Creative Biolabs®
Microfluidics

One-stop Microfluidic Solutions

MICROFABRICATION / DROPLET MICROFLUIDICS
LAB-ON-CHIPS / ORGAN-ON-A-CHIP

https://microfluidics.creative-biolabs.com/

MICROFLUIDICS

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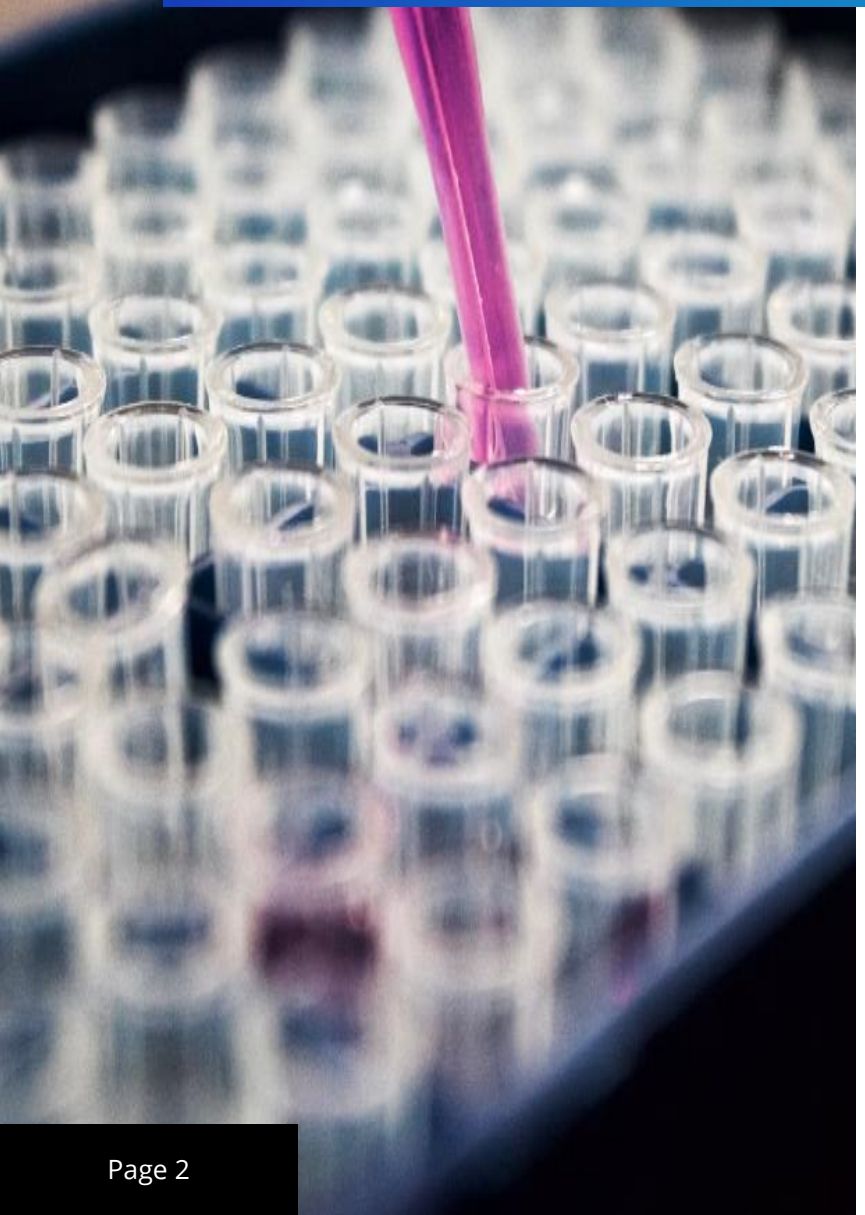
What Makes Creative Biolabs Excellent



Extensive Expertise:

With years of experience in microfluidics and biology, we have established collaborations with numerous educational institutions and enterprises, accumulating a wealth of project experience and successful case studies.

Customized Solutions:

We deeply understand our client's needs and provide personalized solutions to meet your experimental requirements to the maximum.

