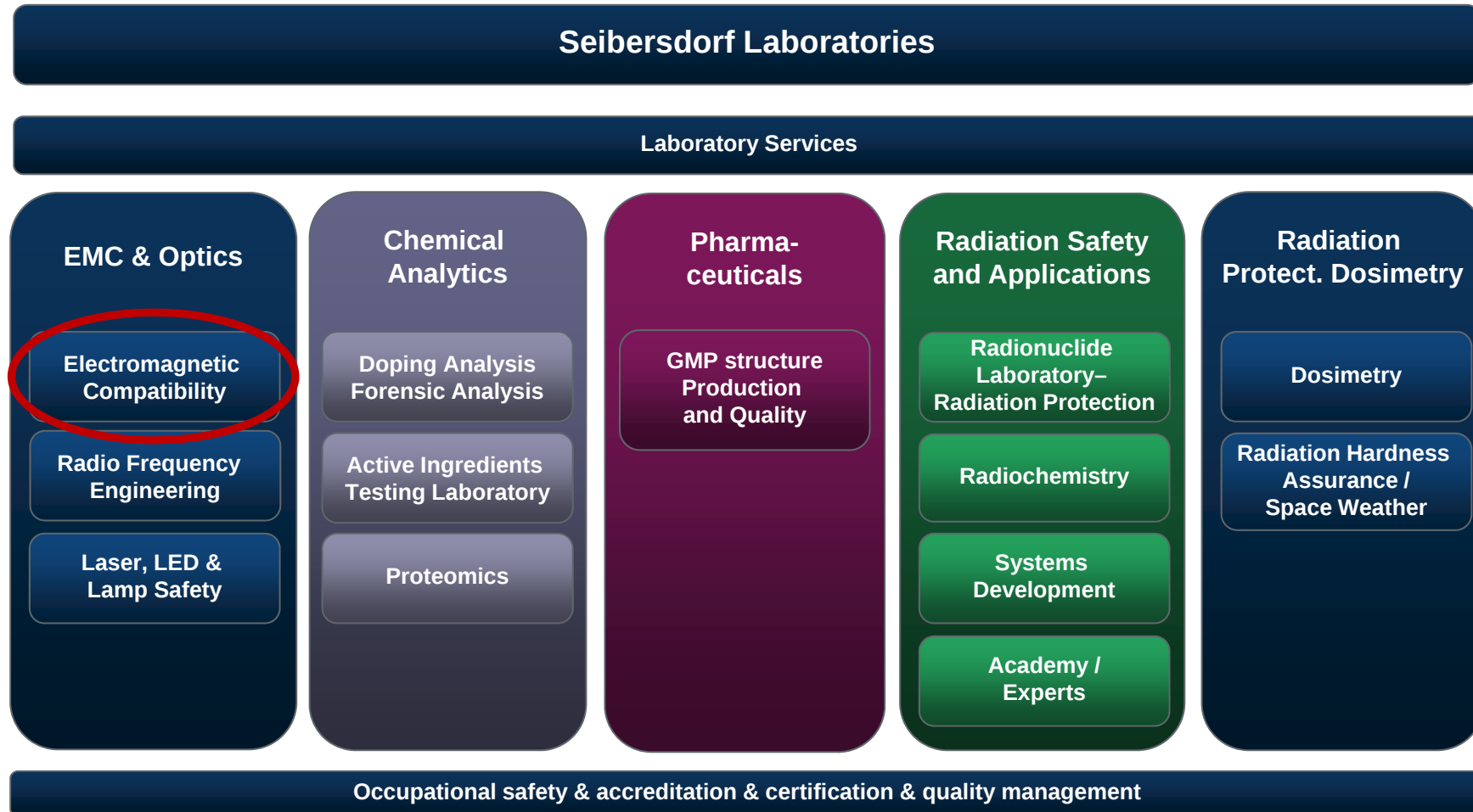


Exposition gegenüber elektromagnetischen Feldern

Erfassung, Bewertung, Anwendungen

Gernot Schmid
Fachbereich Elektromagnetische Verträglichkeit
Seibersdorf Labor GmbH

