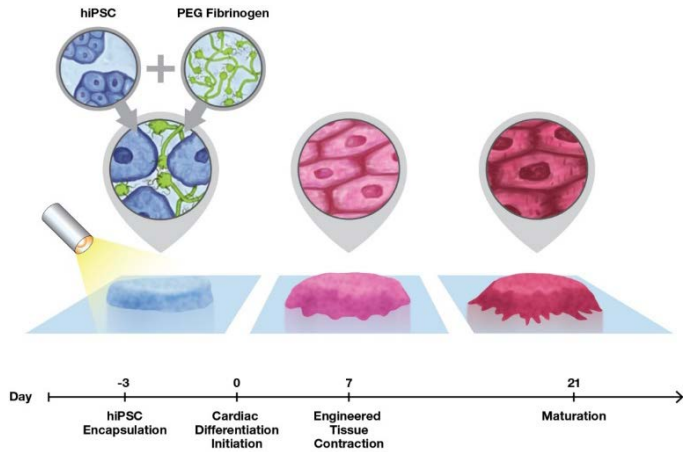


# Biomimetic Materials, Tissue Engineering and Tissue Regeneration Lab

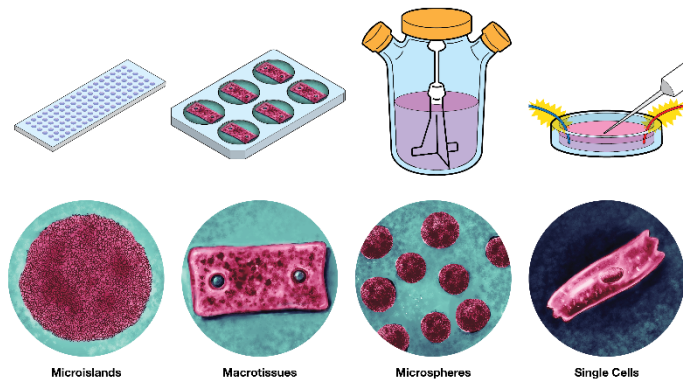
## Elizabeth A. Lipke

Department of Chemical Engineering, Auburn University

### Engineered Developing Heart Tissue



One-step approach for 3D tissue formation from human pluripotent stem cells

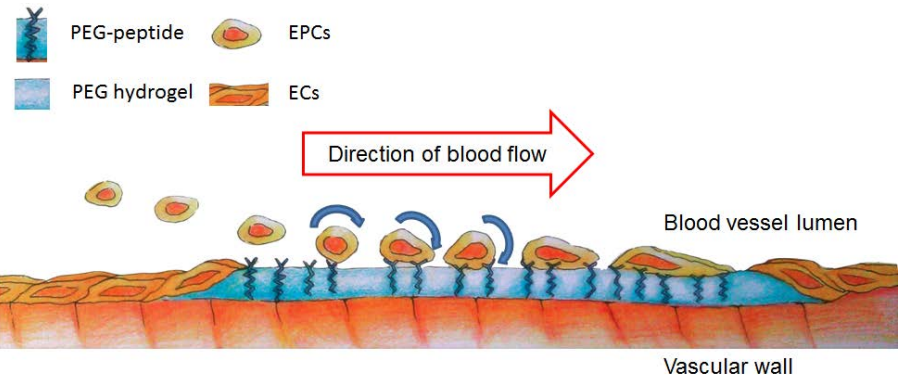


Range of geometries for multiple applications results in creation of heart tissues with mature structural features.

### Biomimetic Materials Guide Tissue Function



### Peptide-grafted Hydrogels Support Endothelial Progenitor Cell Rolling



### Engineered Tumor Tissue with Necrotic Core

