



“Your Custom Made – Molecular Designed Biological Surface”

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personally liable shareholder
(general partner) UMEX GmbH Dresden

- Biofunctionalization of surfaces and nanoparticle for technical applications
- Production customized proteins and microorganisms
- Immobilization of living microorganisms
- Biomimetically mineralisation
- Biofunctionalization of sensor and actuator systems for bioprocess engineering, environmental technology and medical technology
- Pyroelectric coatings for bioactive applications
- Specialized equipment and components for bioprocess engineering, particularly photoreactors, photobioreactors, radiation sources

Custom Bioreactor Systems for Fermentation



**assumption of
UMEX products**

Special systems for photochemistry / photobiology



all-purpose laboratory reactor



reactor with jacket
and UVA - lamps



special lamps also for high
temperatures



fluidised bed reactor with twisted lamp

assumption of UMEX products

Biofunctionalized Surfaces and Nanoparticles

- Production customized proteins and microorganisms
- Immobilization of living microorganisms
- Biomimetically mineralisation
- Biofunctionalization of sensor and actuator systems for bioprocess engineering, environmental technology and medical technology
- Pyroelectric coatings for bioactive applications
- Biofunctionalized metallic nanoparticles for bioimaging and biosensing



R&D Services

- Genetic and microbiological production of specific proteins and microorganisms
- Genetically modified yeasts for sensor-actuator systems
- Native and genetically modified S-layers as a universal sensor coatings
- Nanoparticles and nanofibres
- Biofunctionalized Au- and Ag- nanoparticles for Biosensing

