LifeNet Health’s LifeSciences Division is offering an early access opportunity to partner in the development of our advanced 3D human microtumor bioassay service. Partners provide client-furnished cells or cell lines that will form microtumors using our unique Extracellular Matrix (ECM), HuBiogel™ — a natural, human-derived ECM that mimics the biology and micro-environment of human tissues.

**Advantages of LifeNet Health’s 3D Microtumor Bioassay:**

- Mimics the tumorigenesis process *in vitro*
- Replicates *in vivo* like heterogeneous colony formation
- Allows for precise control of micro-environment

**Potential Applications:**

- Investigations of tumor angiogenesis, hypoxia, and invasion
- Testing model for chemotherapeutic drug candidates
- Cellular studies complementing genomic and proteomic profiling and assessing biological activities of macromolecules
- Useful for primary cells, cell lines, or cells from patient-derived xenografts

![Day 1 Day 7 Day 14](image)

Microtumors produced by embedding human colon tumor cells (HT-29) in HuBiogel.

This ECM is produced under controlled conditions from pooled, pathogen-free human amnions. The 3D human microtumor bioassay comes in a 96-well format suitable for robotic handling and robust analysis.

**Key Components of HuBiogel:**

- Collagen-I
- Laminin
- Collagen-IV
- Collagen-III
- Entactin
- Heparan Sulfate Proteoglycan

**References**


For more information, please contact us at 800-847-7831 or cells_tissues@lifenethealth.org.