

We cordially invite you to participate in this community environmental project:

Reducing Exposure to Airborne Chemical Toxics (REACT) via Community-Scale Air Monitoring in Memphis

What is the REACT study?

The REACT study is funded by the US Environmental Protection Agency (EPA). It aims to measure the pollution levels of toxic air pollutants (also called “air toxics”) in the Memphis area. The results are expected to tell whether the air toxics in your neighborhood can cause any adverse health effects. The study will rely on a major collaboration of the Shelby County Health Department, the University of Memphis, and the Middle Tennessee State University to perform air toxics sampling and analysis.

Why are you being invited to take part in this research?

You are being invited to take part in this study because the location of your home may be representative of your neighborhood.

What are the eligibility requirements?

You are eligible to participate if you have a secured (e.g., fenced) backyard and allow our field staff to deploy the sampler(s) there.

Where is the study going to take place and how long will it last?

We will have four visits to your backyard, one time each season over a one-year period. At each visit, our field staff will deploy one or two canisters in your backyard, and leave them there for 1 day. The deployment of sampling devices will take about 15 minutes, and the retrieval will take about 10 minutes. The field staff will perform all the operations. The canister does not require any power or care, nor does it have any noise. The figure displays a typical setup of the canister(s).

Will you benefit from taking part in this study?

Yes. Once the study is completed, we will inform you about the species, concentrations, sources, and potential health effects of air toxics found in your neighborhood.

Whom should you contact?

If you are interested in participating in this study, please send your contact information, including your name, home address, telephone, and e-mail to Dr. Chunrong Jia at cjia@memphis.edu.

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