

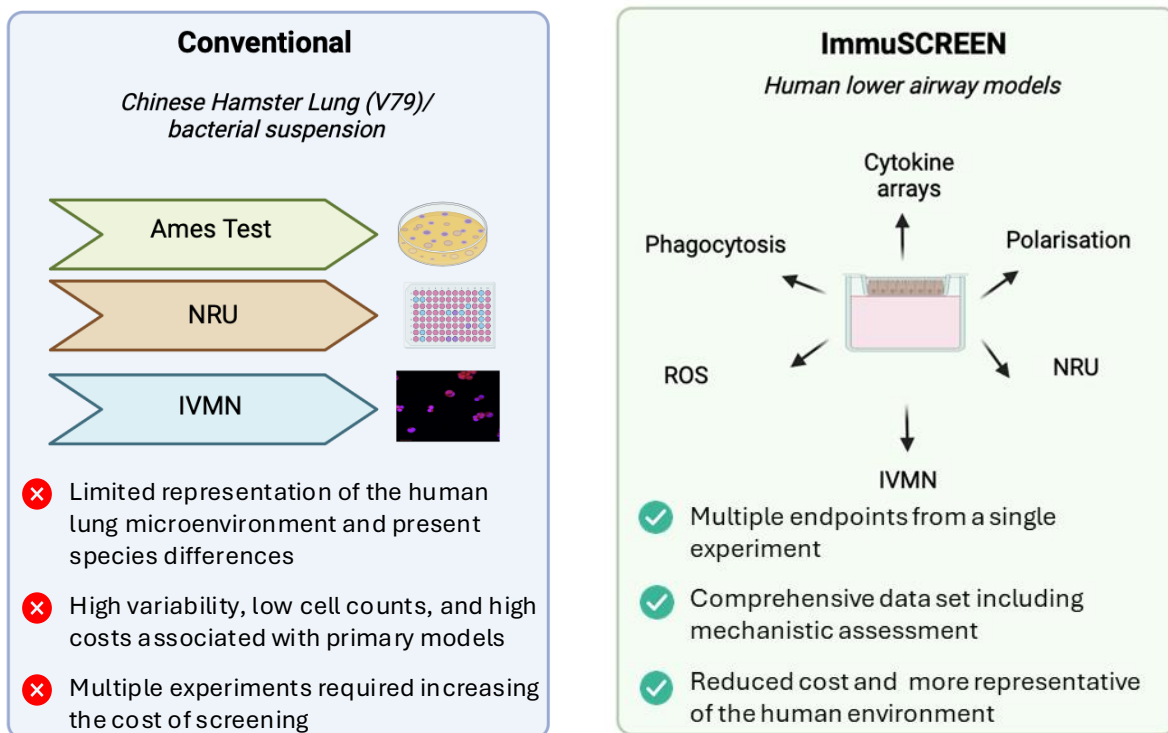
ImmuSCREEN™

Tailored approach to aerosol toxicity testing for inhalation safety

INHALATION TESTING OF AEROSOLS

Conventionally, Chinese hamster lung cells (V79) or primary lung models are exposed to aerosols and assessed for gene mutation, cytotoxicity (neutral red uptake assay) and chromosome aberrations (*in vitro* micronucleus test).

The ImmuSCREEN service provides an alternative human lung relevant and mechanistic approach for predicting aerosol-induced toxicity and immune responses in the lungs.



MULTIPLEXING

Epithelial Cells

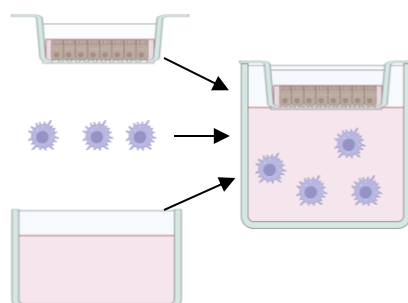
- Genotoxicity testing
- Mode of action (gamma H2AX and H3)
- Cell viability/ Neutral Red Uptake/satellite plate
- Membrane Integrity

Macrophages

- Phagocytosis
- Polarisation
- Proteomics/ genomics

Supernatant

- Cytokines/ chemokines
- LDH release



CLIENT VALUE

- Human and lung relevant model for predicting aerosol induced toxicological and immune response in human lungs
- Commercially available for routinely inhalation toxicity studies
- Co-culture with macrophages enables assessment of immune response in humans
- Suitable for multiplexing on an air-liquid interface