The research community can now access data and biospecimens from the unique Total Exposure Study (TES). TES compared biomarkers of exposure (BOE) and biomarkers of potential harm (BOPH) in smokers and non-users of tobacco products.

SRI seeks research sponsors and client and partners to leverage this large biospecimen resource. Examples of potential research applications include:

- **Targeted or genome-wide analyses of tobacco exposures**
- **Targeted or epigenome-wide analyses of tobacco exposures**
- **Targeted or global metabolome studies of tobacco exposures**
- **Evaluation of novel biomarkers**

There are 21,000 well-maintained biospecimens (urine, plasma, white and red cells) for analyte preparation and analysis from 2,355 cigarette smokers and 718 non-smokers. Aliquots of biospecimens and large-scale genomic and proteomic assays can be provided to researchers.

**Tobacco exposure measures from 4,662 adults and biospecimens from 3,073 adults—one of the largest such collections**

**What Was Collected?**

Vital signs, demographics, smoking, other exposures, and medical and concomitant medical histories were collected from 3,585 cigarette smokers, and 1,077 individuals not using tobacco- or nicotine-containing products for the preceding five years.

Smokers underwent smoking topography assessment, and all participants provided blood and urine biospecimens for biomarker assays at the time of collection. Biospecimens were retained from a subset of individuals who provided consent for future genetic and biomarker testing.

**Types of Data and Biospecimen Types Available**

Clinical interview and laboratory data are available from 4,662 TES participants. Peripheral blood monocytes, red blood cells, plasma, and urine biospecimens from more than 3,000 individuals are available for processing (e.g., DNA extraction from peripheral blood monocytes, aliquoting of plasma and urine samples) and molecular analyses.

**Background on the Dataset**

Funded by a large tobacco company, the data and biospecimens were collected independently by an internationally recognized contract research organization.

TES subject recruitment, clinical data, and biospecimen collection were implemented in 31 U.S. states in 2002 and 2003. TES biorepository data and biospecimens were donated to the Virginia Tobacco and Health Research Repository and then transferred to SRI for the purposes of independent analysis and dissemination to the research community.

| Number of Total Exposure Study Participants with Biospecimen Aliquots |
|-----------------|----------|----------|----------|----------|----------|
| PBMC            | RBC      | Plasma   | Urine    | Total    |
| 2,963           | 2,770    | 2,914    | 2,620    | 3,073    |
About SRI Biosciences

SRI Biosciences carries out basic research, drug discovery and drug development, and provides contract services. SRI has all of the resources necessary to take R&D from Idea to IND and beyond—from initial discovery to the start of human clinical trials—and specializes in cancer, immunology and inflammation, infectious disease, and neuroscience.

SRI's clients and partners in tobacco and addiction research include the National Institutes of Health, including the National Heart, Lung, and Blood Institute and the National Institute on Alcohol Abuse and Alcoholism; and the University of California Tobacco-Related Disease Research Fund.

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About SRI International

SRI International is a nonprofit research and innovation center headquartered in Silicon Valley. Government and business clients worldwide come to SRI for pioneering solutions in biomedical sciences and health, chemistry and materials, computing, education, economic development, energy, security and defense, robotics, sensing, and more.

We provide research, laboratory and advisory services, technology development and licenses, deployable systems, products, and venture opportunities. Our innovations have created new industries and marketplace value, and lasting benefits to society.

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