

RENACER® fibers – Platform Technology for Applications in Life Sciences



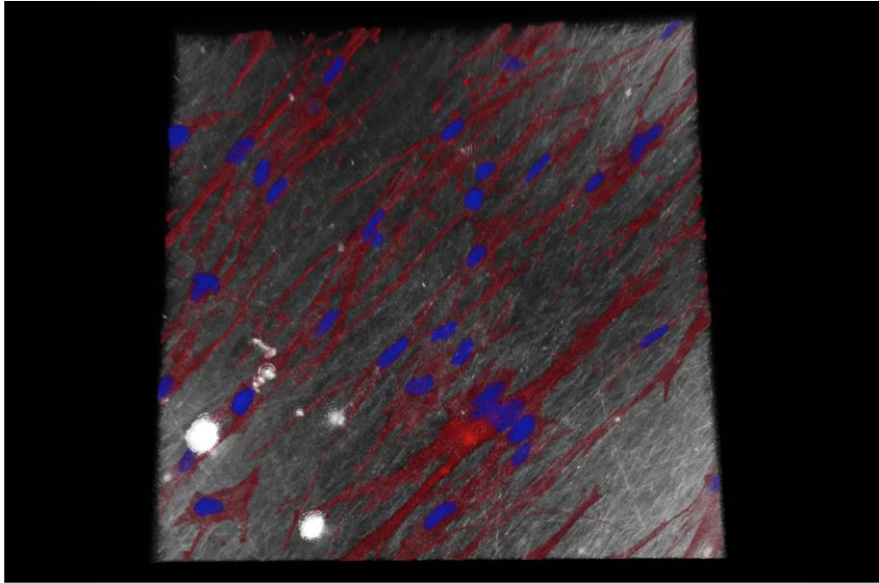
RENACER® - bioresorbable inorganic fibers

At Fraunhofer ISC, **resorbable RENACER® fibers** are being developed that show no cyto- or genotoxicity and dissolve completely into bioactive *ortho*-silicic acid when in contact with physiological fluids.

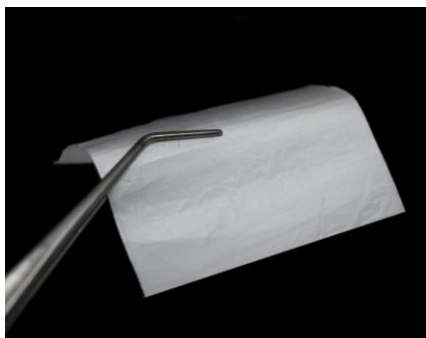
The RENACER® fibers show high potential for applications in **medical technology, pharmaceutical industry, cosmetics and food technology.**

[Read press release](#)

Versatile application areas



Human fibroblasts on RENACER® fleece surface



sub- μ -fibers



μ -fibers

SERVICES

- Customized material development into filaments or fiber fleeces
- Adjustable fiber diameter from 100 nm to 50 μ m
- Bioresorbability into bioactive *ortho*-silicic acid
- Encapsulation and release of drugs in fiber matrix
- Biologization or chemical functionalization of fiber surface

APPLICATIONS

- Resorbable medical devices
- Fibrous Drug Delivery Systems
- Bioresorbable scaffolds

Your Contact



**Head of Business Unit
Dr. Jörn Probst**

joern.probst@isc.fraunhofer.de

Phone: +49 931 4100-300



**Project leader
Dr. Bastian Christ**

bastian.christ@isc.fraunhofer.de

Phone: +49 931 4100-596

Fraunhofer Institute for Silicate Research ISC

Business Unit Biomaterials | Translational Center Regenerative Therapies TLC-RT

Neunerplatz 2 | 97082 Würzburg | Germany | www.regenerative-therapien.fraunhofer.de