

WE SUPPORT RESEARCH AT THE GLOBAL FOREFRONT OF SCIENCE



DATASHEET_3D-BIOPRINTER_3DDiscovery™ Evolution



Tissue engineering, regenerative & personalized medicine, pharma, medical device industry, cosmetics, drug discovery, and many other applications are using our technology to their advantage.

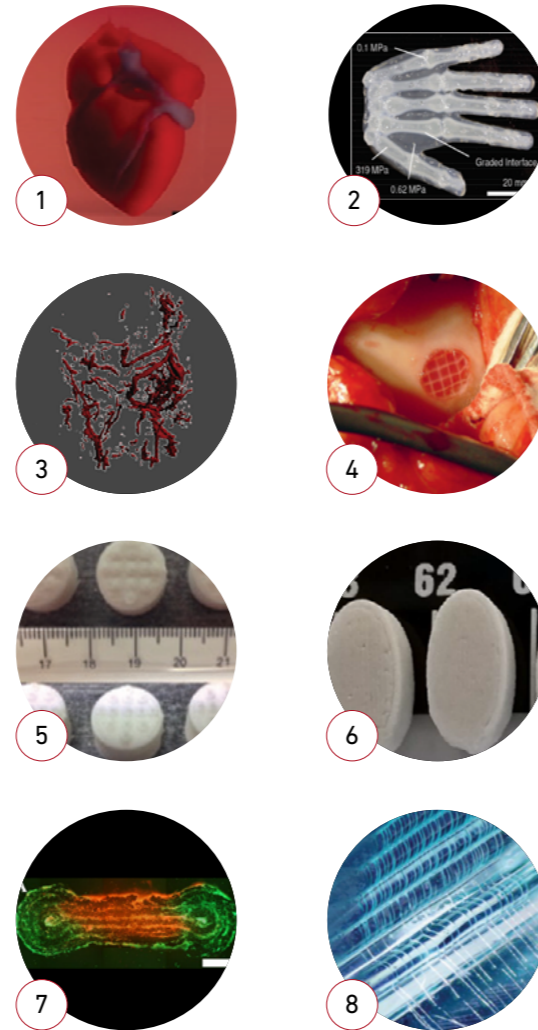
Discover scientific publications using regenHU 3D bioprinters:

> regenhu.com/applications/PUBLICATIONS

APPLICATIONS EXAMPLES

- Personalized organs ¹
- Bioinspired-constructs ²
- Vascularization ³
- Cartilage tissue engineering ⁴
- Controlled-delivery ^{5,6}
- 3D models for drug discovery ⁷
- Micropatterning ⁸

- ¹ Noor et al. Advanced Science. 2019. PMID: 29432987
- ² Kokkinis et al. Advanced Materials. 2018. PMID: 29337394
- ³ Daly et al. Biomaterials 162. 2018, 34-46 PMID: 29432987
- ⁴ Mancini et al. Tissue Eng Part C Methods. 2017; 23, 804-814
- ⁵ Charbe et al. Int J Pharm Investig. 2017. 7, 47-59 PMID: 28929046
- ⁶ Khaled et al. Int J Pharm 538. 2018. PMID 29353082
- ⁷ Latenser et al. SLAS Technol. 2018. PMID: 29895208
- ⁸ Ruijter et al. Adv Healthc Mater. 2019. PMID: 29911317



