Filling the gaps: A lung-on-chip for R&D and preclinical studies



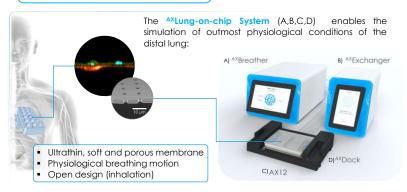


Contact: info@alveolix.com

G. Raggi¹, Lea de Maddalena¹, Laurène Froment¹, Nicole Albrecher¹, Arunima Sengupta^{2,3} Andreas Hugi¹, Léa Todeschini¹, Janick D. Stucki¹, and Nina Hobi¹

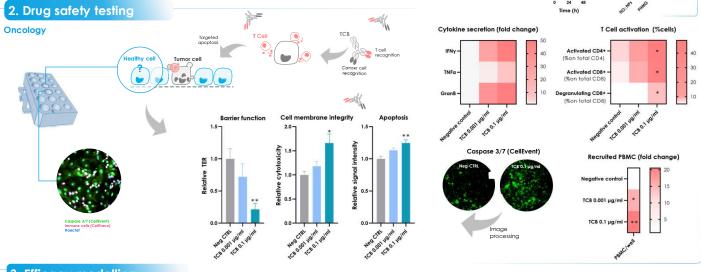
¹AlveoliX AG, Swiss Organs-on-Chip Innovation, Bern (Switzerland) ²Organs-on-Chip Technologies, ARTORG Center for Biomedical Engineering, University of Bern (Switzerland) ³ Alexis Technologies AG, Bern (Switzerland)

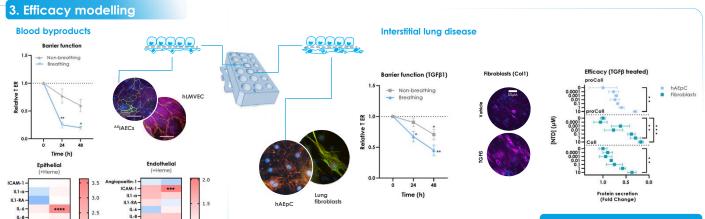
Mimicking the distal lung



Here, we present its wide range of applications covering inhalation toxicology, molecule safety and efficacy testing and evaluation of clinically relevant endpoints.

1.Inhalation toxicology Occupational (TiO₂ NPs) vs toxic exposure (PHMG) AX12 cov Day21 nosure (48h)





Conclusions

Altogether, our data lays out the predictive capabilities of the ^{AX}Lung-on-chip System for

IP-10

MCP-1

ANTIACCS: Alveolix® immortalized alveolar epithelial cells

AX HAEDC: Alveolix® primary alveolar epithelial cells

TCB: T Cell Bi-specific antibody

Vitrocell Systems GmbH