Comprehensive Project Contracting:

Have a good understanding of microfluidic technology but limited knowledge of biology? Intrigued by biology research but lack expertise in microfluidics? We facilitate collaboration among experts from various fields to provide technical support for any research questions.

Quality Control and Data Analysis:

We strictly adhere to a quality management system to ensure the accuracy and reliability of experimental results, and we provide detailed data analysis reports.

We offer our customers with one-stop-shop of microfluidics research and evaluation, including microfluidic chip design and manufacture, microfluidic chip products, as well as personalized solutions.

Creative Biolabs Helps You With:

- Microfabrication
- Droplet Microfluidics
- Lab-on-Chips
- Organ-on-A-Chip
- Research Contracting

MICROFLUIDICS

Microfabrication

An exceptional and stable chip is the fundamental cornerstone for the success of any microfluidic experiment, while customizability stands as the greatest advantage of microfluidic chips. We specialize in providing our clients with high-quality and innovative solutions for microfluidic chips, catering to a wide range of biological analysis and experimental requirements.

Microfluidic Chip Design:

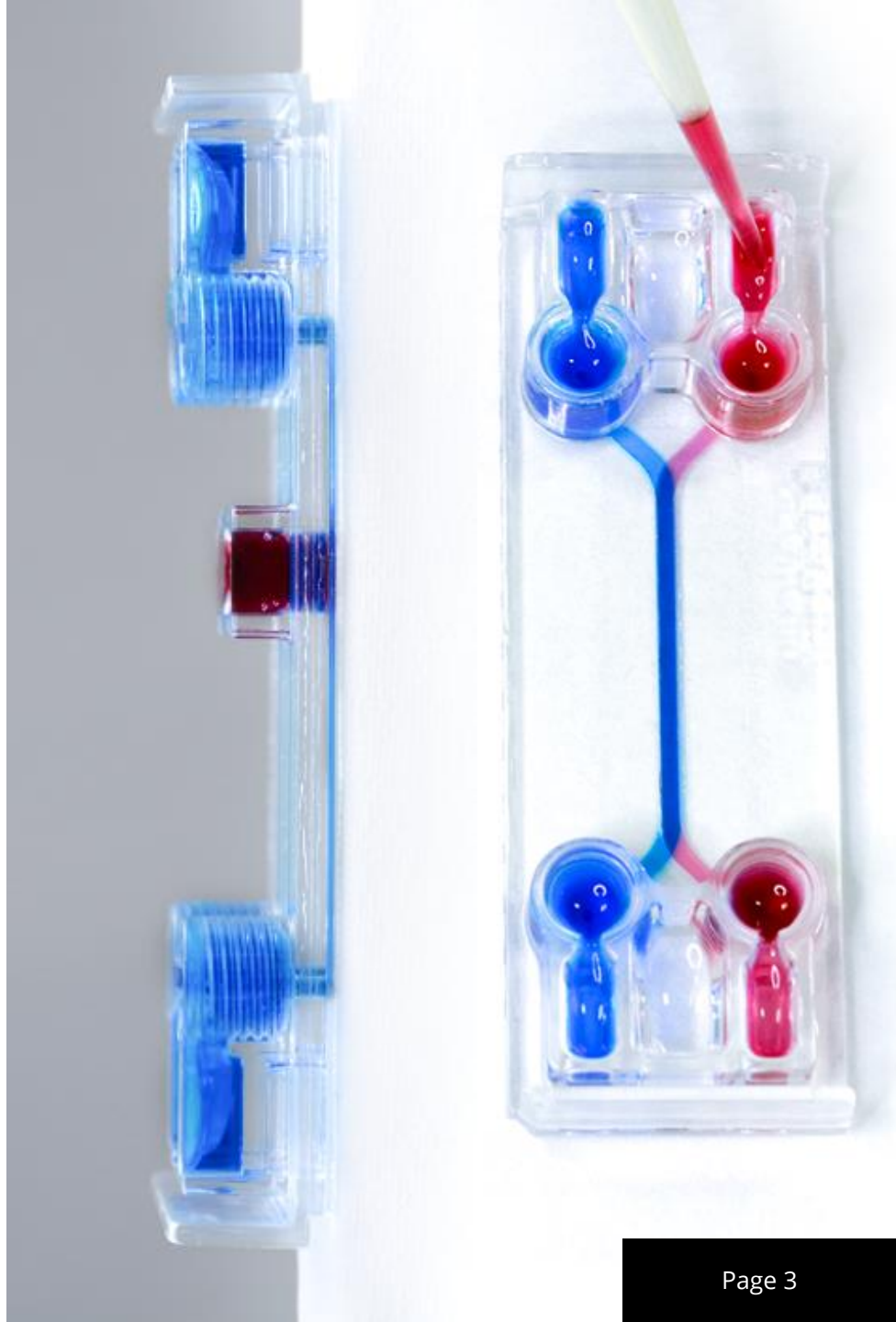
Our team of experienced and professional designers is capable of delivering customized chip design services tailored to your specific needs, experimental plans, and application scenarios.

