

Particle Research Group

- Particle inhalation is endemic, impacts on **every biological system**, is associated with a myriad of diseases and adversely effects the health of millions worldwide
- The relationships between particle properties and toxicity pathways (**structure-activity-relationships**) dictate disease – **these relationships are poorly understood**
- Whilst the exposures, tissues and effects are diverse, there are common mechanisms of which **inflammation** and **oxidative stress** are key
- Understanding these relationships between particle properties, inflammation and disease pathways is crucial to controlling risks and **preventing disease**

Multi-system effects of [nano]particle inhalation in health & disease

