

Organ on a chip MasterClass

Intestine & Intestine-Microbiome

by AZAR Innovations

University of Amsterdam, the Netherlands
15-16 June 2023

Video lectures (preparation in-person training):

Content

WHYs and WHATs of organ on a chip + Quiz

Preparing organ on a chip (pre-experiment) + Quiz

Operating organ on a chip (experiment) + Quiz

Extracting data from organ on a chip (post-experiment) + Quiz

Duration

1 hour

1 hour

1 hour

1 hour

Online HelpCenter:

Simplified principles and theories

Commercial systems (chips, perfusion systems and other components)

Tips and tricks

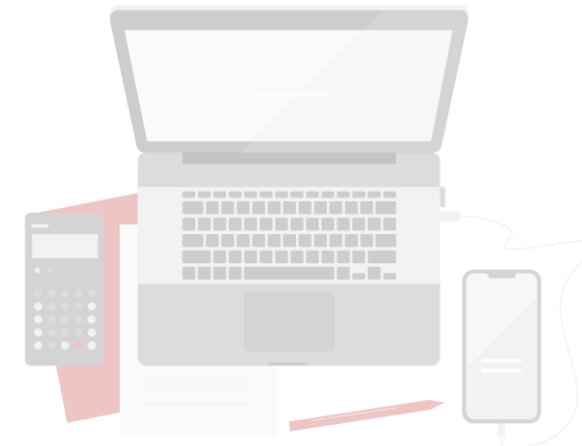
Digest of most recent papers

Video protocols

Commercial brochures

Webinar commercial presentations (3 May 2023, 15.00-16.30):

Presentation by invited commercial companies – Intestine & Intestine-microbiome on a chip
(This presentation will be recorded and provided to the participants)



| Time | Content |
|-------|---|
| 08:30 | Welcome and registration |
| 08:45 | Opening |
| 09:00 | WHYs and WHATs of organ on a chip? |
| 09:30 | Learn & Design*: Preparing organ on a chip (pre-experiment) |
| 10:30 | Break |
| 10:45 | Learn & Design*: Operating organ on a chip (experiment) |
| 11:45 | Expert lecture: Dr. Jianbo Zhang (University of Amsterdam) |
| 12:45 | Lunch |
| 13:45 | Hands-on: Operation of organ on a chip systems 1 |
| 16:00 | Break |
| 16:15 | Learn & Design*: Extracting data from organ on a chip (post-experiment) |
| 17:00 | Break |
| 17:15 | Hands-on: Operation of organ on a chip systems 2 |
| 18:35 | Closing |



***Learn & Design:** Engaging sessions where participants use the information from the lectures and design canvases, created and supervised by AZAR Innovations, to design their own organ on a chip assay.

| Time | Content |
|-------|---|
| 08:30 | Hands-on: Commercial lab session 1 |
| 11:00 | Break |
| 11:30 | Hands-on: Commercial lab session 2 |
| 13:00 | Lunch |
| 14:15 | Expert lecture: Dr. Joanne Donkers (TNO) |
| 14.45 | Organ on a chip challenge – final preparation |
| 16:30 | Organ on a chip challenge – final pitch |
| 18:00 | Closing |

