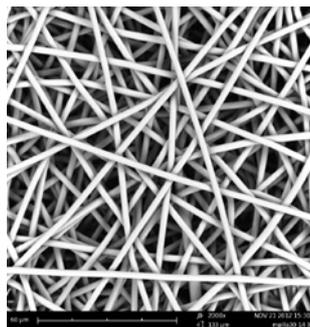
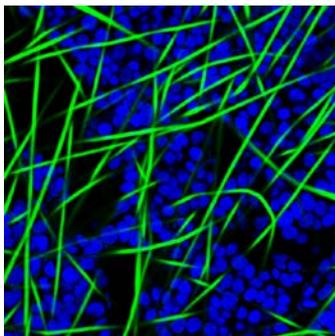


HESUB project combines several individual technologies from previous FP projects into one product that is capable of producing enough stem cells for one therapeutic treatment per day per unit. The HESUB product concept is a Single-Use-Bioreactor, which integrates a nanofibre porous scaffold optimised for the proliferation of cells and a sensor package that measures a range of key parameters. Which provides cost-efficient production of human stem cells for therapeutic treatment or a range of diseases.



Finished 50 ml scaffold volume HESUB all pre-assembled and packed in dual film bags before precision E-beam irradiation. Sensors for pH, DO, Glucose, Lactate installed in the media reservoir. Ready for use.



Cells arranged in scaffold being electrospun organic fibres into discs assembled inside 2 envelopes in SUB.

<p>HESUB's update the current 2D technology for culturing satellite cells by a perfused Single-Use-Bioreactor. Allowing propagation and/or differentiation of large numbers of satellite cells that retain myofibre regeneration properties of satellite cells.</p>	<ol style="list-style-type: none"> <li>1) Stobbe Tech A/S, Denmark</li> <li>2) The Electrospinning Company Ltd, United Kingdom</li> <li>3) PreSens Precision Sensing GmbH, Germany</li> <li>4) 3H Biomedical, Uppsala, Sweden</li> <li>5) Kungliga Tekniska Högskola, Royal Institute of Technology, Sweden</li> </ol>	<p><b>Project acronym:</b> HESUB  <b>Project full title:</b> "High Efficient, Single Use-Bioreactor simulating mammalian tissue conditions for expression and proliferation"          HESUB is funded by the European Union 7<sup>th</sup> framework programme under grant # 601700.</p>
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