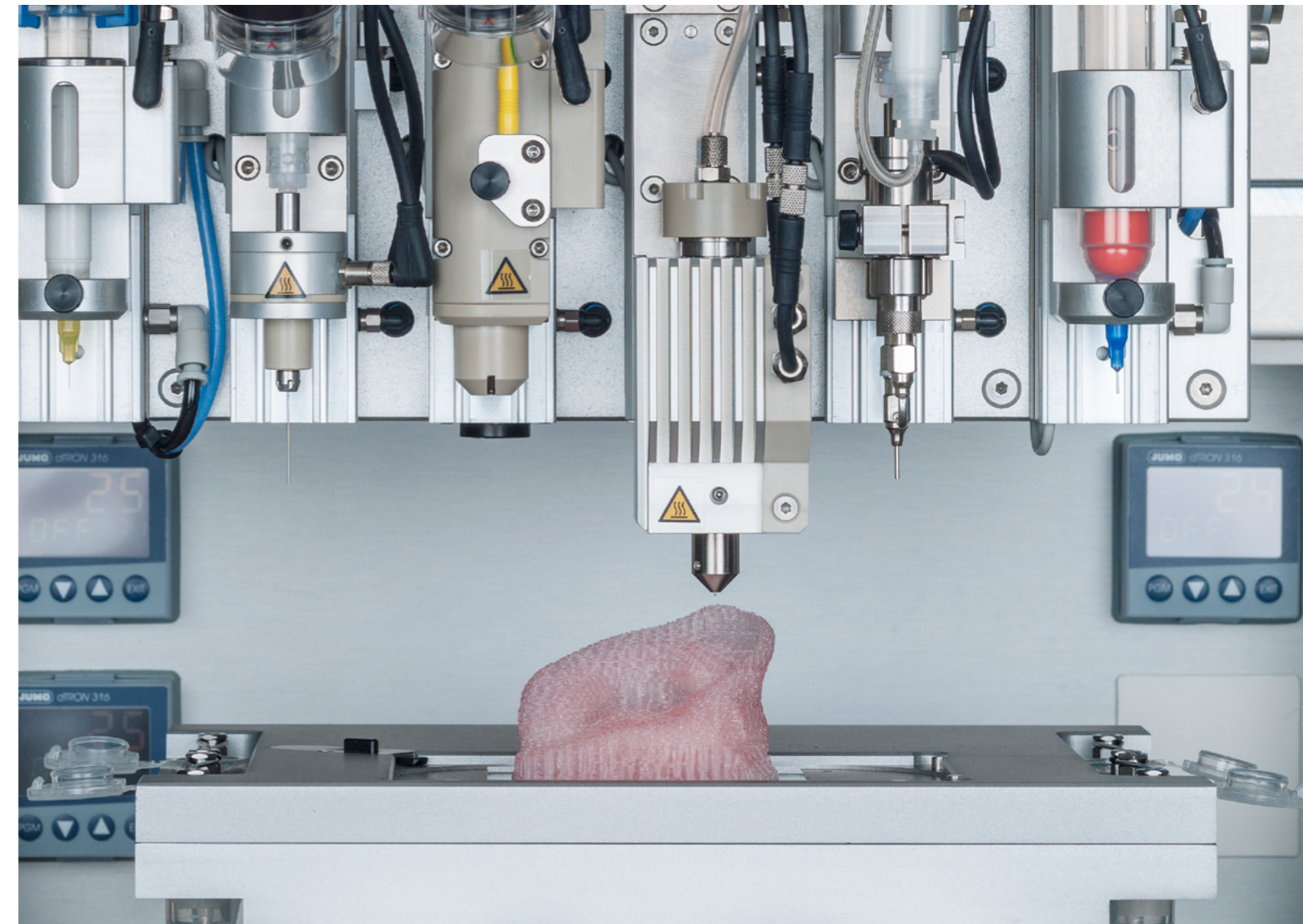
MATERIAL CANDIDATES EXAMPLES

- Biologics: Cells, growth factors, proteins
- Natural & synthetic hydrogels
- Thermoplastics
- Decellularized ECM bioinks
- Conductive inks
- Pastes, ceramics
- ...
- Your material.

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3DDiscovery™ Evolution

Create your own configuration



TEST OUR TECHNOLOGY PRINT YOUR MATERIALS

Our **Bioprinting Academy** is receiving praise from scientists around the world. To book a timeframe, please visit:

> regenhu.com/bioprinting-academy/RESERVE-YOUR-DATE



FLEXIBILITY

EVOLUTIVE OVER TIME

ACCOMMODATES 6 PRINTHEADS

TECHNOLOGY CONVERGENCE

MODULARITY

CUSTOMIZATION



YOUR NEEDS ARE UNIQUE, SO ARE OUR BIOPRINTING SOLUTIONS

THE MOST FLEXIBLE 3D BIOPRINTER

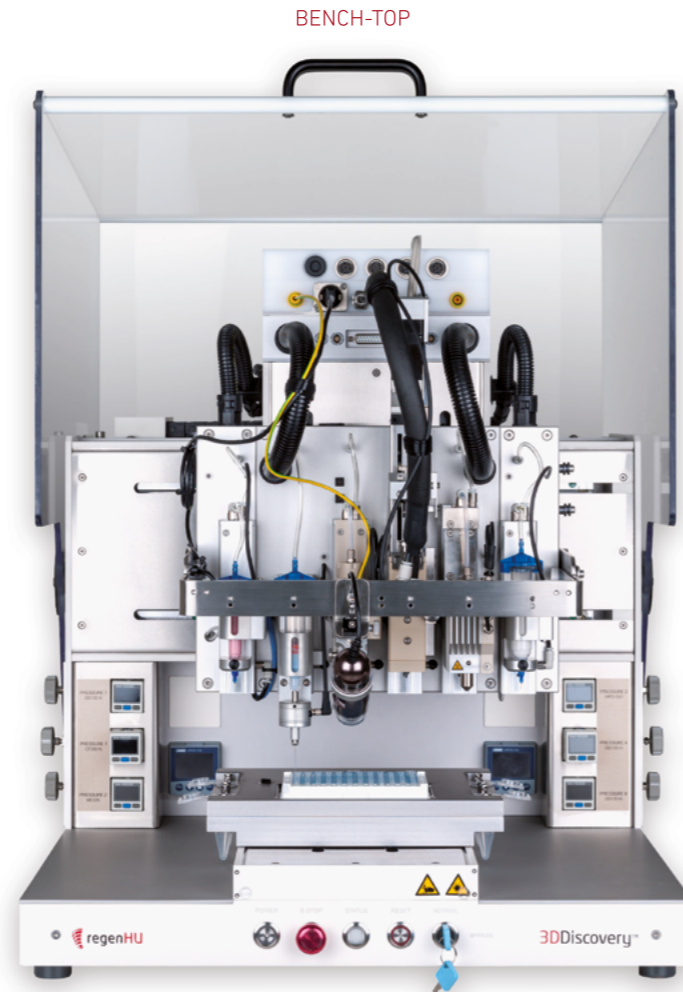
Intended for both experienced scientists and those who are taking their first steps in 3D bioprinting.

EVOLUTIVE OVER TIME

Our 3D bioprinter will accompany your scientific journey while constantly adapting to new needs. Start with the base unit and finetune it as your research progresses.

ACCOMMODATES 6 PRINTHEADS

Among numerous printing technologies available, six can be installed and used simultaneously to build multimaterial and multicellular 3D constructs.



TECHNOLOGY CONVERGENCE

The combination of extrusion (inkjet, pneumatic, piston-driven, thermoplastic dispensing) and electrospinning writing (melt or solution) provides unprecedented control at the micro-nano scale.

MODULARITY

Several accessories such as class II biosafety cabinet, climate control units, light sources for photoinitiated gelation, plasma pens, nebulizers, individual temperature control systems, or cameras for inline monitoring can be integrated.

CUSTOMIZATION

Our dedicated team will engineer solutions tailored to your specific needs.

THE MOST INTUITIVE & ADVANCED SOFTWARE TOOLS

- Bioprinting Suite
- BioCAM™
- BioCUT™
- BioCAD™



> The suite is optimized to exploit the full potential of our 3D bioprinter.

> regenhu.com/3d-bioprinters/SOFTWARE

NATURAL & SYNTHETIC HYDROGELS

- ECM BioInk™
- OsteoInk™
- STARK™



> We offer a complete portfolio of bioinks for soft / hard tissue engineering and drug discovery.

> regenhu.com/BIOMATERIALS

ACCESSORIES & CONSUMABLES

- Valves
- Cartridges
- Needles
- Nozzles



> A large array of consumables and accessories are available to ensure reproducible results.

> regenhu.com/CONTACT

HIGH QUALITY SUPPORT AROUND THE WORLD

- Installation
- Technical support
- Maintenance
- Trainings



> Learn more about our training modules and technical assistance.

> regenhu.com/SUPPORT

“ One particularly strong impression was the mutual interest in developing new materials, technology and methods to solve new challenges, and how regenHU uses the work and feedback from customers and research partners to improve their products. ”

> regenhu.com/3D-BIOPRINTERS