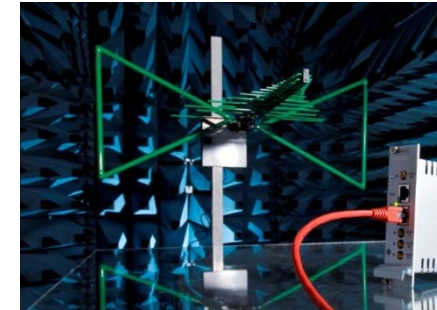
Organigramm



Elektromagnetische Verträglichkeit



- Elektromagnetische Verträglichkeit von Geräten (EMV)



- **Sicherheit in elektromagnetischen Feldern (EMF)**

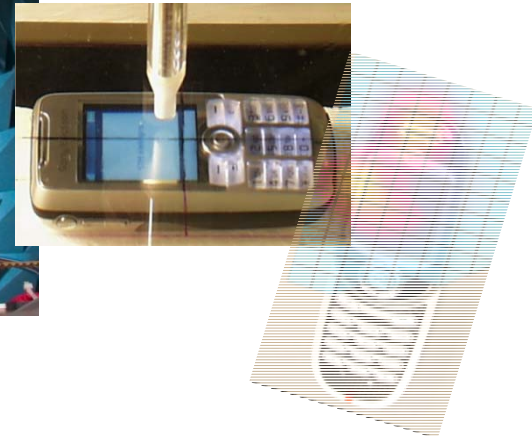
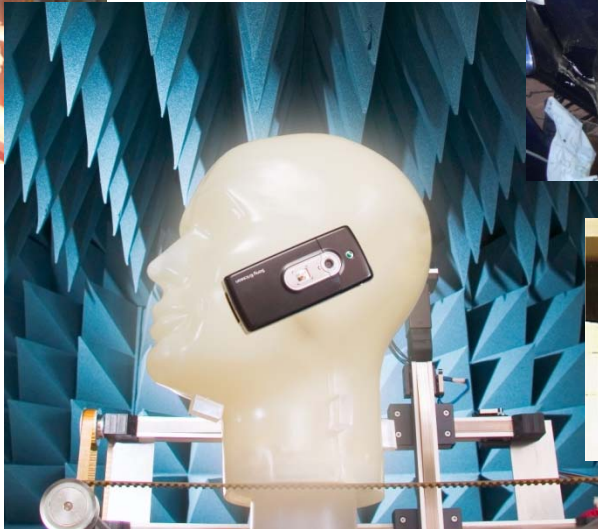


