

PMP | WORKSHOP

**PHILIP MORRIS
R&D**

In vitro exposure systems and
dosimetry assessment tools
for inhalation toxicology

co-organized by



THURSDAY 23 – FRIDAY 24 MAY 2019
Hosted by Philip Morris R&D
NEUCHÂTEL, SWITZERLAND

DAY 1 THURSDAY MAY 23RD

08:45 - 09:00	Welcome coffee		
09:00 - 09:10	Introduction	Alertox Academy overview	Ilija Prachkovski Alertox Academy
09:10 - 09:25	Lecture / Webinar	Aerosol physics for particles and vapors including models and novel approaches for aerosol flows prediction and characterization using Computational Fluid Dynamics	Arkadiusz Kuczaj PMP
09:25 - 09:40	Lecture / Webinar	Deterministic dosimetry for particles and vapors	Michael Oldham External consultant
09:40 - 09:55	Lecture / Webinar	Experimental approaches to characterize in vitro exposure system	Sandro Steiner PMP
09:55 - 10:10	Lecture / Webinar	In Vitro Models	Samuel Constant Epithelix
10:10 - 10:25	Lecture / Webinar	Exposure systems used for in vitro inhalation toxicology	Stefan Frentzel PMP
10:25 - 10:45	Lecture / Webinar	Use of High-Content Screening in characterizing the impact of trapped aerosol components in vitro	Diego Marescotti PMP
10:45 - 11:00	Coffee Break		
11:00 - 12:00	Training: lab tour	Aerosol generation / In vitro exposure systems, Cell Biology Lab Tour including High-Content Screening, Histology and Omics lab	Stefan Frentzel, Arkadiusz Kuczaj PMP
12:30 - 13:30	Lunch		

13:15 - 15:00	Hands-on Training	Aerosol generation Aerosol characterization and exposure (fluorescent setup build from scratch to exposure) – Opportunity to practice with fluorescence-based particles for system characterization	Stefan Frentzel, Arkadiusz Kuczaj PMP
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15:00 - 15:15 Coffee Break

15:15 - 17:00	Hands-on Training	3HCS exp. processing (part I) Processing of 3D organotypic culture inserts for histological and gene expression analysis TEER measurement/apical rinse CBF analysis (SAVA system)	Stefan Frentzel, Arkadiusz Kuczaj PMP
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Whole mount staining of 3D organotypic culture inserts and subsequent imaging – part 1 (High-Content)

19:00 Social Dinner

DAY 2 FRIDAY MAY 24TH

08:45 - 09:00 Welcome coffee

09:00 - 10:30	Hands-on Training	Dosimetry tools, approaches and applications: training on dosimetry - Calculation of deposition efficiencies for non-evolving aerosols and particles - Scenario calculations for human exposure equivalence (in vitro- human)	Stefan Frentzel, Arkadiusz Kuczaj PMP
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10:30 - 10:45 Coffee Break

10:45 - 12:00	Hands-on Training	Dosimetry tools, approaches and applications: training on dosimetry - Calculation of deposition efficiencies for non-evolving aerosols and particles - Scenario calculations for human exposure equivalence (in vitro- human)	Stefan Frentzel, Arkadiusz Kuczaj PMP
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12:15 - 13:15 Lunch

13:15 - 15:00	Hands-on Training	Whole mount staining of 3D organotypic culture inserts and subsequent imaging – part 2 (High-Content)	Stefan Frentzel, Arkadiusz Kuczaj PMP
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15:00 - 15:15 Coffee Break

15:15 - 16:30	Hands-on Training	Whole mount staining of 3D organotypic culture inserts and subsequent imaging – part 2 (High-Content)	Stefan Frentzel, Arkadiusz Kuczaj PMP
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16:30 - 17:00	Closing of the session	Handing out Certificates	
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PRACTICAL INFO

LOCATION:

Philip Morris Products S.A.
Research & Development Innovation Cube
Quai Jeanrenaud 5
2000 Neuchâtel

The R&D Cube is a glass building situated right at the entrance to PMP S.A. premises.
The entrance to the reception is located from the lake side.



GOING TO NEUCHÂTEL:

If you come to Geneva/Zurich by plane

On your arrival at Geneva or Zurich Airport, follow the signs to the train station (it is located inside the airport).

Please buy a round ticket in the ticket machine, and specify your return date.

Direct trains to Neuchâtel leave about every 60 minutes. You can consult the timetable at <https://www.sbb.ch/en/home.html>.

Round 1st class ticket Geneva - Neuchâtel costs around CHF 150.-. The trip takes around 1h20min.

Round 1st class ticket Zurich - Neuchâtel costs around CHF 180.-. The trip takes around 2h20min.

If you come to Neuchâtel by train

From Neuchâtel train station, please take a taxi to Philip Morris R&D. This will take around 10 minutes and will cost approximately CHF 30.-

If you come to Philip Morris R&D by car

There is a paid parking lot for visitors next to R&D Innovation Cube.

ACCOMODATIONS:

If you need hotel accommodation, we recommend one of the following hotels.

Name	e-mail / www	Address / phone
Hotel Beau-Rivage	info@beau-rivage-hotel.ch www.beau-rivage-hotel.ch	Esplanade du Mont-Blanc 1 2001 Neuchâtel Ph: +41 32 723 15 15 Fax: +41 32 723 16 16
Hotel Beaulac	hotel@beaulac.ch www.beaulac.ch	Esplanade Léopold-Robert 2 2000 Neuchâtel Ph: +41 32 723 11 11 Fax: +41 32 725 60 35
Hotel Alpes et Lac	www.alpesetlac.ch info@alpesetlac.ch	Place de la Gare 2 2000 Neuchâtel Ph : +41 32 723 19 19

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