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Abdelaziz Bouali Senior Sales Executive – Bioprinting abo@cellink.com Pierre-Alexandre Laurent, PhD Senior Field Application Scientist pal@cellink.com BIOLOGY + TECHNOLOGY

Bio Convergence is the future of health.



Instruments in 65+ countries 9,500+

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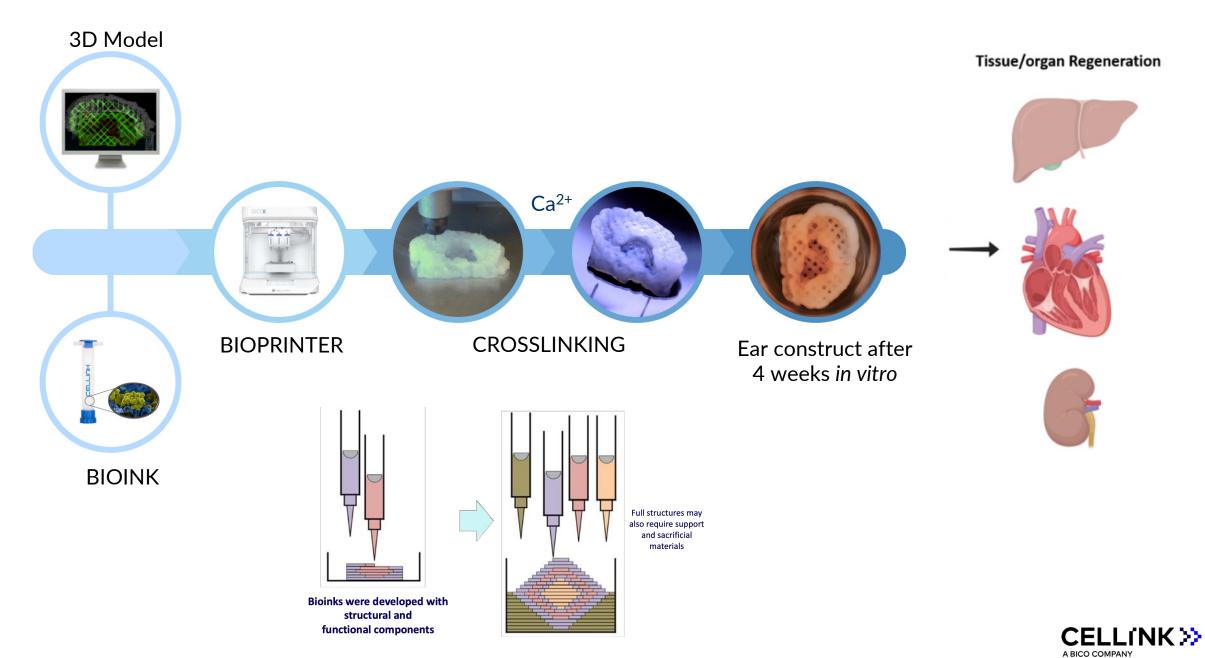
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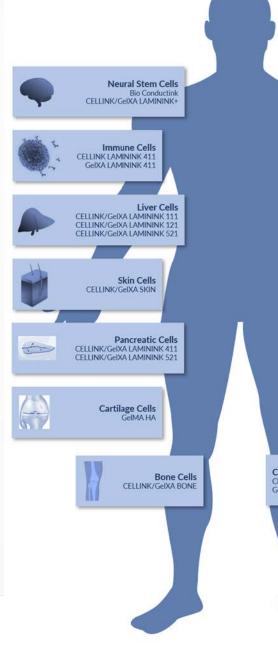
BIOMATRIX

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BIOPRINTING







Cardiac Cells

Bio Conductink

Kidney Cells CELLINK/GelXA LAMININK 111 CELLINK/GelXA LAMININK 121

Intestinal Cells CELLINK LAMININK 111 GeiXA LAMININK 111



Cancer Cells CELLINK LAMININK 111 GelXA LAMININK 111

> Universal Bioinks CELLINK Bioink • GelMA • GelMA A • GelMA C • GelMA HIGH • Coll 1 • ColMA • GelXA • GelXG • CELLINK A • CELLINK RGD

Tissue Engineering Kits

Direct application, consistent models

Advanced Bioinks

Tissue-specific biomaterials, case studies

Standard Bioinks

Basic bioinks, ready-to-use products

Stock Solutions

Consistent stock solutions, defined properties

Concentrated Components

Raw materials, accessories, basic tools



OUR BIOPRINTING TECHNOLOGIES

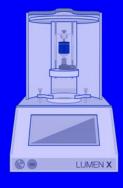
EXTRUSION-BASED





- Pressure-based prints
- Cartridge and syringe dispensing
- Successive filaments/droplets
- Crosslinking post-bioprinting

LIGHT-BASED



- Optics-based prints (UV)
- Resin bath
- Successive layers/points
- Crosslinking while bioprinting





3D BIOPRINTING OF VASCULARIZED SKIN

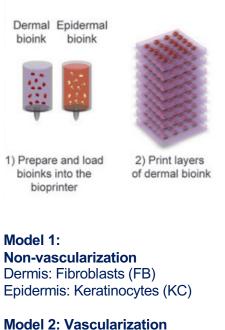
Three Dimensional Bioprinting of a Vascularized and Perfusable Skin Graft Using Human Keratinocytes, Fibroblasts, Pericytes, and Endothelial Cells