- **Antennen-, System-, und Sensorentwicklung**



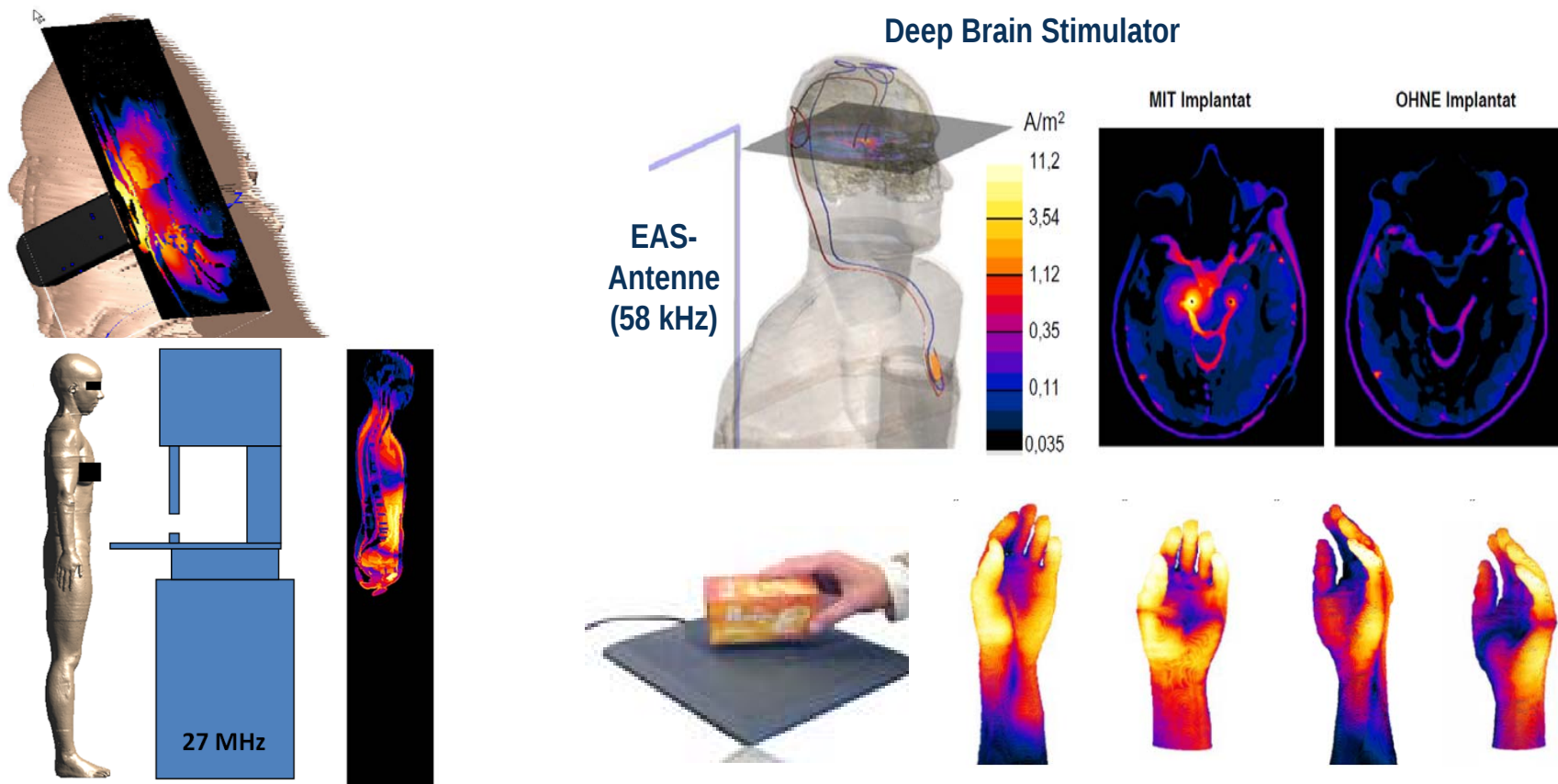
Sicherheit in elektromagnetischen Feldern

Immissionsmessungen (0-40 GHz)