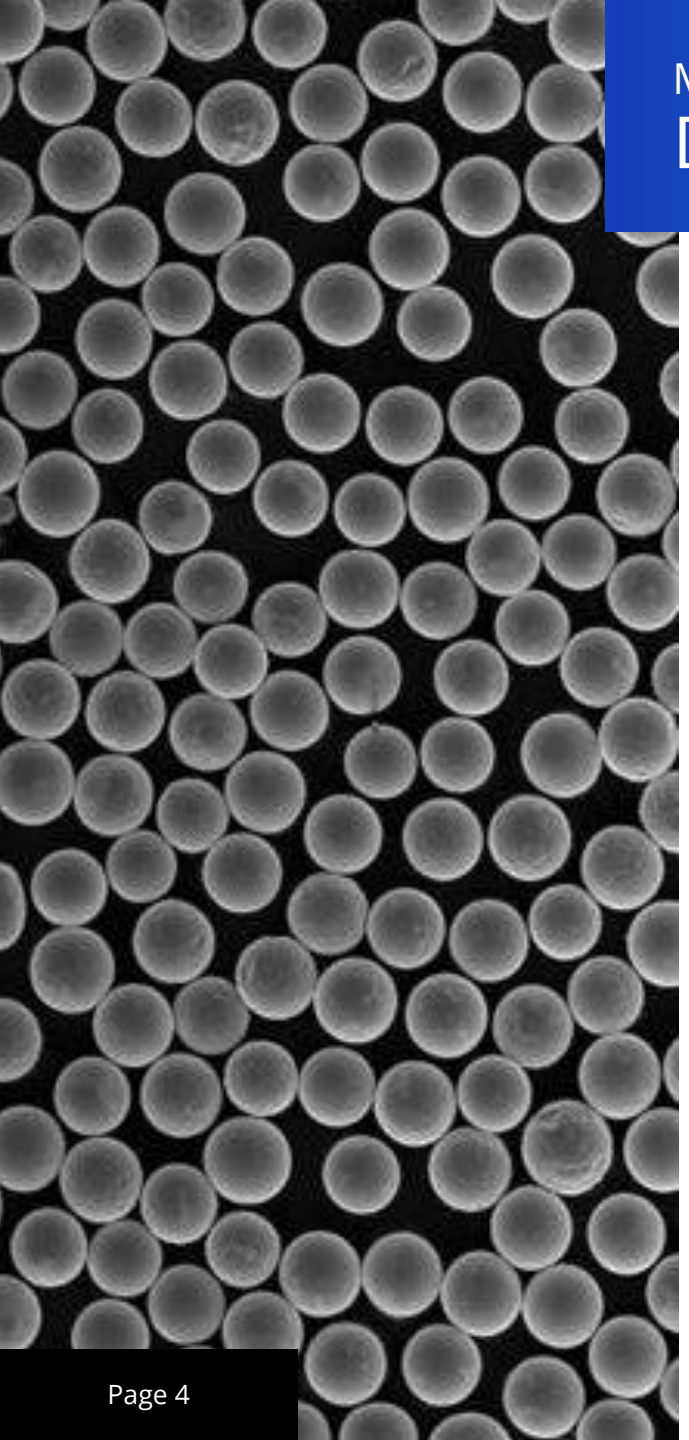
Microfluidic Chip Fabrication:

Whether you are contemplating large-scale production or small-scale prototyping, the precise channel dimensions and excellent fluid performance will ensure the accuracy and reliability of your experimental outcomes.

