

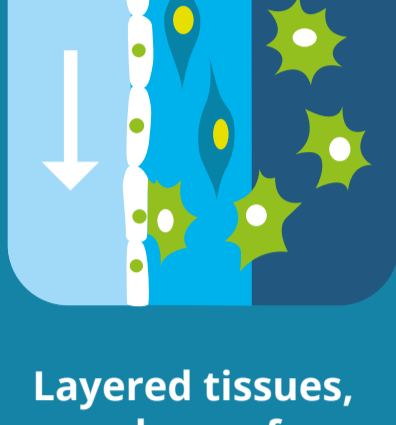
**The OrganoPlate® delivers stunning biology, in the most versatile and user-friendly organ-on-a-chip device ever**

Complex tissues. Surprisingly simple.

Enabling you to study complex 3D tissue biology in a simple device, that's our goal. With perfused vessels, co-culture and optimized microenvironments. So easy to use that you forget you're working with a highly advanced 3D culture platform. With the OrganoPlate®, we believe we've reached that goal. Say hello to the future of 3D tissue models.

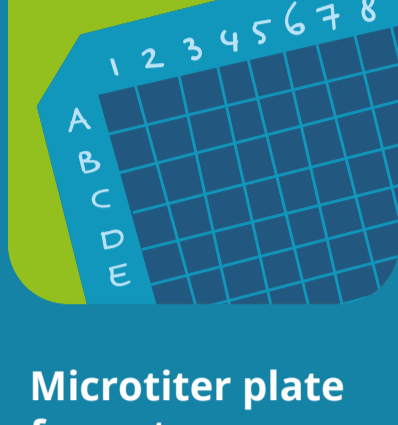
**Organ-on-a-Chip.Now™**

## 6 benefits of the OrganoPlate®



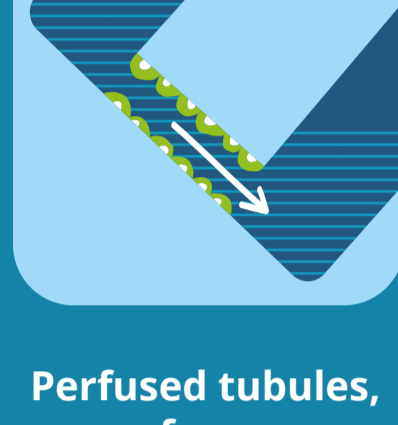
### Layered tissues, membrane-free

Culture layered tissues without artificial membranes between the cells and image them perfectly in a horizontal plane.



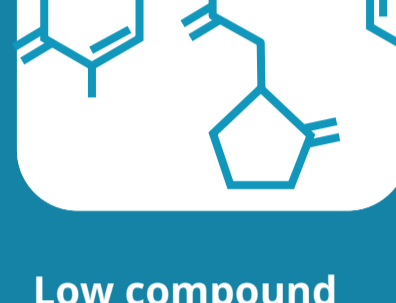
### Microtiter plate format

Up to 96 tissues on a single OrganoPlate® that fits your own equipment. Whether it's a pipette, microscope or high content reader.



### Perfused tubules, pump-free

Perfusion is essential for physiological relevance. In the OrganoPlate® it's effortless, contamination-free and incubator-friendly.



### Low compound absorption

Compounds should be in the cells, not in the plate. So, you will find only low-absorbing materials in the OrganoPlate®. You can rest assured.



### A plethora of readouts

Antibody staining, barrier integrity, transport, viability, to name a few. All with tested protocols in your own microscope, confocal or plate reader.



### One to thousands of cultures

Just a few tissues or many plates? Dilution series, replicas and controls, on a single plate? Use what you need, no limitations.

