expoCube®

in vitro exposure

Reliable and effective *in vitro* exposure

The expoCube provides a novel ALI (air liquid interface) culture exposure system, integrating with the inExpose's existing exposure generators such as the integrated cigarette smoking robot and industry leading e-cigarette extensions.

It permits highly reliable and effective deposition of aerosols onto cells and tissues.

FEATURES

Accurate and efficient particle deposition profiles

- Patented thermophoresis, increasing the deposition efficiency of small particles without imparting unnatural electrostatic charges onto the aerosols.
- Optimized flow paths using advanced computational fluid dynamics (CFD) modelling, allowing uniform deposition of airborne particles on the target cells, regardless of the particle size.

Physiologically relevant particle exposure

- Completely isolates the airborne particles (apical side) from the medium (basal side) by creating a reliable seal within transwell insert.

Optimized workflow

- Allows the entire experimental process to be carried out on standard commercial transwell plates (e.g. Corning Costar), limiting handling and manipulation errors.
- Seamlessly integrates with our inExpose system, allowing for the same exposure platform to work with *in vitro* and *in vivo* groups.

Cost effective **Reproducible** **Proven**