Three-dimensional Vascular Network Assembly from Diabetic Patient-derived Induced Pluripotent Stem Cells

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Technology description

In diabetics, hyperglycemia results in deficient endothelial progenitors and cells, leading to cardiovascular complications. We aim to engineer three-dimensional (3D) vascular networks in synthetic hydrogels from type-1 diabetes (T1D) patient-derived human induced pluripotent stem cells (hiPSCs), thus serving as a transformative autologous vascular therapy for diabetic patients.

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