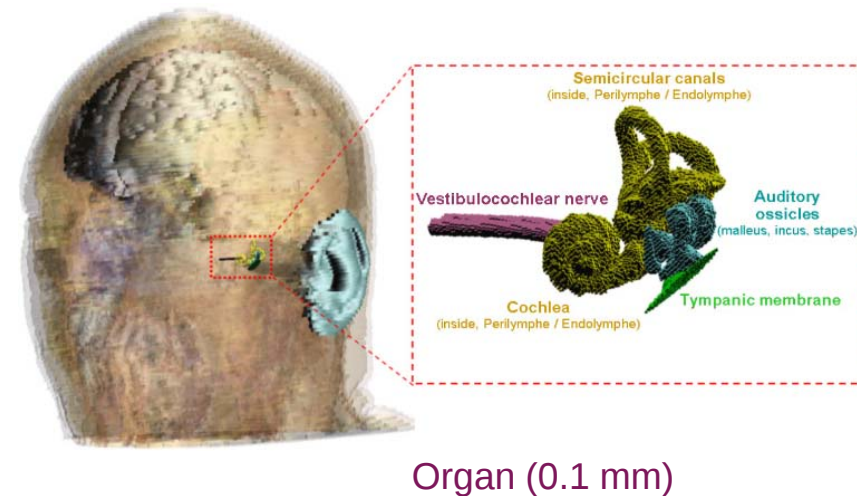
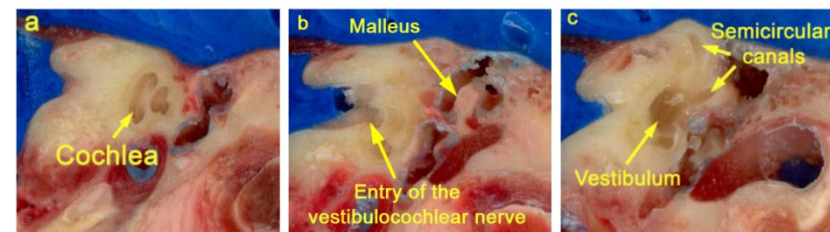
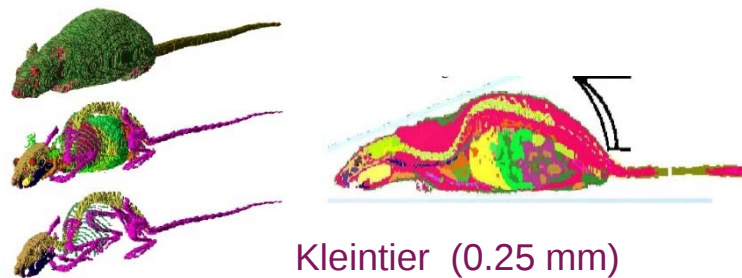
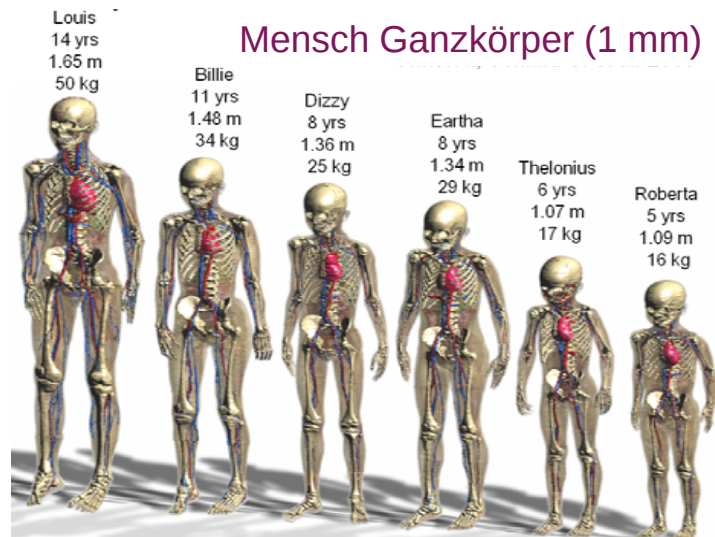
Sicherheit in elektromagnetischen Feldern

Numerische Analyse intrakorporaler Größen (DC – 40 GHz)



