

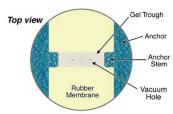
FX-6000™ Tissue Train® Culture System(FX-6000TT)

3D cell culture in a gel matrix with or without cyclic uniaxial tension.

- ➤ Stand-alone culture system to create 3D geometries for cell culture in a matrix gel or allows the cells to build a self-assembled matrix that connects to the anchors in a **Tissue Train® culture plate** (page 21).
- ➤ Utilizes regulated vacuum to deform cells cultured on flexible-bottomed culture plates.
- > Simulate *in vivo* tissue strains and frequencies in various cells.
- Contains state-of-the-art digital valve to automatically regulate and maintain vacuum to provide the specified strain regimen.
- Multiple frequency, amplitude and waveform changes can be programmed in one regimen.
- > Waveforms available: static, sinusoidal, heart stimulation, triangular, square, custom.
- ➤ Supplied with Arctangle® Loading Posts to provide uniaxial strain using 6-well **Tissue Train® culture plates** (page 21) and 6-well **UniFlex™ culture plates** (page 22) and with linear molds (Trough Loaders™) to create bioartificial tissue strips up to 35 mm length using Tissue Train® culture plates (Fig. 8).
- Optional cylindrical Loading Posts to provide equibiaxial strain in 6-well BioFlex® culture plates (page 20) for 2D cell constructs or in 6-well Tissue Train® Circular Foam culture plates (page 22) for 3D cell constructs.
- ➤ Optional Baseplate Kits (page 10) to use the FX-6000TT with more than one baseplate, for Tension applications, or high throughput tests.
- ➤ Drives up to four independent FlexLink® remote compression and/or tension controllers.
- Works with microscopy devices StageFlexer[®], StageFlexer[®] Jr. (page 12), FlexFlow[™] (page 14), Inverted StageFlexer I[®] (page 13), and image collection system ScanFlex[™] (page 11).
- ➤ FX-6000[™] Tissue Train[®] System includes:
 - Host computer with flat panel monitor
 - FlexSoft FX-6000™ software
 - FX6K™ Tension FlexLink®
 - BioFlex® Baseplate and four gaskets
 - Tissue Train® Trough Loaders™
 - Arctangle® Loading Stations™
 - Four Tissue Train® culture plates
 - Drying filter, water trap, vacuum tubing, and grease/lubricant



Figure 7. FX-6000™ Tissue Train® System



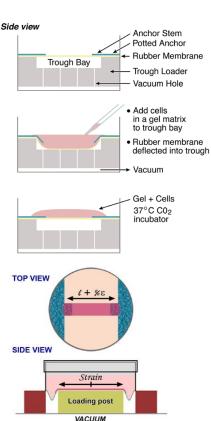


Figure 8. Bioartificial tissue development and uniaxial strain application with the Tissue Train[®] system

Please note: For operation, the FX-6000TT System requires a vacuum pump.