

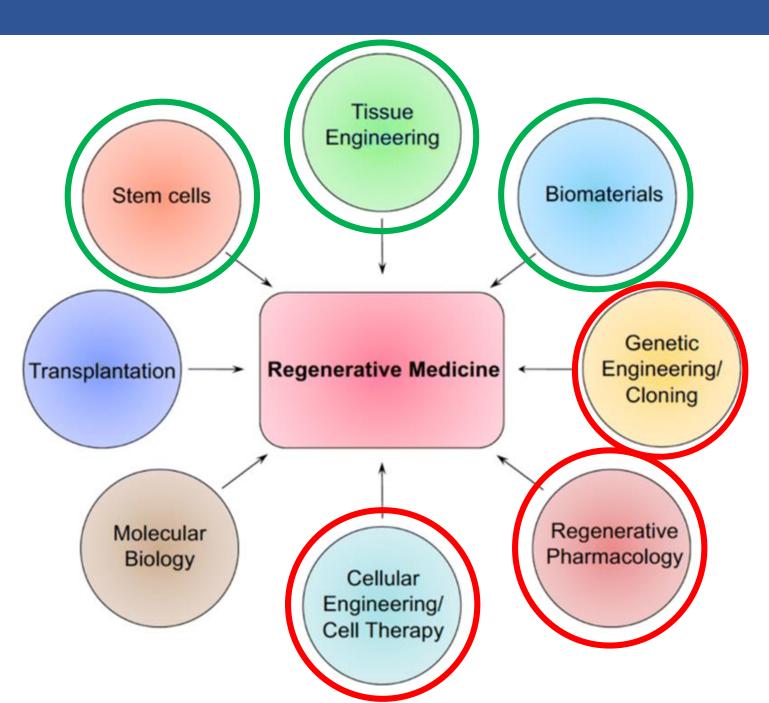


Tecniche di rigenerazione di tessuti e organi

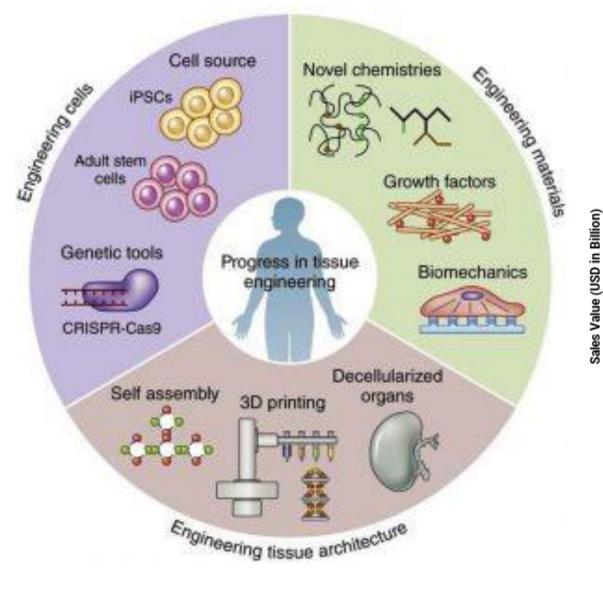
Prof.ssa Laura Lasagni/Prof.ssa Laura Sartiani

laura.lasagni@unifi.it

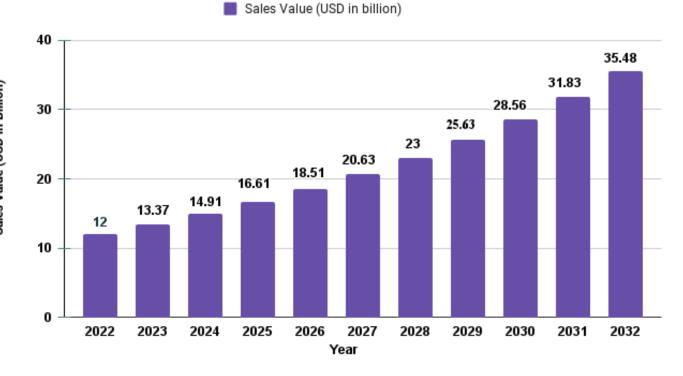
Il corso si propone di fornire allo studente conoscenze delle strategie e delle tecniche utili alla ingegnerizzazione di cellule, tessuti, organi e alla creazione di organoidi e tessuti in vitro con una particolare attenzione alle loro applicazioni nell'ambito della medicina rigenerativa.