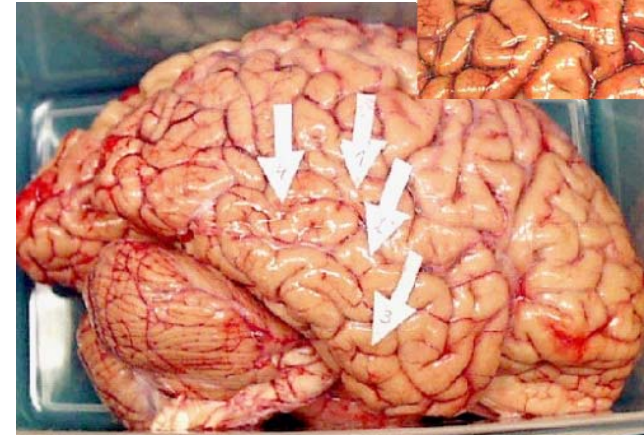
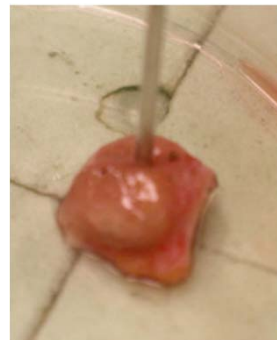
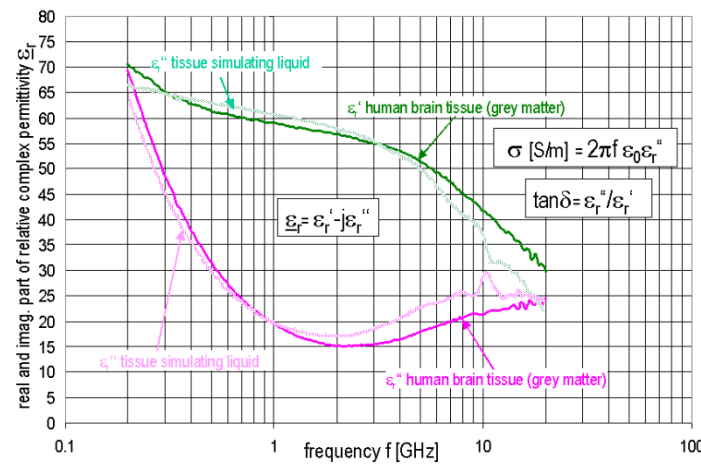
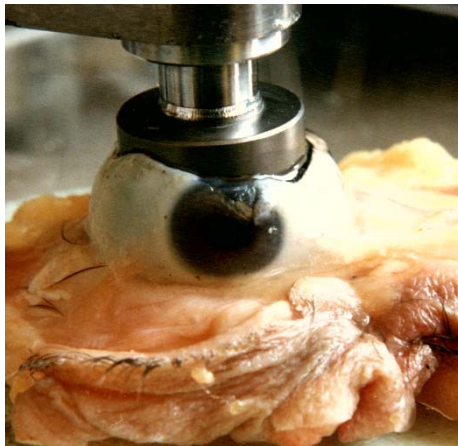
Sicherheit in elektromagnetischen Feldern

Entwicklung numerischer anatomischer Modelle



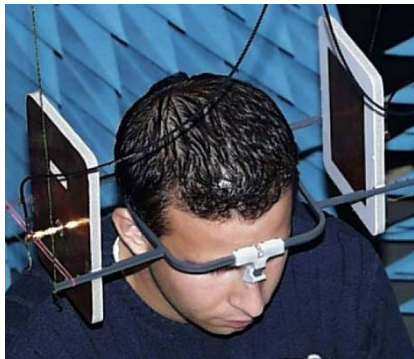
Sicherheit in elektromagnetischen Feldern

