

Bachelor / Master Thesis

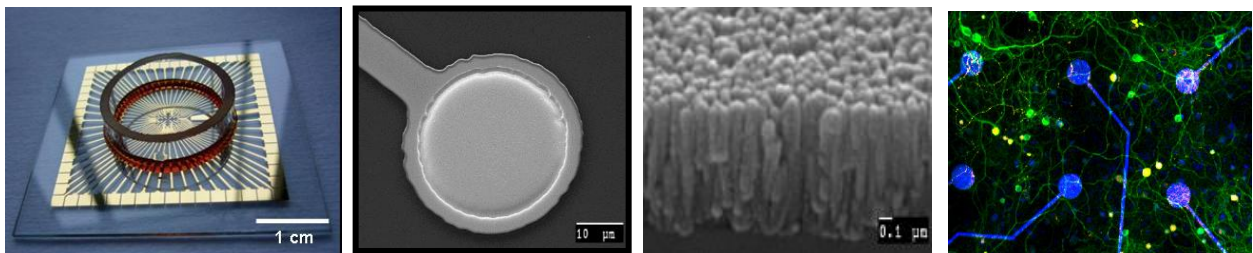
Biomedical Engineering, Microtechnology, Chemistry, Physics

Evaluation of new microelectrodes: functionality, stability, and biological application

Motivation and Topic

The NMI develops microelectrode arrays (MEA) for the investigation of electrically active cells and drug development. Commercial MEAs are produced and distributed by the NMI Technologietransfer GmbH. For the combination of electrophysiology and optical methods, transparent materials are important.

In this interdisciplinary project, several transparent electrode materials will be evaluated and compared with respect to their reproducibility, stability and their applicability in intended applications. The methods include microscopy, spectroscopy, electrical analysis, cell culture techniques and electrophysiology. The results from this work will contribute directly to product development.



We offer

An exciting, interdisciplinary topic, supportive supervision from the fields of material science, microtechnology and electrophysiology, well-equipped laboratories, and a cooperative environment.

Requirements

Studies in biomedical sciences or engineering, medical technology, microtechnology, chemistry or physics, interest in biological research, experimental aptitude, capable of independent work.

Applications by email to Dr. Ramona Samba | samba@nmi-tt.de | 07121 51530 855

NMI Natural and Medical Sciences Institute at the University of Tübingen
NMI Technologietransfer GmbH
Markwiesenstraße 55
72770 Reutlingen
www.nmi.de | www.nmi-tt.de