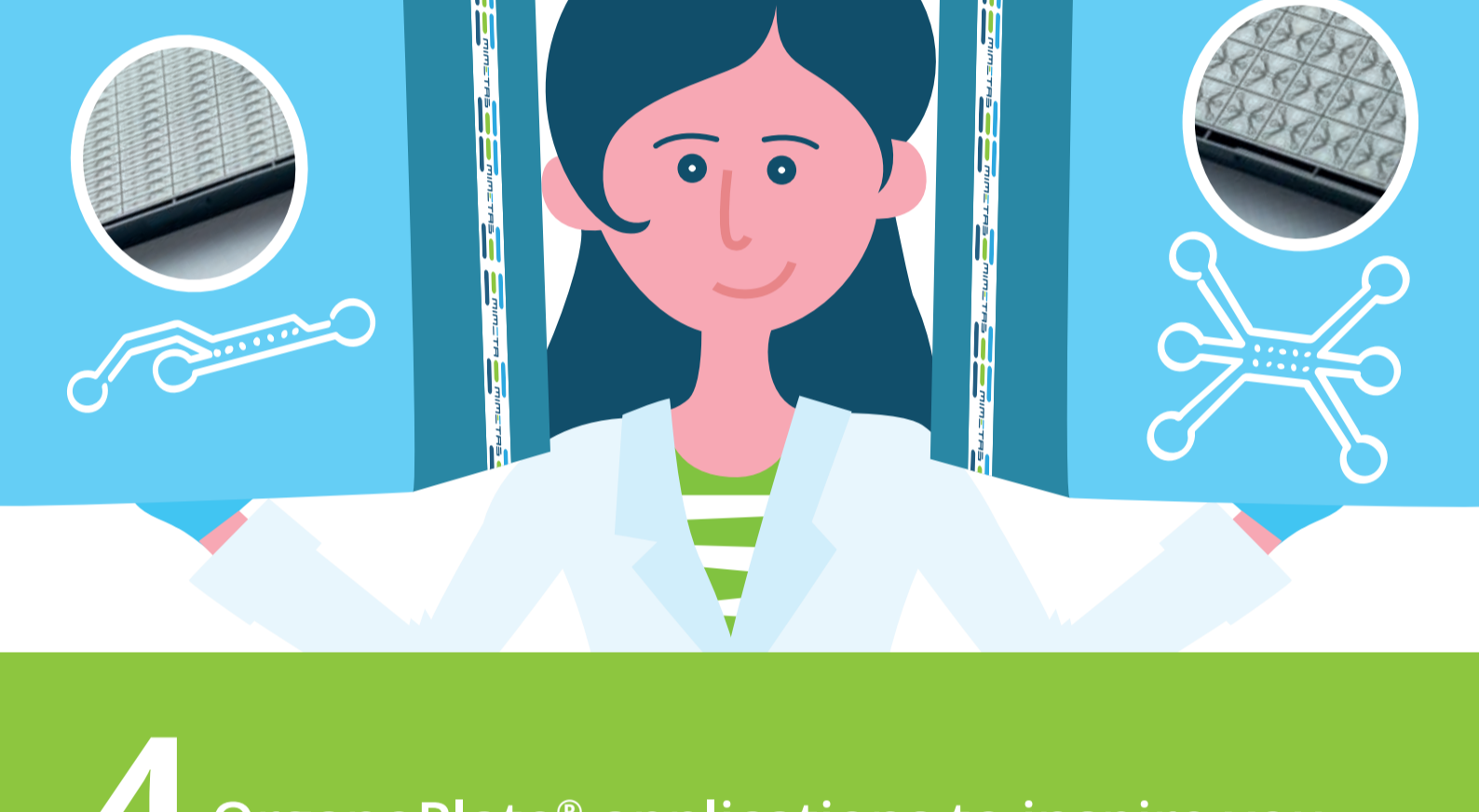
## 2 versatile designs to fit your needs

### OrganoPlate® 2-lane

- 1 lane with cells in ECM (ExtraCellular Matrix)
- 1 perfused tubule
- co-culture of cells in ECM and tubule
- 96 individual culture chips

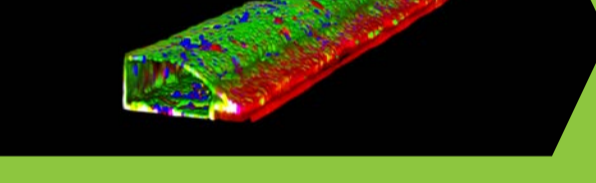
### OrganoPlate® 3-lane

- up to 2 lanes with cells in ECM
- up to 2 perfused tubules
- 6 different co-culture setups
- 40 individual culture chips
- transport and barrier integrity studies



