

Members of the Scientific Review Panel on Toxic Air Contaminants

This page last reviewed on May 20, 2014

Pursuant to the section 39670 of the Health and Safety Code, nine members are shown by category below.

ACADEMIC ADMINISTRATION

S. Katharine Hammond, Ph.D.

Chair, Environmental Health Sciences Division Professor of Environmental Health Sciences School of Public Health

University of California, Berkeley

ATMOSPHERIC SCIENCE

Cort Anastasio, Ph.D.

Professor of Tropospheric Chemistry
and Department Vice Chair
Department of Land, Air and Water Resources
University of California, Davis

BIOCHEMISTRY/MOLECULAR BIOLOGY

Sarjeet S. Gill, Ph.D.

Professor of Cell Biology

Department of Cell Biology and Neuroscience University of California, Riverside

BIOSTATISTICS

Stanton A. Glantz, Ph.D.

Professor of Medicine

Division of Cardiology, Department of Medicine

School of Medicine

University of California, San Francisco

EPIDEMIOLOGY

Beate R. Ritz, M.D., Ph.D.

Vice Chair Professor

Department of Epidemiology and

Environmental Health Sciences

School of Public Health

University of California, Los Angeles

OCCUPATIONAL MEDICINE

Paul D. Blanc, M.D.

Chief, Division of Occupational and Environmental Medicine Endowed Chair, Occupational Medicine Professor of Medicine

University of California, San Francisco

*

Alan R. Buckpitt, Ph.D.

Professor

ONCOLOGY

Department of Molecular Biosciences School of Veterinary Medicine University of California, Davis

PATHOLOGY

Jesús A. Araujo, M.D., Ph.D.

Associate Professor

Director of Environmental Cardiology

Division of Cardiology

School of Medicine

University of California, Los Angeles

TOXICOLOGY

Michael T. Kleinman, Ph.D., Chairman

Co-Director and Professor

Air Pollution Health Effects Laboratory

Department of Medicine

University of California, Irvine

Prof. Michael T. Kleinman

Research Area:

Health Effects



Contact Information

University of California, Irvine

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Faculty Home Page: http://www.faculty.uci.edu/profile.cfm?faculty_id=2235

Professor of Environmental Toxicology and Co-Director of the Air Pollution Health Effects Laboratory in the Department of Community and Environmental Medicine, Adjunct Professor in College of Medicine [Ph.D. in Environmental Health Sciences from New York University, NY]. Professor Kleinman brings to the ORU expertise in the health effects of air pollution on animals and humans, as well as the development of analytical techniques for assessing biological and physiological responses to exposure to environmental contaminants and for determining concentrations of important chemical species in air.

Environmental pollutants represent important potential causes of preventable neurological, cardiological and pulmonary diseases. The research in Dr. Kleinman's laboratory uses immunological and molecular methods to examine the mechanisms by which toxic agents affect the lung and heart. Current studies include the effects of ambient particles on blood pressure and heart rate in sensitive animal models. Other studies examine the link between asthma and environmental exposures to ambient particles near real- world pollutant sources, such as freeways in Los Angeles.

Research focuses on mechanisms of cardiopulmonary injury following inhalation of toxic compounds. State-of-the-art methods are used to evaluate the roles of free radicals and oxidative stress in sensitive human volunteers and laboratory animals. In vitro methods are used to evaluate specific mechanisms. Dr. Kleinman's current studies involve the inhalation exposures to manufactured and combustion-generated nanomaterials fine and coarse particles using state of the art field exposure systems and real-time physiological monitoring methods. Recent findings demonstrate that fine and ultrafine particles near heavily trafficked roads increase the risk of developing airway allergies but this allergenic potential is attenuated at greater distances downwind of the source. The chemical and physical changes in the aerosol responsible for the heightened allegenicity of the near-source particles is an important focus of Dr. Kleinman's research.

Biological mechanisms related to oxidative stress have been identified after particulate matter exposure and Dr. Kleinman's team is also pursuing how these mechanisms affect pathological and physiological changes in the heart and lungs. Other interests include analytical and atmospheric chemistry, environmental sampling and analysis, and the application of mathematical and statistical methods to environmental and occupational assessments of exposure and risk.

Prior to joining the faculty at UCI in 1982, he was the Director of the Aerosol Exposure and Analytical Laboratory at Rancho Los Amigos Hospital in Downey, CA. Dr. Kleinman was also a Physical Scientist at the U.S. Atomic Energy Commission Health and Safety Laboratory (now the DOE Environmental Measurements Laboratory) in New York and has published approximately 100 peer-reviewed articles in the fields of environmental health sciences, atmospheric chemistry and radiochemistry, transport and fate of airborne contaminants in tropospheric and stratospheric air, apportionment and identification of sources of air pollution, and the effects of air pollution on health. Dr. Kleinman is the current chair of the California Air Quality Advisory Committee, a member of the U.S. EPA Clean Air Scientific Advisory Committee and also chairs the Executive Committee for the U.C. Toxic Substances Research and Teaching Program.

Research Interests:

- · Inhalation toxicology
- Oxidative stress
- · Cardiopulmonary diseases

Selected Honors and Awards:

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Updated July 3, 2014: Now includes **2013 University of California pay**, 2013 civil service pay, 2013 CSU pay, and 2012 state legislative pay.

This database allows you to search the salaries of California's 300,000-plus state workers and view up to seven years of their pay history.

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Sources: University of California President's Office, California State Controller's Office, California Legislature

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