



**INTRODUCTORY REMARKS:  
DO INHALED AMBIENT PARTICLES INDUCE  
OXIDATIVE STRESS AND INFLAMMATION IN THE  
BRAIN?**

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# PARTICULATE MATTER & THE BRAIN

- Strong evidence of PM associations with heart and lung disease and death
- Less known about PM exposure effects on the brain
- Emerging evidence for association between air pollution exposure and adverse central nervous system effects
- This study examines PM exposures in several U.S. cities
  - Possible source-related effects



## DR. KLEINMAN'S STUDY

- Takes advantage of large multi-city Health Effects Institute study
- California relevance: includes L.A. Basin site
- Gives insight into how PM exposure affects the central nervous system

