

AGENDA

MONDAY, 7 JULY		
<u>David de Wied building</u> (room DDW M1.01), Universiteitsweg 99 , Utrecht University, Uithof campus		
09:00-09:15	Welcome and course outline	Silvia Mihăilă (UU, Pharmacology) Kerstin Schneeberger (UU, Veterinary Faculty) Faranak Heidari (UU, Pharmacology) Mohammad Jouybar (UMC, Biofabrication)
09:15-10.30	Participants introduction	3 mins pitching
10.30-10.45	Coffee break	
10:45-11:30	How to make your in vitro system completely animal-free and why that matters	Jeffrey Bajramovic (3Rs Centre Utrecht)
11.30-12.15	Automated analysis of <i>in vitro</i> models	Sam van Beuningen (UMC Utrecht)
12:15-13:15	Lunch	
13:15-14:45	Visit to the Regenerative Medicine Center (RMCU) and back to DDW 1.01	
14.45-15.30	Organoids as liver disease models	Kerstin Schneeberger (UU)
15:30-15:45	Coffee break	
15:45-16:30	Advanced cardiac disease modeling using iPSCs	Barbara Salingova (UMC Utrecht)
16:30-17.00	Brain organoids and blood-brain barrier	Henrique Nogueira Pinto (Amsterdam UMC) (ONLINE)

19.30 – 21.00 (optional) social activity: Bowling Night

ORGANS ON CHIPS	
TUESDAY, 8 JULY 09.00-11:00 David de Wied building (room DDW M1.01), Universiteitsweg 99 11:00-15:00 Lili's Proto Lab Caroline Bleekergebouw 0.20-0.26a, Sorbonnelaan 4 15:30-17:00 Victor J. Koningseberger Building (KBG) 330, Budapestlaan 4a-b Faranak Heidari (UU, Pharmacology) Dr. Mohammad Jouybar (UMC, Biofabrication) Dr. Silvia Mihăilă (UU, Pharmacology) dr. Pieter Kooijman (Lili Proto Lab)	
09:00-10:30	Introduction to organs-on-chips (theory) Mohammad Jouybar (available designs, materials, printing strategies, tubings, pumps, etc)
10:30-11:00	Coffee break and heading to LILILAB
PRACTICALS KBG 3.30 11.00- 15:00 LILILAB FUSION 360 FDM PRINTING	
11:00 - 12:30	Practical 1 – LILI LAB
12:30-13:30	Lunch
13:30-15:00	Practical 2 – LILI LAB
15.00-15.30	heading to KBG and coffee break
15.30-17:00	Practical 3 – PDMS casting and plasma bonding

19.15 – 21.30 (optional) social activity: Night Canoeing

ORGANOIDS		
WEDNESDAY, 9 JULY		
09:00-13:00 <u>David de Wied building</u> (room DDW M1.01), Universiteitsweg 99		
13:00-17:00 <u>Victor J. Koningseberger Building</u> (KBG) 330, Budapestlaan 4a-b,		
Varun Chopra (UU, Veterinary Faculty)		
Arabela Ritchie (UU, Veterinary Faculty)		
Kerstin Schneeberger (UU, Veterinary Faculty)		
Julie Watson (STEMCELL Technologies)		
09:00-09:45	Patient-derived organoids: A PATIENT IN THE LAB® platform for drug discovery and development	Sylvia Boj (HUB Organoids / Merck)
09:45-10:00	Coffee break	
10.00-12.00	Introduction to organoid handling by STEMCELL Technologies Julie Watson	
12:00-13:00	Lunch and walk to KBG	
PRACTICALS KBG.330		
13:00-16:30	Hands-on-session: organoid passaging	

17.00 – 19.00 (optional): Utrecht Summer School Opening Ceremony

APPLICATIONS		
THURSDAY, 10 JULY		
09.00-17:00 <u>David de Wied building</u> (room DDW M1.01), Universiteitsweg 99		
12:45-14:15 <u>Victor J. Koningseberger Building</u> (KBG) 330, Budapestlaan 4a-b, 3584 CD Utrecht		
• Dr. Silvia Mihăilă (UU, Pharmacology) • Dr. Mohammad Jouybar (UMC, Biofabrication) • Dr. Kerstin Schneeberger (UU, Veterinary Faculty) • Faranak Heidari (UU, Pharmacology) • Varun Chopra (UU, Veterinary Faculty) • Arabela Ritchie (UU, Veterinary Faculty)		
PRACTICALS		
09:00-09:45	TEER measurements	Silvia Mihăilă
09.45-10:30	Patient-specific tumor organoids	Maria Rodriguez Colman (UMC Utrecht)
10:30-10:45	Coffee break	
10.45-12:00	Fluid dynamics and Comsol hands on	Faranak Heidari
12:00-12:45	Lunch at DDW walk to KBG	
12:45-14:15	Walk to KBG and check your passaged organoids and come back	
Solve your riddle- Groups of 3-4		
14:15-14.30	Introduction to the task	Mohammad Jouybar Faranak Heidari
14.30-15:30	Solve your riddle – group work: brainstorm and design, prepare presentations	
15:30-16:00	Coffee break	
16.00-17.00	Solve your riddle – group work: present and discuss (10min max)	

19:30 - 22:00 (optional) social activity: Pub quiz

FRIDAY, 11 JULY		
09.00-17:00 <u>David de Wied building</u> (room DDW M1.01), Universiteitsweg 99		
09:00-09:30	Collecting keys	
09.30-10.00	HELLO R&D- from idea to company	Indi Joore (HELLO R&D)
10.00-10.30	Animal free innovation – a personal story	Laura de Wildt (Health Holland and HeartSmart)
10:30-11:00	Coffee break and group picture	
11:00-11.30	RPMotion – developing and marketing an organoid bioreactor	Marleen van Nuenen (Orgonex)
11:30-12:30	Drug ADME <i>in vitro</i>	Thom van der Made (UU)
12:30-13:00	Wrap up and lunch (take away)	