

## Application Examples



**Tobacco Smoke/  
E-Cigarette Vapors:**  
whole aerosol and gas phase



**Environmental Aerosol:**  
industrial emissions, exhaust gas from  
combustion processes, viruses, environmental  
pollutants in general, allergens



**HICE:**  
combustion derived aerosols from ship  
diesel and automotive engines as well as  
from wood stoves



**C<sup>3</sup>:**  
aerosol generated from cutting process of  
carbon concrete composite



**Carbon Fibre Cycle:**  
investigation of release and toxicity during the  
thermal and mechanical treatment of carbon  
fiber composite materials in the recycling process



**NanoMILE:**  
investigation of nanoparticles

## Aerosol Sources

**AirTox Monitor**



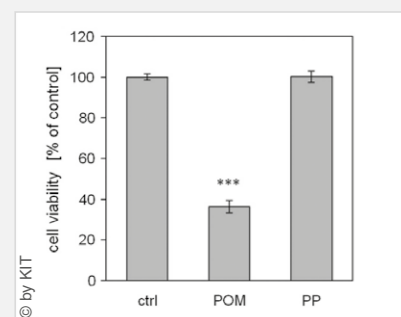
**Automated  
Exposure Station –  
Standard Version**



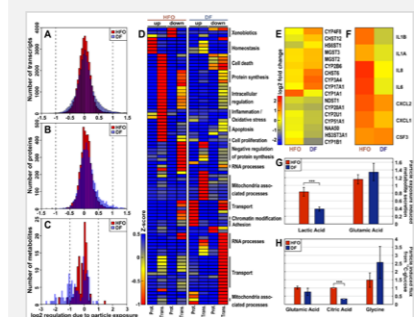
**Automated  
Exposure Station –  
Standard Version**



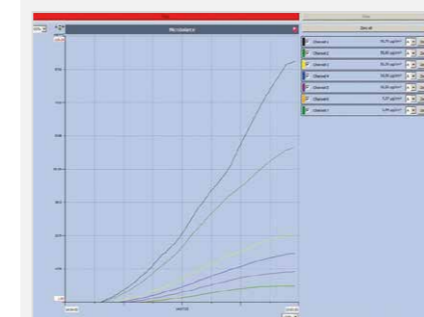
## Test Results



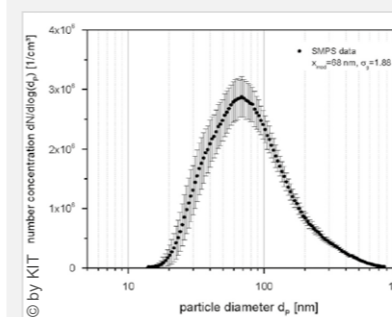
**Basic Assays:**  
cell viability, cytotoxicity  
see also VITROCELL® Assay Guide



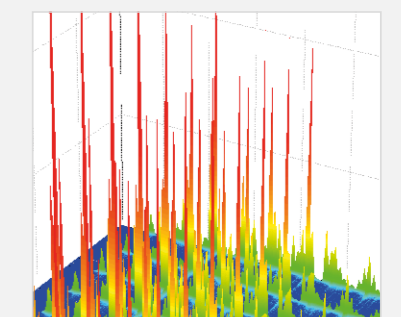
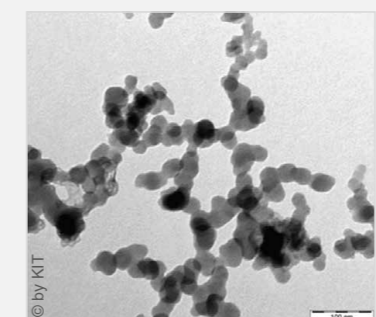
**Omics-Analysis:**  
metabolomics, transcriptomics,  
proteomics, micro-RNA



**Dose monitoring:**  
online dose determination



**Physical Aerosol Characterization:**  
number size distribution, morphology



**Chemical Characterization:**  
mass spectrometry