Regenerative medicine: tissue engineering

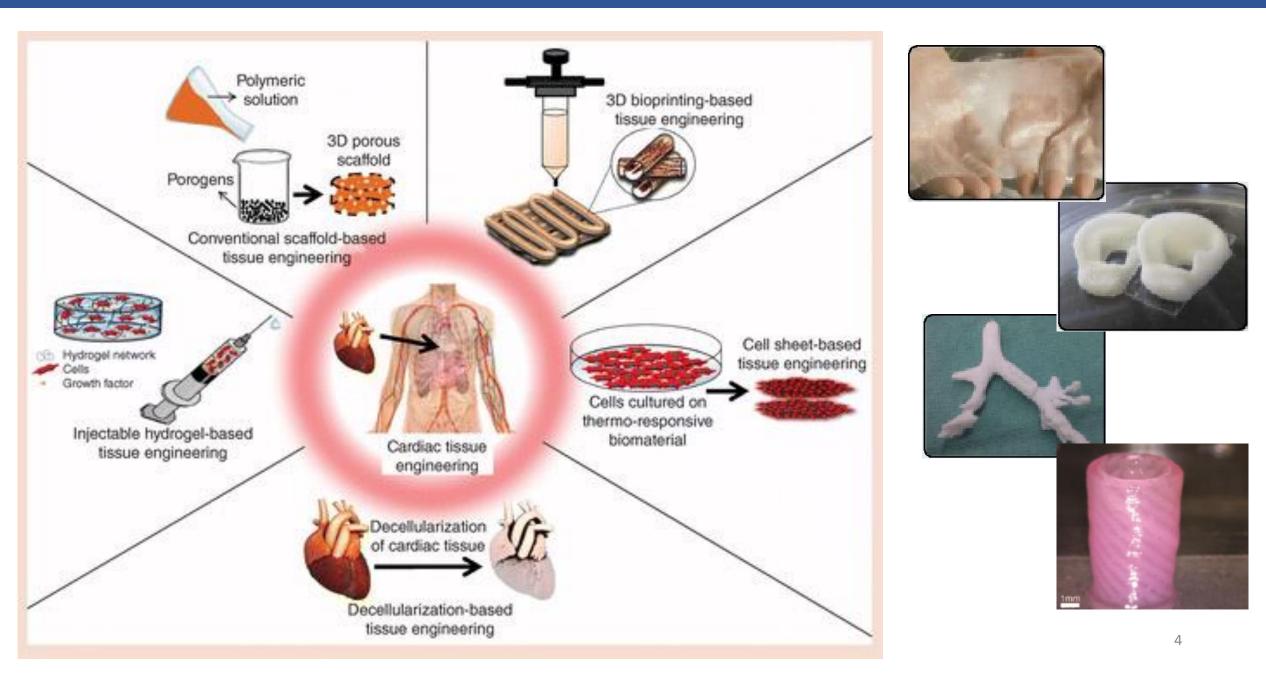


Global Tissue Engineering Market Growth 2022-2032

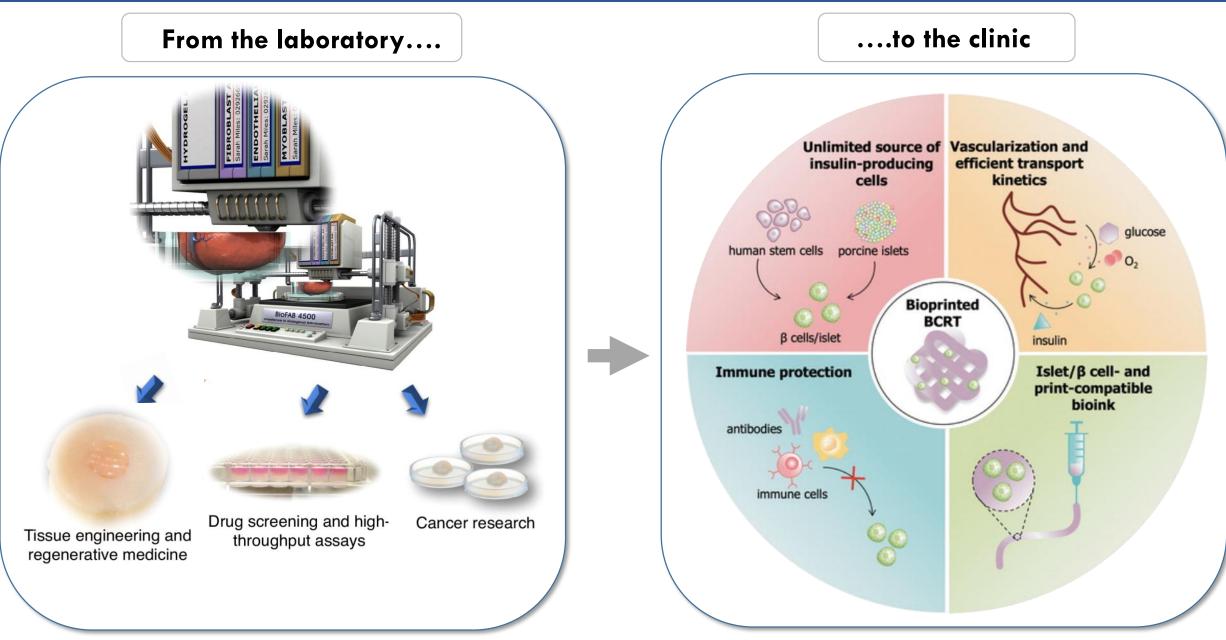


