



**UNIVERSITÀ
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**DEVICE CONSISTING OF A BIOCOMPATIBLE MATRIX AND ENDOTHELIAL
CELLS FOR THE TREATMENT OF CUTANEOUS LESIONS**

Innovation in the treatment of cutaneous lesions



Category:

Life Sciences

Patent Ownership:

UNIVERSITÀ DI TRIESTE

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Available

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Brief description

The objective of this invention is attained through a device consisting of adult endothelial cells in association with acellular matrices made of biocompatible materials. For the device to be effective, the adult endothelial cells must be cutaneous microcirculation cells and the acellular matrices may be either one-layered matrices taken from decellularized dermis or matrices consisting of extracellular matrix components.

Innovative aspects and main advantages

One aspect of this invention involves a device consisting of endothelial cells and a 3D matrix, in which the cells are adult and preferably autologous and combined with a biocompatible acellular 3D matrix taken from decellularized dermis or matrices consisting of extracellular matrix components. A second aspect of this invention involves the utilization of the device consisting of endothelial cells and a 3D matrix in which the cells are adult and preferably

autologous, grown on a biocompatible acellular 3D matrix taken from decellularized dermis or matrices consisting of extracellular matrix components. Yet another aspect of the invention concerns the kit for the preparation of the invented device, which may be used on-site at the time of its application.

Applications

The device can be employed in both human and veterinarian medicine for the treatment of cutaneous lesions through the revascularization of the bottom of lesions.

Potential market

The potential markets for this invention are the pharmaceutical industry and the biomedical and health care sectors.

Development status

Available for the market.

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