Prototype Validation:

Our rapid prototyping technology provides a convenient and cost-effective choice for conducting your research using either elastomeric materials, thermosetting materials, or glass, depending on your preferences for stability. We also offer economical validation of the functionality, structure, and stability of your chip to optimize your research outcomes.





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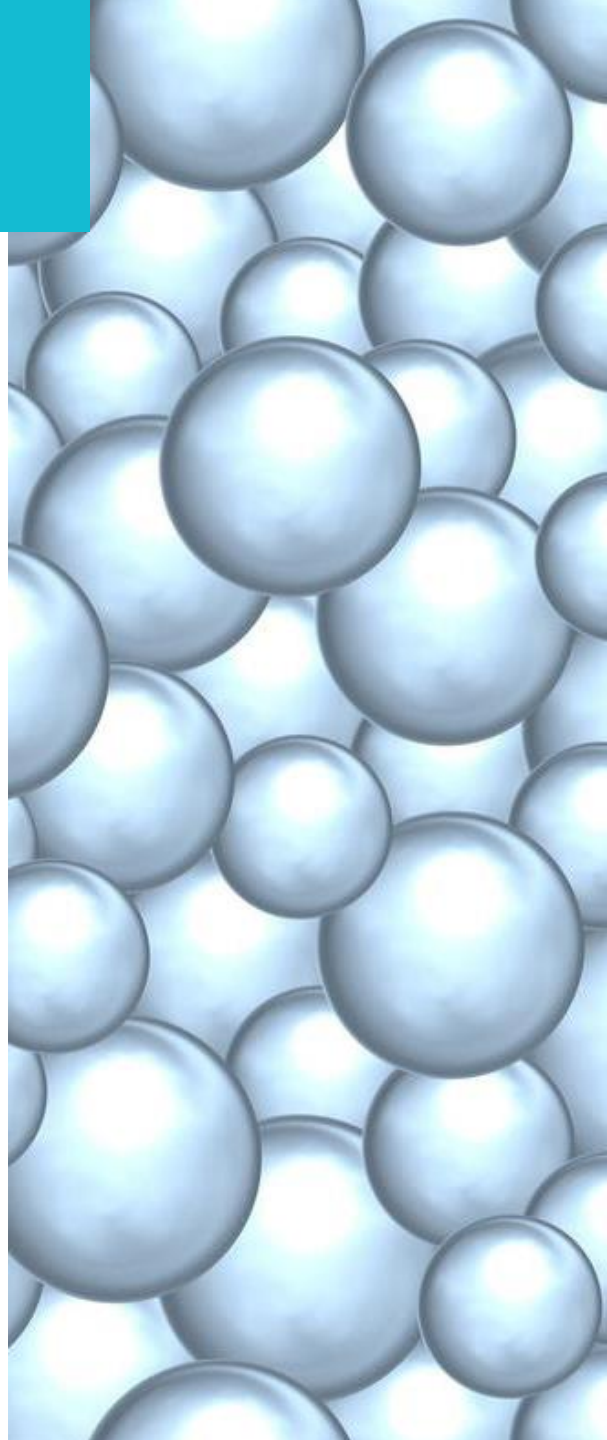
Droplet Microfluidics

Creative Biolabs specializes in providing stable, comprehensive services related to microdroplets for scientists worldwide. You can confidently entrust us with every step essential to your research, from chip design, droplet generation, high-resolution imaging, to downstream analysis. By choosing us, you opt for rapid and flawless results delivery.

Our Services:

- Double emulsion droplets,
- Hollow thin-shell polymer microspheres,
- 3D cell culture,
- Single-cell encapsulation,
- Barcoded hydrogel microsphere,
- PLGA, PCL, PAM microspheres,
- Microbubble preparation,
- Sodium alginate microspheres,
- Drug encapsulation,
- Controlled degradation microspheres,
- Digital microfluidics,
- *In-situ* optical analysis,
- Continuous production and capture of droplets,
- ...



