

**METHODS OF MANUFACTURING HYDROGEL MICROPARTICLES HAVING
LIVING CELLS, AND COMPOSITIONS FOR MANUFACTURING A SCAFFOLD
FOR TISSUE ENGINEERING**

Method of manufacturing hydrogel microparticles comprising one or more species of living cells attached thereon and/or encapsulated therein is provided. The method includes dissolving a hydrogel-forming agent in an aqueous medium to form a solution; suspending one or more species of living cells in the solution to form a cell suspension; dispersing the cell suspension into an organic oil to form a microemulsion; and subjecting the microemulsion to conditions that allow the hydrogel-forming agent to form hydrogel microparticles comprising one or more species of living cells attached thereon and/or encapsulated therein. Composition comprising a mixture of a degradable hydrogel and at least one hydrogel microparticle having one or more species of living cells, and method of manufacturing a scaffold for tissue engineering are also provided.

No Suitable Figure