

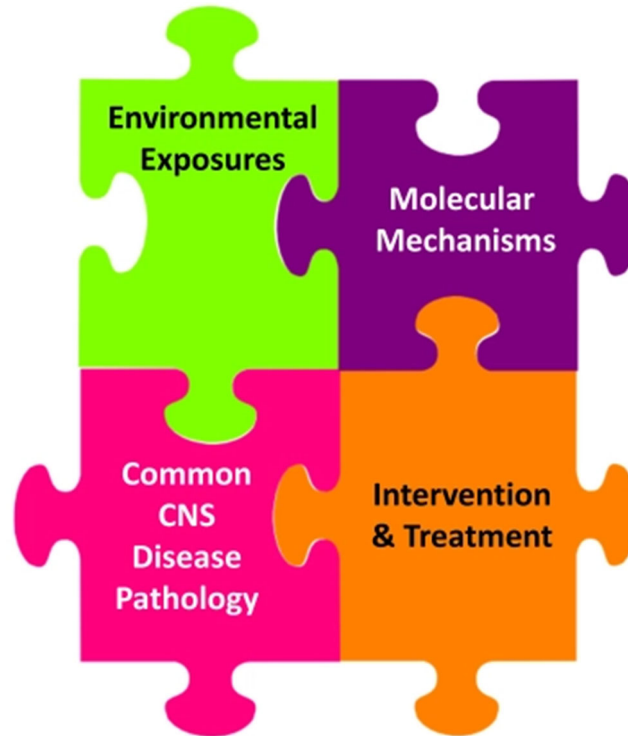
Open Positions

We are looking for:

- 1) **graduate students**
- 2) **technician**
- 3) **postdoc**

interested in studying how the pulmonary response to air pollutants affects the brain.

"Our goal is to understand how microglia, the resident innate immune cells in the brain, drive CNS diseases."

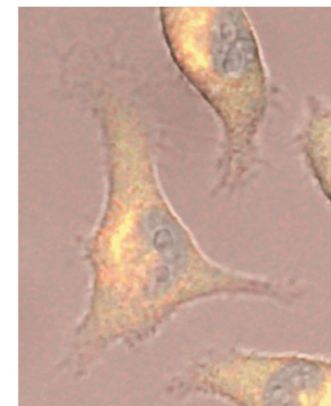
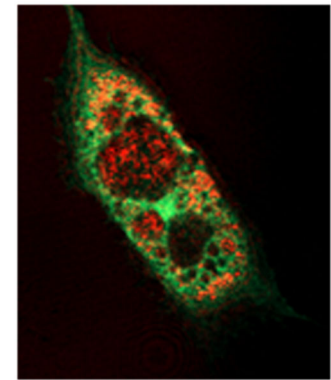


We study:

- Alzheimer's Disease
- Gulf War Illness
- Parkinson's Disease

The Block Lab

Microglia Biology & Environmental Neurotoxicology



(From Pei et al, *Glia*, 2007)

Always on the Cutting Edge
of Science...



Representative Recent Pubs

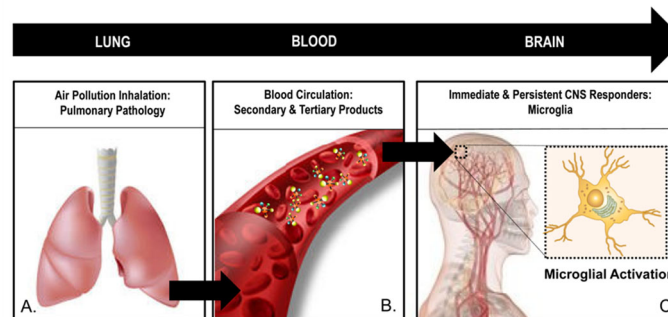
Greve HJ, Dunbar AL, Lombo CG, Ahmed C, Thang M, Messenger EJ, Mumaw CL, Johnson JA, Kodavanti UP, Oblak AL, Block ML. **The bidirectional lung brain-axis of amyloid-beta pathology: ozone dysregulates the peri-plaque microenvironment.** Brain. 2022 Mar 28;awac113. doi: 10.1093/brain/awac113. Online ahead of print. PMID: 35348636

Ladd TB, Johnson JA Jr, Mumaw CL, Greve HJ, Xuei X, Simpson E, Barnes MA, Green BJ, Croston TL, Ahmed C, Lemons A, Beezhold DH, Block ML. **Aspergillus versicolor Inhalation Triggers Neuroimmune, Glial, and Neuropeptide Transcriptional Changes.** ASN Neuro. 2021 Jan-Dec;13:17590914211019886. doi: 10.1177/17590914211019886. PubMed PMID: 34098774; PubMed Central PMCID: PMC8191080. *** Received the 2022 NIOSH/NIH Alice Hamilton Award for best research paper.

Peripheral Regulation of Microglia-Mediated Neuropathology

Our research team strives to understand how different environmental exposures and unique peripheral immune responses result in both disease-specific and common mechanisms responsible for microglial driven CNS pathology (Alzheimer's disease, Parkinson's disease, and Gulf War Illness), with the goal of understanding how to intervene in these processes.

We Study the Lung-Brain Axis



(From Mumaw et al, 2016)

Contact Us!



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