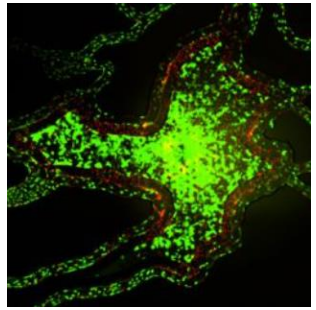
MICROFLUIDICS

Lab-on-Chips

Microscale solutions are advanced and efficient analytical tools for the fields of life sciences, diagnostics, analytical sciences, and chemistry. Drawing on our extensive experience in the field of biological sciences and expertise in microfluidics, we are fully prepared to take your research to new heights.

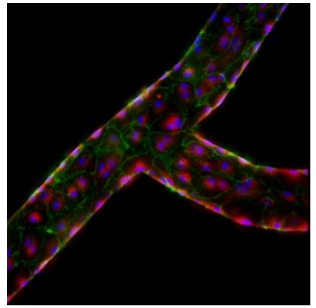
One-Stop Solution:

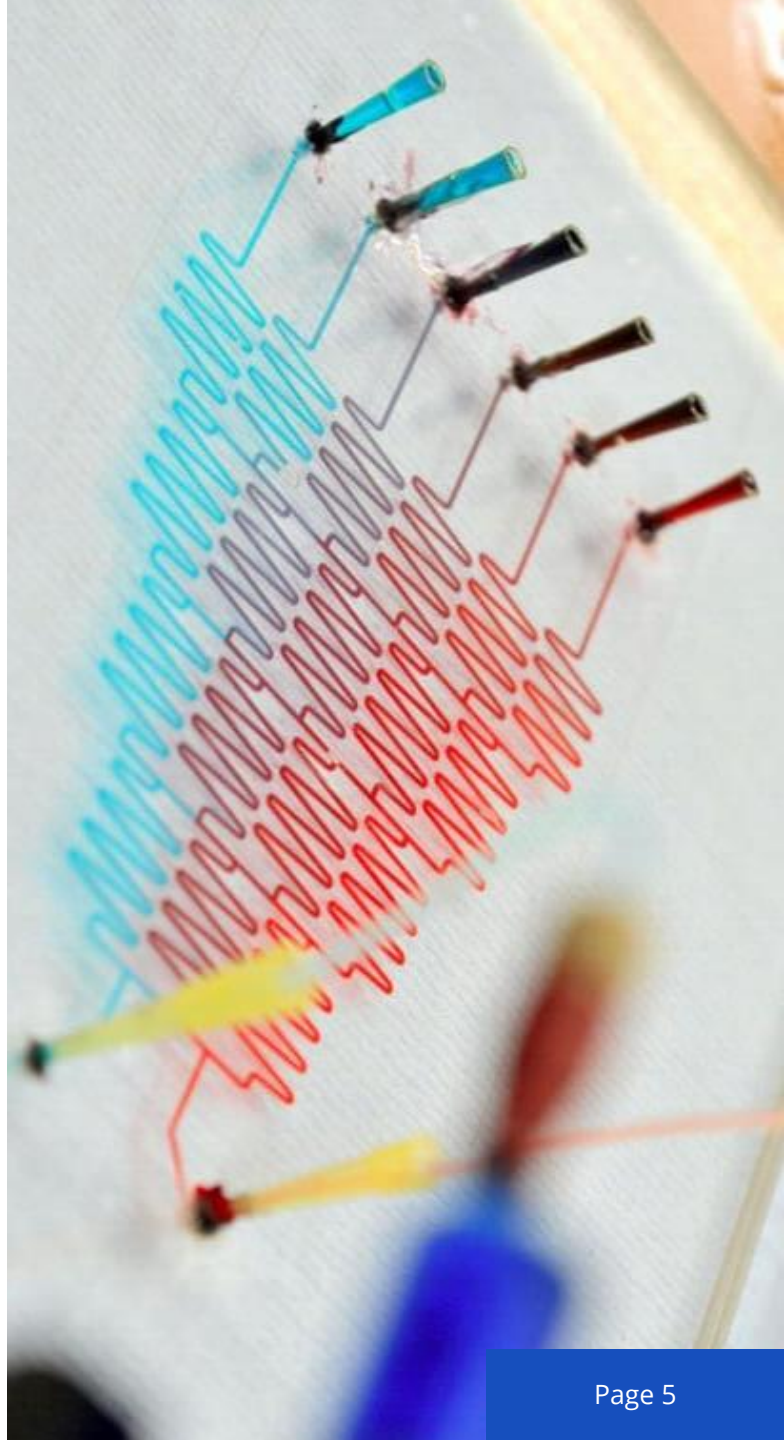
We provide comprehensive solutions and full-scale research contracting, eliminating the need for your research institution to invest in expensive microfluidic equipment or biosensing instruments.