Dielektrische Charakterisierung biologischer Gewebe

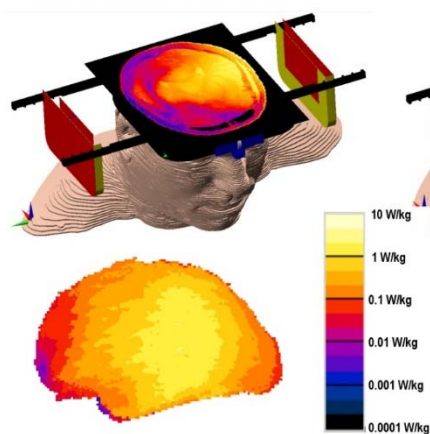


Sicherheit in elektromagnetischen Feldern

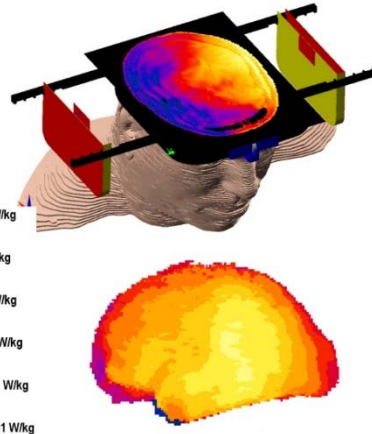
Entwicklung von Expositionsanlagen



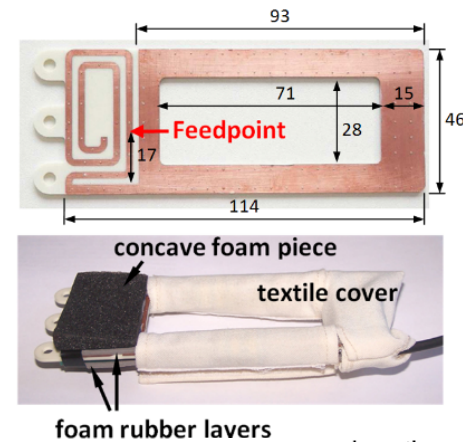
900 MHz patch antenna setup



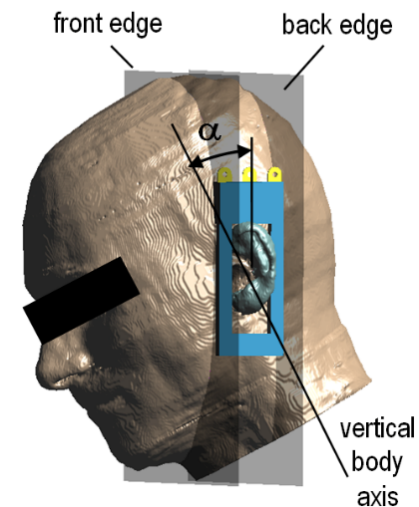
1970 MHz patch antenna setup



3. URSI Austria Commission Meeting, G. Schmid, 10.11.2014



plane through

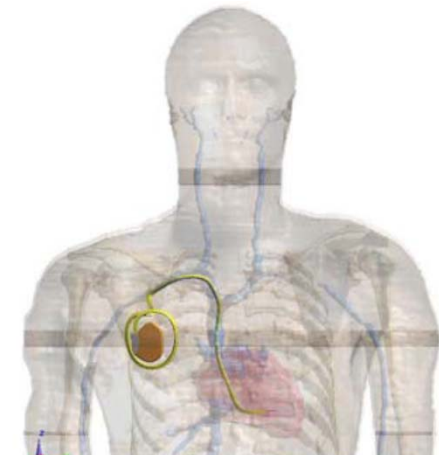
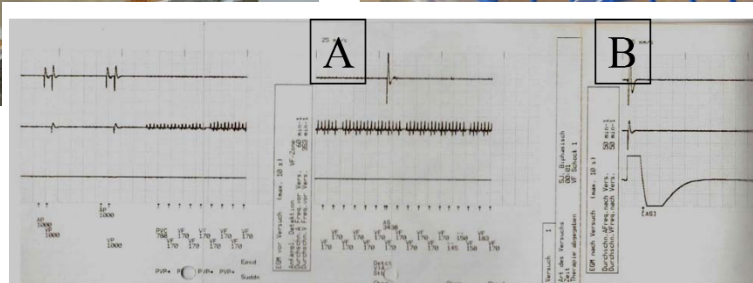


Sicherheit in elektromagnetischen Feldern

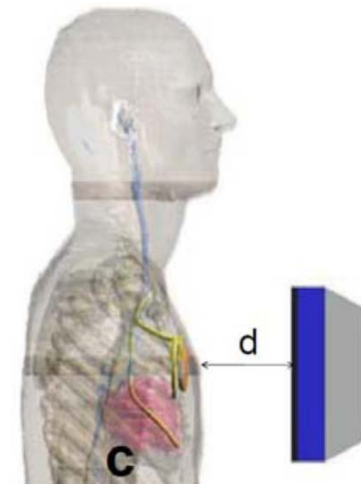
Störbeeinflussung elektronischer Implantate