## 4 OrganoPlate® applications to inspire you

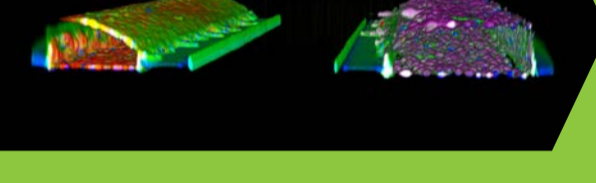
### Perfused intestinal tubules



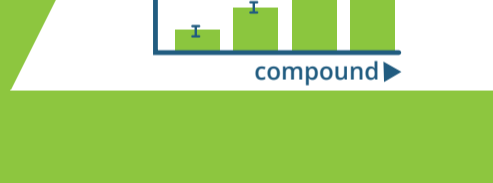
ECM-supported polarized, intestinal tubules for any-throughput assessment of toxicity & transport. Published in Nature Communications, Trietsch et al, 2017.



### Kidney proximal tubule-blood vessel



Polarized, perfused human renal proximal tubules in co-culture with endothelial tubules for nephrotoxicity, transport and renal clearance.



### 3D Neurovascular unit



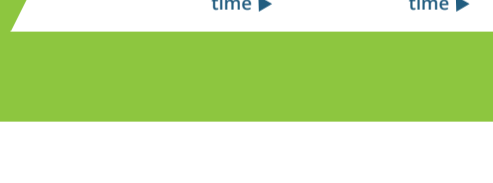
iPSC neurons, astrocytes and a perfused endothelial tubule for blood-brain barrier transport and CNS models.



### 3D neuronal activity



iPSC neurons and glia for single-cell resolution neuronal activity and compound evaluations. Published in Scientific Reports, Wevers et al, 2016

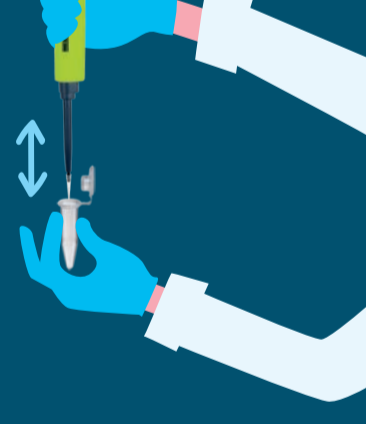


## 3 steps to set up your first model

It takes just three easy steps to set up 3D tissue models in the 2-lane OrganoPlate®

### Mix

Suspend primary or cultured cells in liquid ECM gel. You choose the cells and ECM. Be creative.



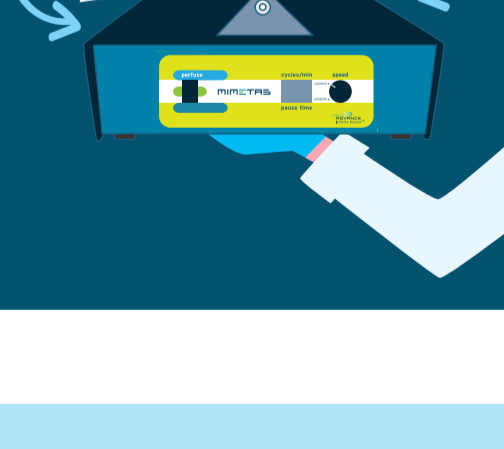
### Load

Pipette a microliter of cell-ECM suspension in the gel inlets of the OrganoPlate®. A full plate, or just one culture chip, it's up to you.



### Perfuse

Just add medium and put the OrganoPlate® in your incubator on a Perfusion Rocker™. And wait to see amazing biology.



## 1 workshop to kickstart your projects

Do you want to hit the ground running with the OrganoPlate®? Especially for academic researchers we organize a two-day lab workshop every month. You will learn everything there is to know about model development in the OrganoPlate®, directly from our experienced scientists. A very intensive learning experience, according to former participants. After the workshop, you get all protocols and two plates to take home. We think there's just no better way to start with organ-on-a-chip.

**Organ-on-a-Chip.Now™**

