

# Air Pollution and the Immune System

Chairs: Evangelia Samoli, National and Kapodistrian University of Athens; and Ivan Rusyn, Texas A&M University



# Air Pollution and the Immune System



- ❑ Welcome and Introduction

**Evangelia Samoli, University of Athens, and HEI Research Committee**



- ❑ Acute air pollution and respiratory infection, including COVID-19

**Francesco Forastiere, Imperial College London**



- ❑ Air pollution exposure and altered immune response to respiratory viral infection

**Ilona Jaspers, UNC Chapel Hill**



- ❑ Long-term air pollution exposure and immune dysfunction in children

**Kari Nadeau, Stanford University**



- ❑ Moderation of Discussion

**Ivan Rusyn, Texas A&M University , and HEI Research Committee**

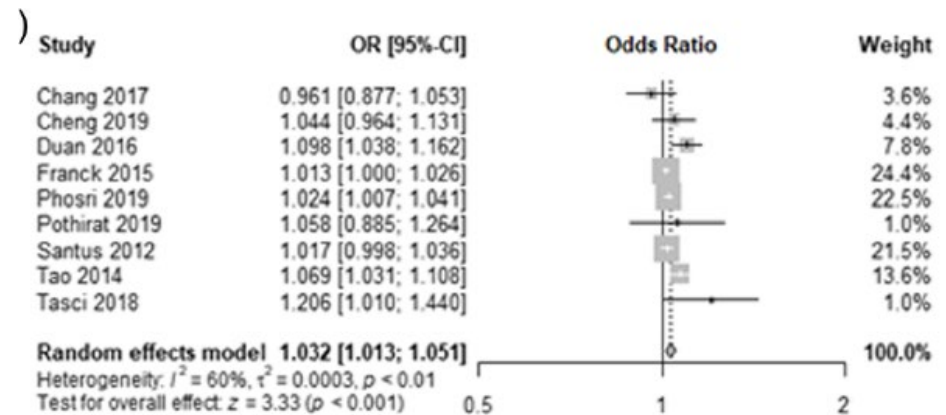
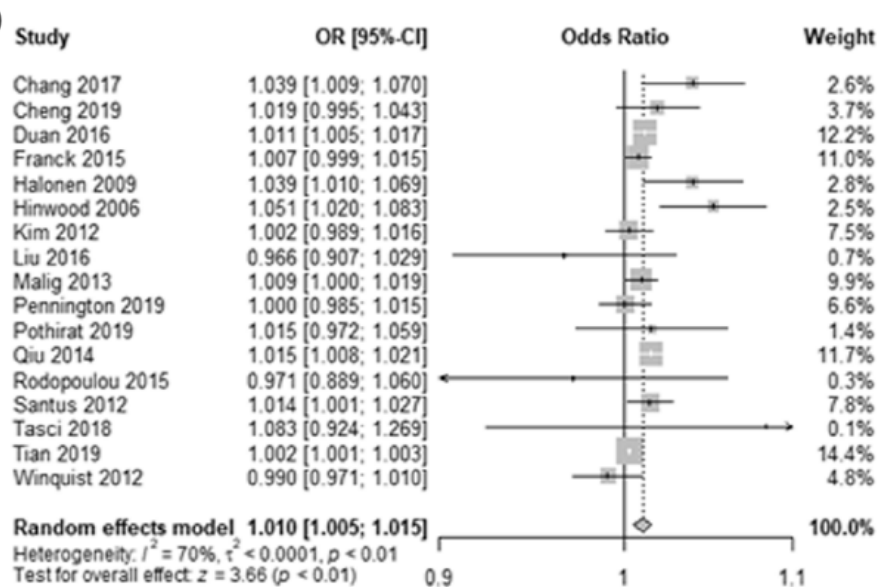
**HEI**