Highly Experienced Experts

Our team of experts is capable of addressing any microfluidics or biology-related questions you may have in the fields of molecular diagnostics, biomolecules, immunological assays, environmental analysis, drug development, toxicity testing, cell culture, personalized medicine...





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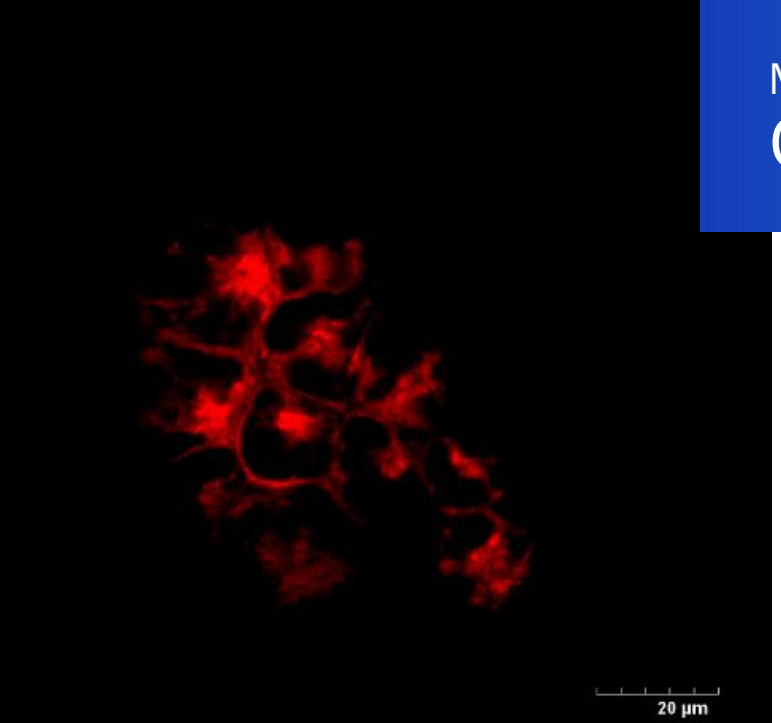
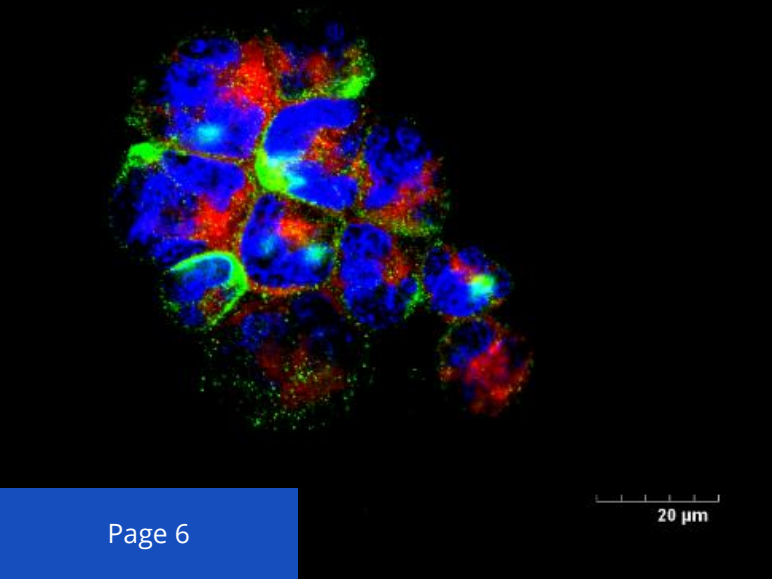
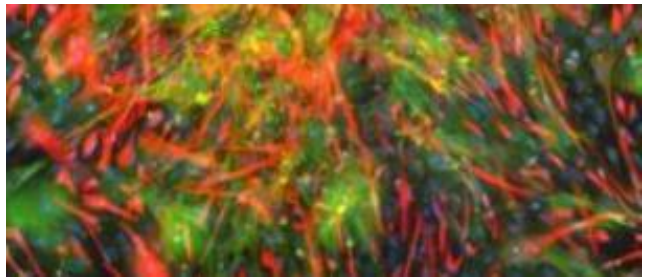
Organ-on-A-Chip



