLES AND ADVISES ON
APPROPRIATE SAMPLING TECHNIQUES AND STRATEGIES