

Transferkolleg 2011 - Micro- and Nanotechnologies for Health

For applications in the health care and medical sector Micro- and Nanotechnologies (MNT) have proven their indispensable values already. In many novel products and methods MNT represents the enabling technology. However, a lot more opportunities are still on the horizon. Switzerland is well positioned in this rapidly growing market worldwide. This Transferkolleg will help to identify even more opportunities and facilitate the access of Swiss industry to qualified expert knowhow and technical support and the field itself.

Some of the challenges addressed include application of MNT in

- Sensors and actuators for human implantable devices
- Biochips and microarrays for fast chemical analysis and patient monitoring
- Miniaturized drug delivery systems
- Biocompatible surface treatment and coatings
- Novel assembly and packaging methods of medical devices
- Sustaining products for elderly people
- Smart mobile systems for health care and well-being
- Medicare equipment

The health care market is growing at an annual rate of over 10%. The Swiss economy profits from this situation. This Transferkolleg contributes to a competitive industry in this sector.

Project team

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