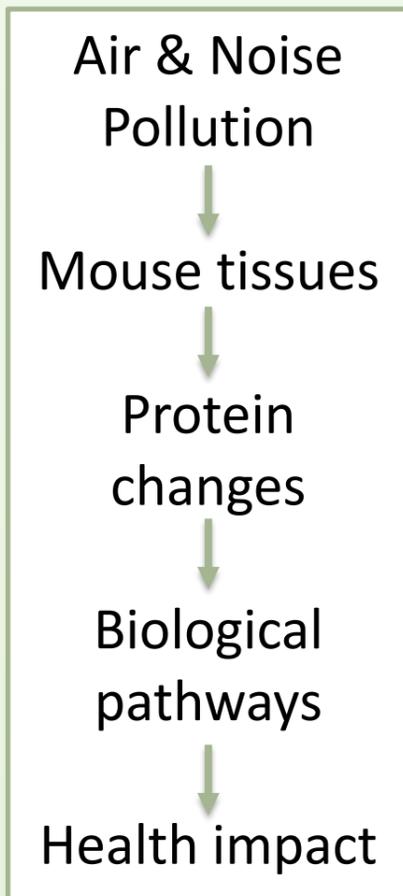
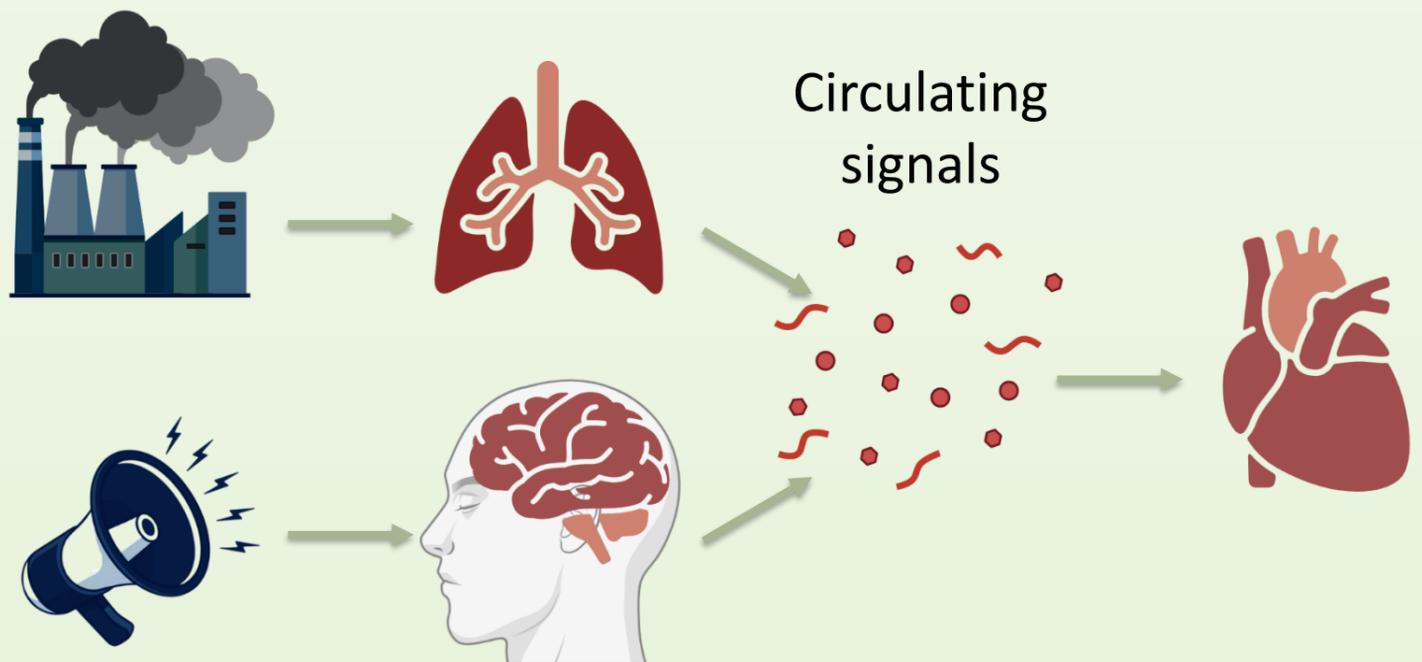


What happens in the body when we breathe polluted air?

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Air pollution and noise are major environmental risk factors for cardiovascular disease.



Techniques used: • proteomics • phosphoproteomics • redox proteomics • bioinformatics • systems biology • organoids

Computational projects

- Analyze proteomics data
- Find biological pathways affected by pollution
- Compare protein changes across organs
- Study protein modifications caused by oxidative stress
- Search for disease signals

Experimental projects

- Measure protein changes after pollution exposure
- Study cell signaling using phosphoproteomics
- Study inflammation
- Work with human cells and organoid models



**PROTEIN
OXIDATION
& AGEING
GROUP**

ADELINA ROGOWSKA-WRZESINSKA



WANT TO KNOW MORE?