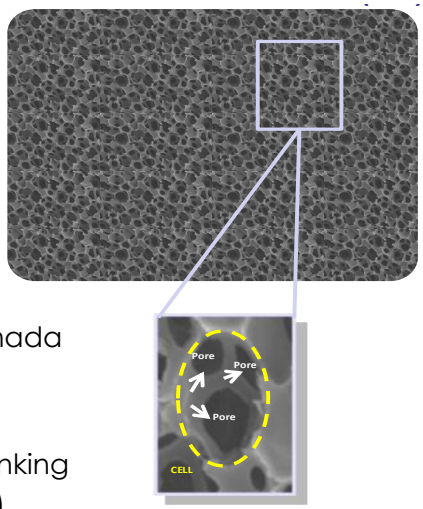
Biomerix 3D Scaffold™

The **Biomerix 3D Scaffold™** is designed to mimic the nature and function of the extracellular matrix (ECM) for stem cell research and therapeutic applications in regenerative medicine

Biomerix 3D Scaffold™ (SEM 23X)



- **Chemical Formulation**
  - Polycarbonate polyurethane-urea thermoset chemistry
- **Fully Accessible Morphology**
  - Interconnected 3D network of cells and pores
  - Open-cell, reticulated structure with void content of >90%
- **Demonstrated Biocompatibility with Multiple FDA Clearances**
  - Full panel of ISO 10993 biocompatibility testing completed
  - Four devices cleared by U.S. FDA, European Union, and Canada in soft tissue repair, orthopedics, and vascular applications
- **Ideal Platform for Stem Cell Therapy & Regenerative Medicine**
  - Applications in drug discovery, tissue engineering, & cell banking
  - Compatible with Hematopoetic (HSC), Mesenchymal (MSC), Human Embryonic (hESC), and Induced Pluripotent Stem Cells (iPS)

Biomerix 3D Scaffold™ Features & Benefits

Features	Mimic *In-Vivo* Conditions	Enhance Cell Viability	Promote ECM Synthesis	Optimize 3D Cell-ECM Interactions	Provide Stable Environment	Support Cell Differentiation	Maximize Throughput
Biostable Polyurethane Chemistry					✓		✓
Interconnected 3D Network of Cells & Pores	✓	✓	✓	✓		✓	✓
High (>90%) Porosity	✓	✓	✓	✓		✓	✓
High Surface Area to Volume Ratio	✓	✓	✓	✓		✓	✓
High Affinity for Proteins & Peptides	✓	✓		✓		✓	✓
Reproducible-High Volume Manufacturing Process		✓		✓	✓	✓	✓
Biocompatible	✓	✓	✓	✓	✓	✓	✓

BIOMERIX™
Structured for Life.