Tânia Baltazar, PhD,¹ Jonathan Merola, MD, PhD,² Carolina Catarino, MS,^{3,4} Catherine B. Xie, MS,¹ Nancy C. Kirkiles-Smith, PhD,¹ Vivian Lee, PhD,⁵ Stephanie Hotta, MS,⁶ Guohao Dai, PhD,⁵ Xiaowei Xu, MD, PhD,⁷ Frederico C. Ferreira, MBA, PhD,⁸ W. Mark Saltzman, PhD,⁹ Jordan S. Pober, MD, PhD,¹ and Pankaj Karande, PhD^{3,4}

V

3) Incubate

at 37°C

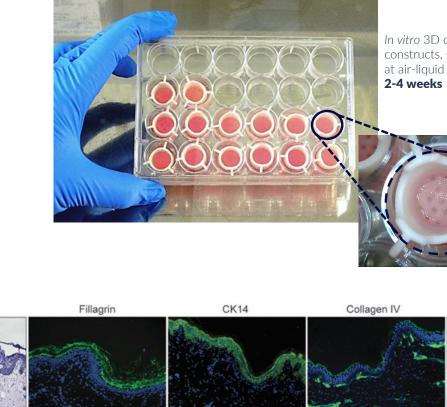


Dermis: FB + Endothelial cells (EC) + Pericytes (PC) Epidermis: Keratinocytes (KC)



4) Print layers

of epidermal bioink

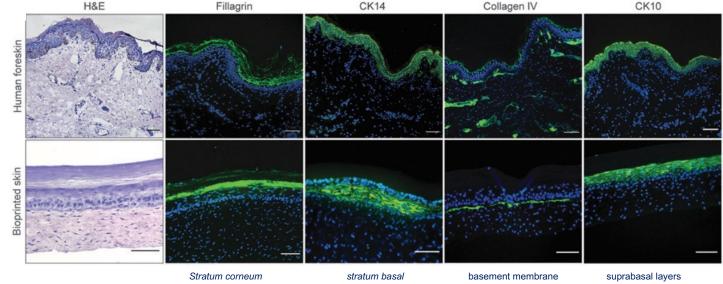


In vitro 3D culture of constructs, submerged and at air-liquid interface, for



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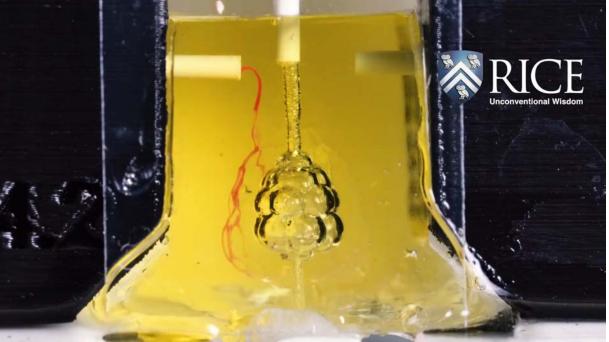
LUMEN X+ : HIGH RESOLUTION DLP-SLA

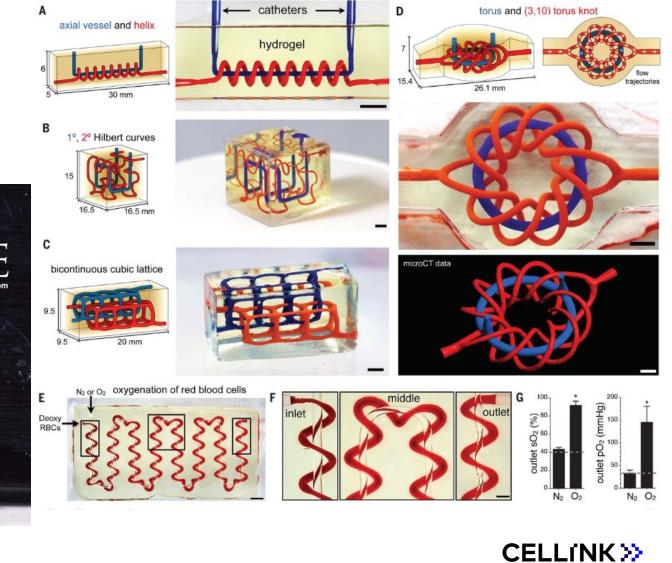


BIOMEDICINE

Multivascular networks and functional intravascular topologies within biocompatible hydrogels

Bagrat Grigoryan^{1*}, Samantha J. Paulsen^{1*}, Daniel C. Corbett^{2,3*}, Daniel W. Sazer¹, Chelsea L. Fortin^{3,4}, Alexander J. Zaita¹, Paul T. Greenfield¹, Nicholas J. Calafat¹, John P. Gounley⁵[†], Anderson H. Ta¹, Fredrik Johansson^{2,3}, Amanda Randles⁵, Jessica E. Rosenkrantz⁶, Jesse D. Louis-Rosenberg⁶, Peter A. Galie⁷, Kelly R. Stevens^{2,3,4}[‡], Jordan S. Miller¹[‡]





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APPLICATION Notes TECHNICAL Notes

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