

### A Controlled Human Exposure Model to Understand Health Effects of Depleting Particles from TRAP



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While allergen exposure has been a primary focus of asthma development and exacerbation research, the evidence associating traffic-related air pollution (TRAP) with asthma, and for its synergistic effects, is considerable. Diesel exhaust (DE) is a paradigm of TRAP, a complex mixture of particulate matter (PM) and gases, and although modern diesel engines include catalytic diesel particulate filters (cDPF) to reduce PM output, such systems may increase gases, and their effects on health remain unclear. To investigate potential DE-associated alternation of allergen effects in the context of PM reduction, we conducted a controlled human exposure study with allergen inhalation, DE, and particle-depleted DE exposures, and investigated symptoms and a range of pathophysiological endpoints to better understand this issue.

**Wednesday, January 13, 2021 3:00 - 4:00PM**

**Microsoft Teams Meeting** - [Click here to join the meeting](#)

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