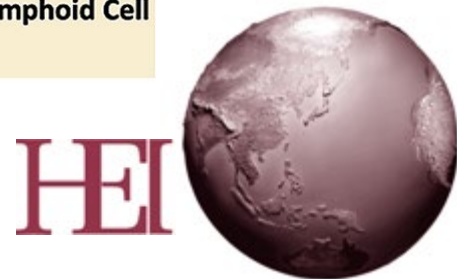
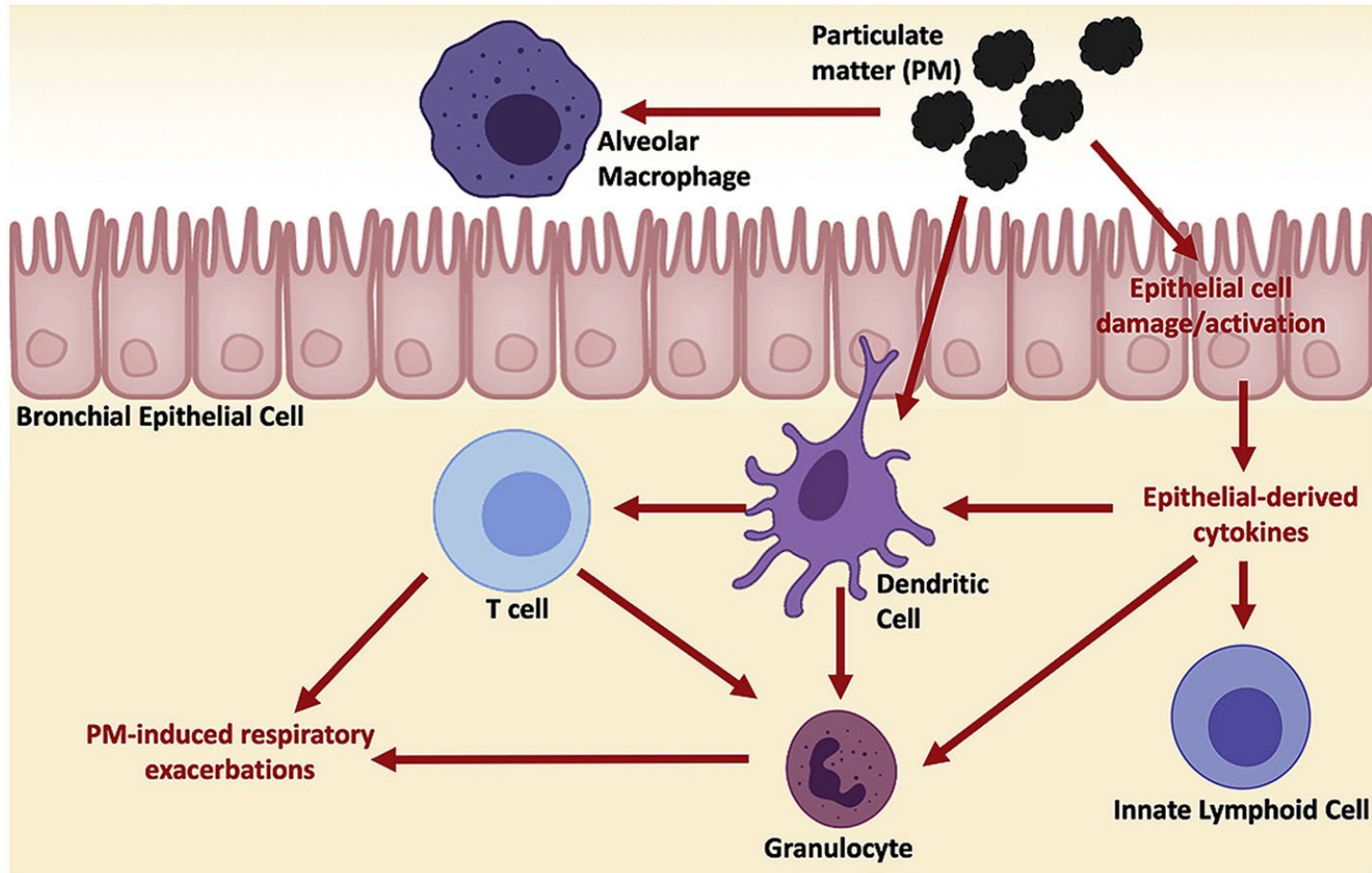
# Short-term exposure to air pollution and hospital admission for pneumonia: a systematic review and meta-analysis

