ABOUT BLACK DROP

Black Drop is a biotechnology company that provides 3D-bioprinters, bioinks, tissues models and other bioprinting related products.

At the forefront of bioprinting innovation, our company is located in the heart of Europe, where our team is dedicated to advancing the field in ways that will improve people's lives.

Our approach to bioprinting is also designed with sustainability in mind, as we believe it is important to find alternatives to animal testing to ensure the well-being of all living creatures.

Since its inception, the company has collaborated with various customers from academia, pharmaceutical, and industrial labs to continually enhance its products and services, with the goal of creating life-saving solutions.

Black Drop mission is to support researchers and scientists enhancing their research outcomes through provision of the necessary tools to bioprinting the future, now!

CONTACT US

- Darmstadt, Germany
- Porto, Portugal
- Market And Antipack Antipa
- <u>bdbiomedical.com</u>

VASCULARIZED ORGAN-ON-A-CHIP

THE FIRST BIOPRINTING COMPATIBLE, VASCULARIZED ORGAN-CHIP



The integration of vascular networks in Organ-Chips offers a crucial step in creating realistic environments for advanced drug testing and disease modeling applications!

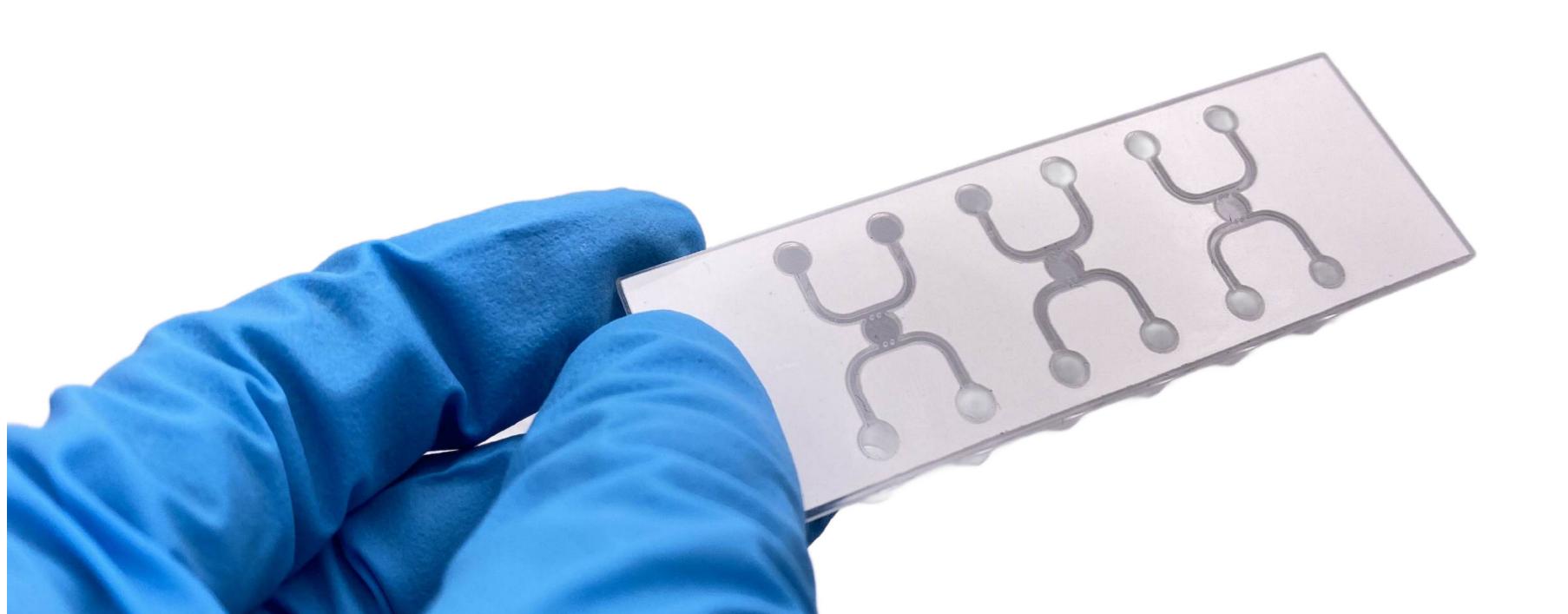


VASCULARIZED ORGANS-ON-A-CHIP (OOCS)

OOCs represent partial functions of living organs in a miniaturized form. They can be used for drug testing, toxicology and disease modelling. In order to provide a relevant microenvironment and enable nutrient supply as well as respiratory gas exchange, integration of vascular networks is a key step in OOC development.

BioVOC is the first bioprinting compatible, Vascularized Organ-Chip. It comprises a microfluidic arterial and venous flow system connected through a bioreactor chamber. Using a dedicated lid system, the chamber can be opened and closed to allow direct bioprinting of vascular beds as well as additional cell types, spheroids or parenchymal islands in between the arterial-venous loop.

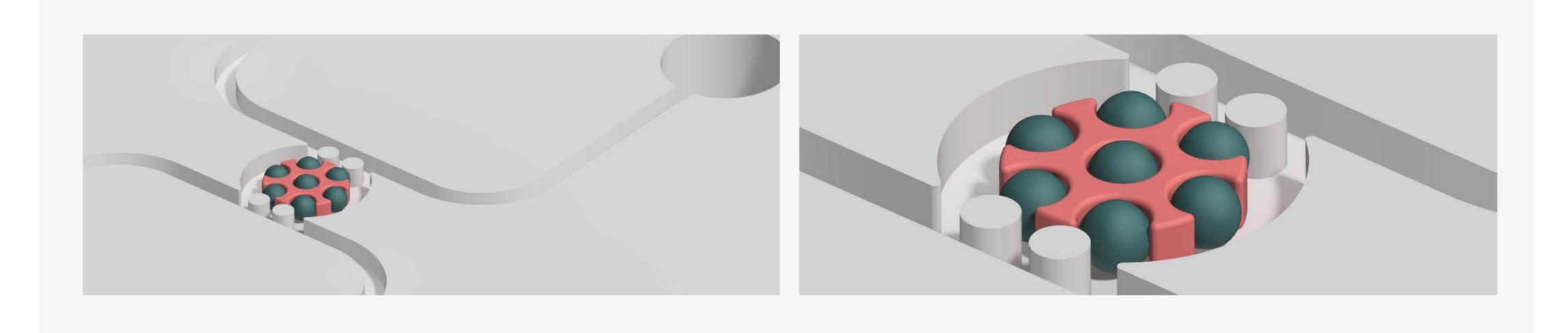
The innovative chip design enables unprecedented precision and flexibility in the design and biofabrication of Organs-on-a-Chip. In sum, it is a real game changer when it comes to in-vitro-screening assays and pharmacological research.



BLACK DROP BIOVOC

DESCRIPTION

- Quantity per Box: 3 pcs
- Surface Modification: None
- Channel Width: 500 µm
- Diameter of Central Chamber: 3 mm
- Chamber Height: 300 µm
- Number of Central Chambers: 3
- **Shape:** Typical microscopy slide format
- Open on the Bottom: Facilitates easy access and handling
- Closure: Sealed on the top with a lid and secured on the bottom with double-sided cytocompatible tape



Designed for ease of use and high performance, our microscopy slides allow for high-resolution imaging, ensuring you capture every detail with precision. Perfect for a range of applications in biological and medical research.