experimentell in vitro

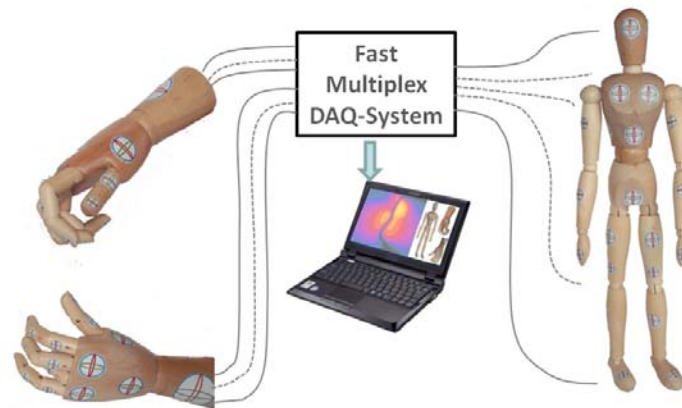


numerisch

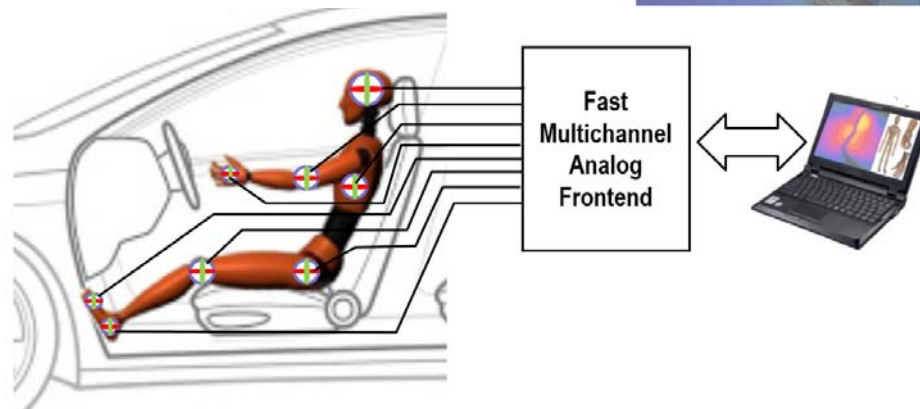


Sicherheit in elektromagnetischen Feldern

Entwicklung von Immissionsmess-Systemen

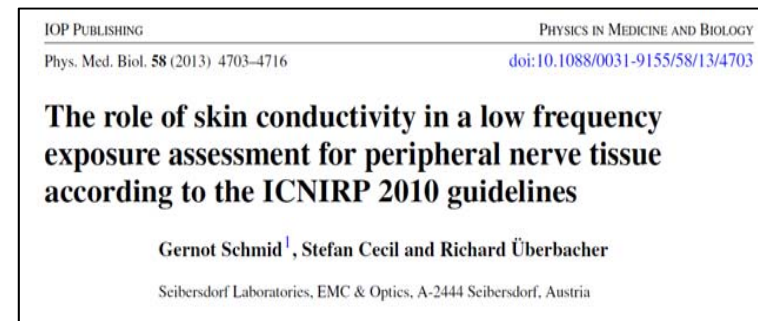
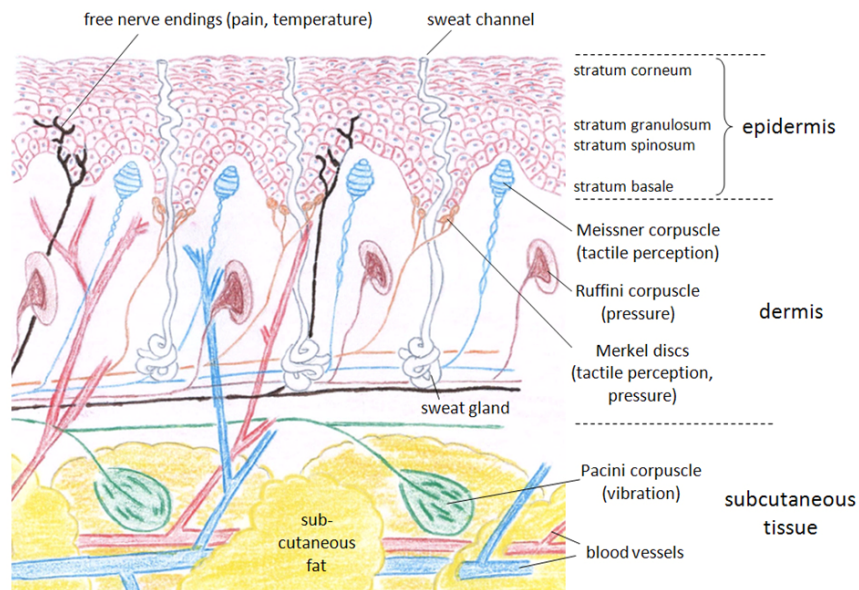


effiziente
normkonforme
Expositionserfassung



Sicherheit in elektromagnetischen Feldern

Modellbildung für Stimulation von Hautnerven für die Expositionsbeurteilung



Danke!