PM<sub>2.5</sub>

NO<sub>2</sub>

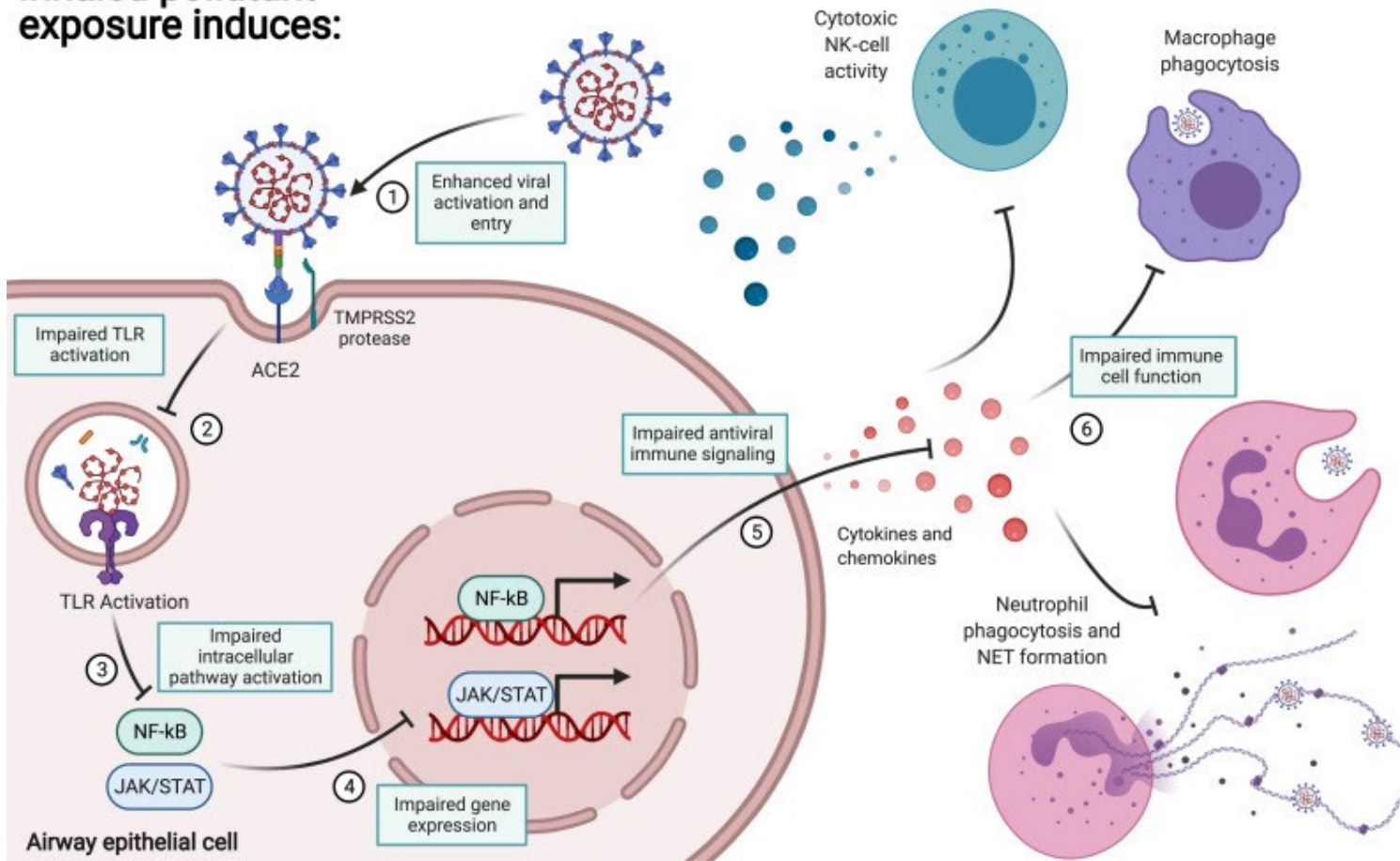


# *Air pollution and its effects on the immune system*



# Impact of inhaled pollutants on response to viral infection in controlled exposures

Inhaled pollutant exposure induces:



HEI