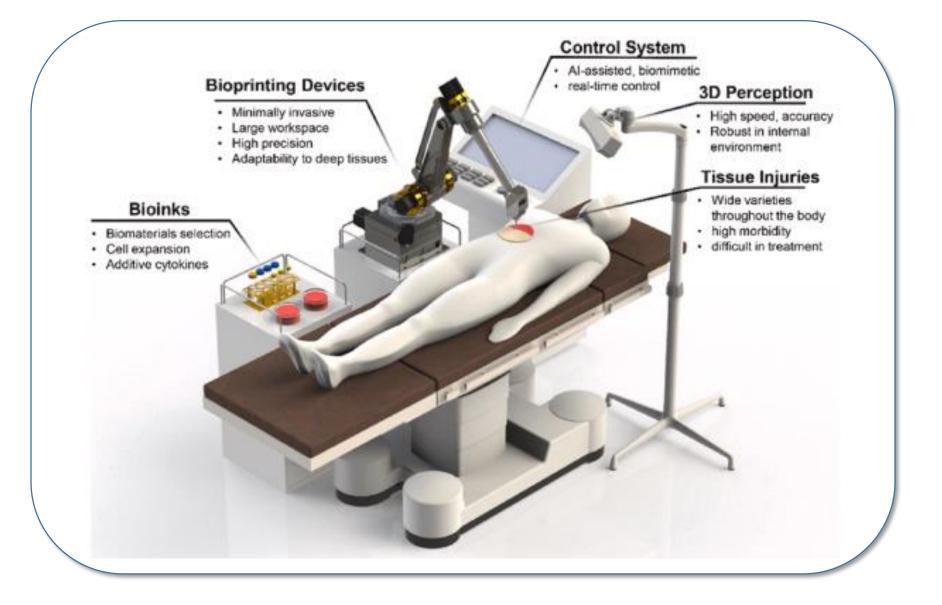
(Source: www.grandviewresearch.com)

How to obtain scaffolds and biomaterials: 3D bioprinting, tissue decellularization



