

Bioresorbable fiber systems



BIORESORBABLE NON-WOVENS FOR REGENERATIVE MEDICINE

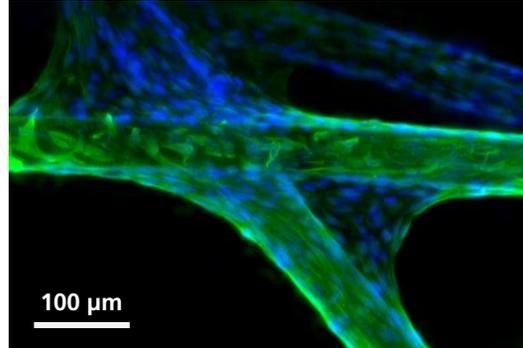
We are developing **scaffold materials** in form of fiber fleeces for the regeneration of different tissues e.g. skin, bone and cartilage. A smart combination of design, material properties and degradability, as well as the integration of biological components or active ingredients, enables us to meet **customer-specific requirement profiles**.

Meanwhile one fiber formulation is CE-approved in form of a bioresorbable silica gel fiber fleece for the **regeneration of chronic wounds** (diabetic ulcer and 2nd degree burns). A fine-tuned balance between cell ingrowth into the scaffold and fiber degradation to bioactive *ortho*-silicic acid enables the regeneration of the wound.

Versatile application areas



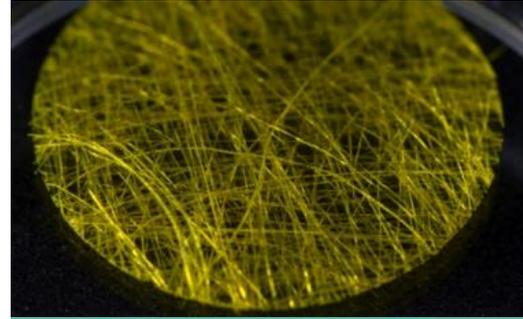
Regeneration
of chronic wounds



Bioresorbable
Scaffolds



Adjustable property profile



Drug-loaded
cell carrier structures

SERVICES

- Customized material development
- Different material platforms
 - Silica gel
 - Organically modified titanium oxides
 - Inorganic-organic hybrid formulations
- Adjustable property profile (among others):
 - Resorption rate
 - Fiber diameter and mesh size
 - Elastomechanics / Rigidity

APPLICATIONS (among others)

- Regenerative medicine, e.g. regeneration of chronic wounds
- Bioresorbable scaffolds for ATMPs
- Drug Carrier

Your Contact



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