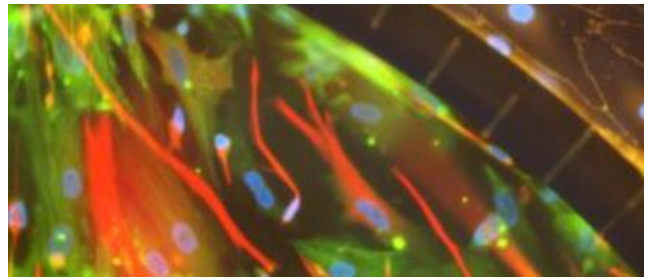


Organ-on-a-chip has wide applications in research fields such as drug screening, toxicity assessment, and disease modeling. We have a dedicated technical team and advanced manufacturing processes to provide customized organ-on-a-chip design, fabrication, and validation services.



Alternative to Animal Models

We offer ready-to-use organ-on-a-chip products for direct experimentation. These products have undergone comprehensive validation and assessment, providing stable tools for modeling and characterizing *in vivo* organs.



Breaking The *in Vitro* Impasse

You can eliminate the need for investing in complex microfluidic equipment and instead receive reliable research data reports directly through our project contracting services for organ-on-a-chip studies. Our expertise ranges from chip design and disease modeling to cell culture, drug screening, and downstream analysis.

MICROFLUIDICS

From Idea to Implementation

01

Requirements and Planning:

Communicate your research needs and goals with our experts. Based on your requirements, we will conduct project planning to ensure the achievement of expected research outcomes.

02

Experimental Design and Optimization:

Our professional team will design and optimize microfluidic experimental plans for you based on your research objectives and sample characteristics.

03

Prototype Manufacturing and Optimization:

Before conducting formal experiments, we can assist you in manufacturing prototypes of microfluidic chips with testing and optimization.

04

Sample Handling and Preparation:

We can assist you in pre-processing samples, such as cell culture, DNA/RNA extraction, drug dilution, *etc.*

05

Molecular Biology Analysis:

If you need molecular biology analysis (PCR amplification, gene sequencing, protein detection, *etc.*), we provide relevant experimental and technical support.

06

Data Analysis:

We will collect the data using appropriate sensors and devices according to your requirements. Subsequently, our team will analyze and interpret the data, providing you with comprehensive reports and result explanations.

07

Results Reporting and Interpretation:

Upon project completion, we will provide you with detailed reports on the achievements, including the experimental process, data analysis, and conclusions.

USA

SUITE 203, 17 Ramsey Road, Shirley,
NY 11967, USA
Tel: 1-631-357-2254
Email: info@creative-biolabs.com

UK

167-169 Great Portland Street, 5th
Floor, London, W1W 5PF
Tel: 44-207-097-1828
Email: info@creative-biolabs.com

Germany

Gebäude G830, Industriepark Höchst,
65926 Frankfurt am Main
Tel: +49 69 50955297
Email: info@creative-biolabs.com