CHANNELMAT - NOVEL MICROSTRUCTURED 3D HYDROGELS

HINTERGRUND

Materials providing a large cell-material contact area and well-defined mechanical properties are excellent for controlling cells by mechanotransduction. Porous hydrogels provide such a solution.

LÖSUNG

Hydrogel requirements:

- to create an environment which is favorable for cell growth
- to increase the contact area between cells and their surrounding environment to optimize mechanotransduction

VORTEILE

The innovative 3D biomaterial serves as a platform for controlling mechanotransduction by mimicking natural 3D cellular environments. It contains a novel form of microporous structures represented by micron-sized channels embedded in a hydrogel matrix of a well-defined stiffness.

ANWENDUNGSBEREICHE

Channelmat wants to take the next step and is looking for:

- infrastructure and know-how of research-oriented companies
- development of marketable concepts for novel products

PATENTSITUATION

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US US 15/571,892 anhängig

CATEGORIES

//Life Sciences
knowledge Transfer into already existing products