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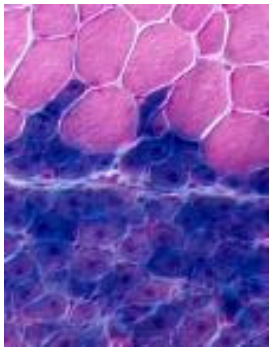
LabBio Technology

QUINTECH LIFE SCIENCES

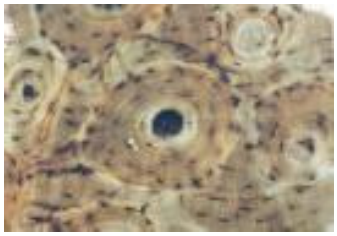
TisXell

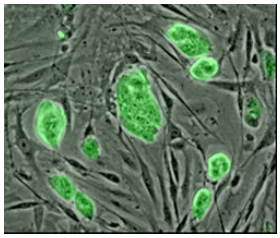
QuinXell's unique **TisXell Regeneration System** offers an optimal condition for *high growth*, *high proliferation, and better differentiation* of cell cultures compared to conventional methods. TisXell controlled environment provides optimal nutrients and gases to growing cells, and triggers cellular mechano-transduction signalling pathways to stimulate tissue remodelling onto a 3D scaffold.



The TisXell is especially suitable for culturing:

- Primary Cells
- Stem Cells
- Bone Cells
- Muscle Cells
- And many more





Advantages of the TisXell Regeneration System:

• Patented biaxial revolution in two independent orthogonal axes (spin and tumble simultaneously)

• Flexible operational modes available – biaxial, uniaxial, swing modes

• Efficient fluid transport within the 3D scaffolds, allowing optimal nutrients and waste exchange to and from the cells, penetrating the deepest core of the scaffolds

• Spherical design of vessel reduces drag and promotes uniform fluid mixing

• Promotes integration of implants with surrounding tissue and support the structural integrity in regeneration of tissues and/or organs

• Reduces formation of necrotic neotissue that interferes with subsequent implantation process

• Accelerates cell growth, differentiation and cell proliferation, mimicking native extracellular matrix (ECM)

• Supports homogenous cell culture at the surface and core of the 3D scaffolds

• Maintains functionality and viability of tissue constructs

Please contact us for more information!