Application of 3D bioprinting techniques

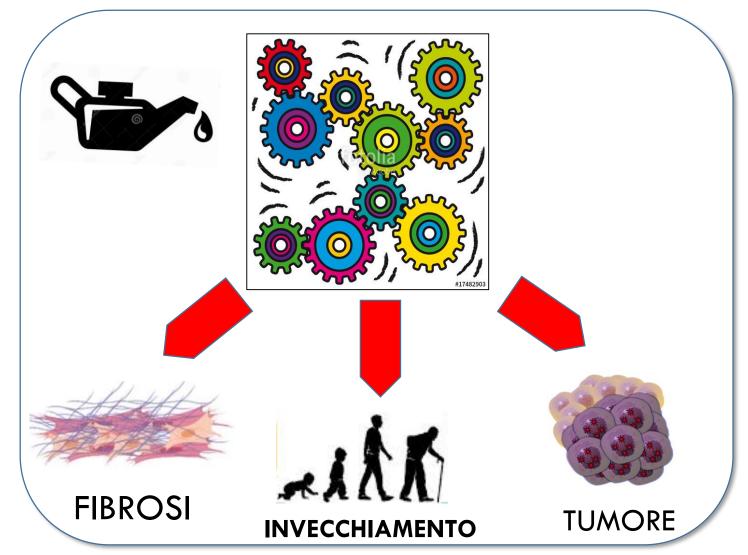




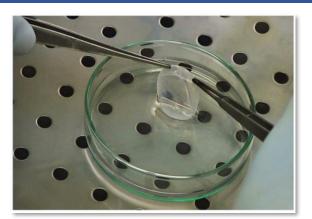
Stem cells as drugs

Stem cells as therapeutic target



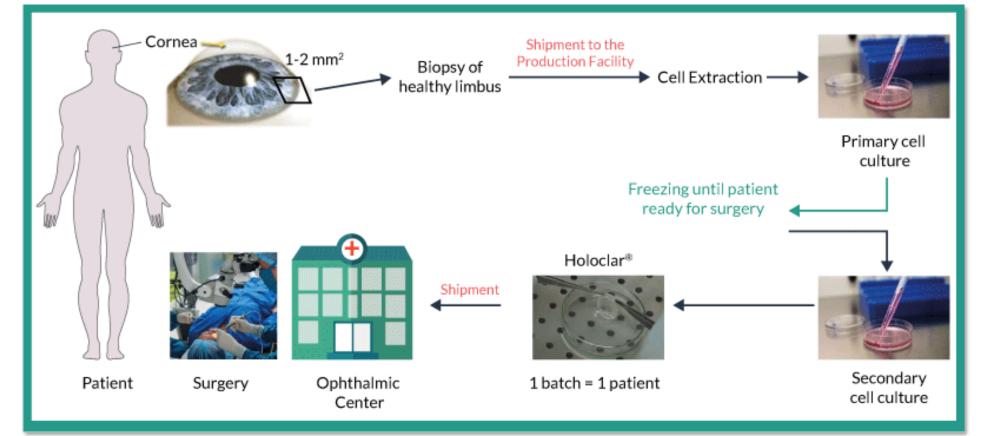


Bioengineering Approaches to Tissue Regeneration and Stem Cell Therapy for the Eye

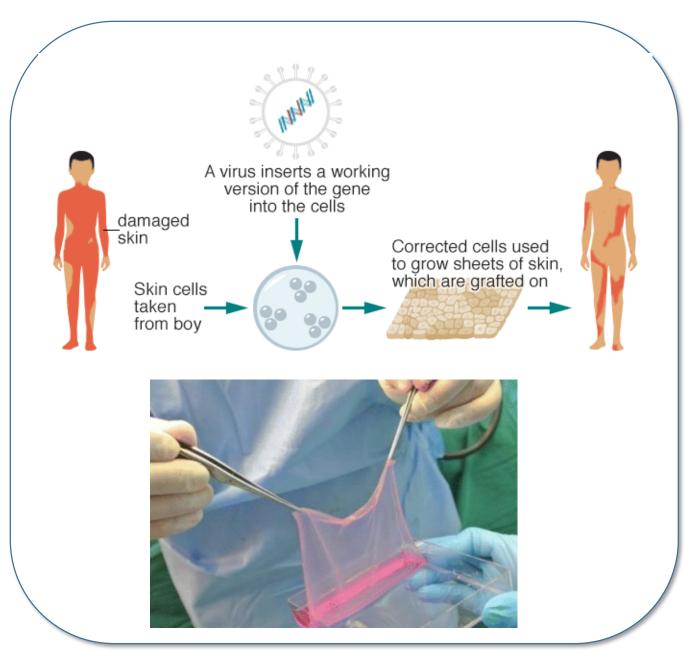








Regenerative medicine: from bench to bedside!



Regeneration of the entire human skin using transgenic stem cells

Hologene 5: A Phase II/III Clinical Trial of Ex vivo combined cell and gene therapy of Junctional Epidermolysis Bullosa "If you asked me 30 years ago if it was realistic to replace the whole skin with transgenic epidermis, I would have said no, but we have done it.

The final aim of my career is to make this gene therapy a real treatment for children — not a clinical trial or a demonstration of what we might do, but something that is used to treat everyone who needs it."

Michele De Luca

