

Introductory Remarks: Do Semi-Volatile Components of Ultrafine Particles Accelerate Atherosclerosis?

Principal Investigator: Dr. Michael T. Kleinman

Lori Miyasato, Ph.D.
Contract Manager
Research Division
California Air Resources Board

October 9, 2013

California Environmental Protection Agency
 **Air Resources Board**



Research Gaps Addressed by this Project

- National Research Council (NRC), 2004
 - How PM characteristics relate to toxicity
- Health Effects Institute (HEI), 2013
 - Controlled animal exposures to ultrafine PM for cardiovascular effects
- Current Project
 - Examines little-understood size fraction (ultrafine) and its constituents
 - Fills research gap of controlled exposure effects on cardiovascular system

Dr. Kleinman's Project

- CA relevance: Los Angeles traffic PM
- Adds to our knowledge of ultrafine PM health impacts
- Heart disease progression:
 - Role of ultrafine PM
 - Role of semi-volatile constituents
- Findings will help inform ARB efforts to protect public health