

NeuroConnex

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Research & Development

A Challenge of new Applications

NeuroConnex is a technology driven company. We are able to find the best technological solution for your application. Close cooperation with different research groups and continuous extension of our own technological capabilities gives you a unique combination of modern know-how and cost effectiveness.

Our engineering team can provide you with various technological solutions based on the following in-house Know-How:

Micro System Technology

Photolithography
E-beam lithography
Silicon micromachining
Micro galvanic
Micro Flex-PCB

Micro Electronic

Full-custom ASIC design
DSP & FPGA based embedded systems
Real-Time embedded software
Signal and Image Processing algorithms
Optoelectronic

Project Management

Quality management
Regulatory affairs
FMEA, Risk management

Contract Research

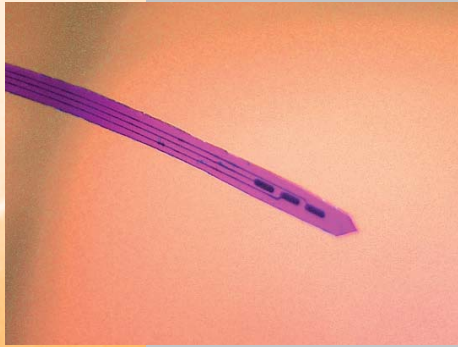
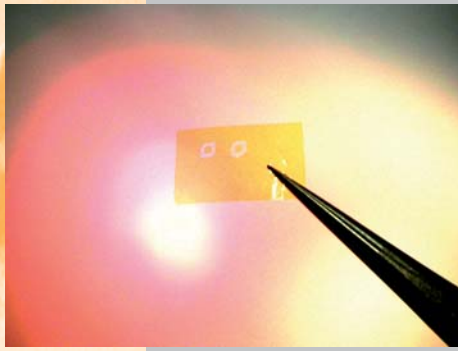
In-vitro & in-vivo investigations
Long-term animal trials
Patent management & evaluation

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NeuroConnex

NeuroConnex was established in 2004 in Meckenheim, Germany as a design house for modern neurophysiological equipment. Custom development of neural implants, biochemical sensors and microsystem technologies has built the foundation of our company. Furthermore, expanding our portfolio with several Off-The-Shelf products like microelectrode arrays, neurostimulators and different electronic devices, we support the worldwide scientific community with modern tools for investigation of brain organisation and functionality.

NeuroConnex is collaborating with several research institutes and support groups worldwide developing novel neuroprosthetic devices for people with different disabilities.



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Custom Development

Smart Pills

The diagnostic of reflux diseases requires continuous 24-hour monitoring of pH value in the stomach of the patient. Available methods use a catheter inserted through the nose and are require procedures causing a significant discomfort for a patient. An alternative method is based on a simple swallowing pH-sensor that was developed in collaboration with our customers. The Smart Pill incorporates a temperature and potentiometric pH sensor as well as 433MHz RF transmitter and a power source. After activation the Smart Pill sends the measured values to the external handheld device. Recorded data may be then transmitted to standard PC and analyzed by a physician. First animal trials show an effectiveness and safety of such diagnostic devices.

Contract Research

Special manufacturing technology is often the only way to meet the customer's requirements like cost-effectiveness or reliability. In a close collaboration with several research institutes we are able to find and establish the best manufacturing method for your application.

Polymer Microsystems

In a search for a simple and cost-effective solution for disposable sensors NeuroConnex developed a new manufacturing technology for polyimid micro-valves and flexible chemical sensors. This allows our customers to accelerate its own development process and to reduce the overall technological risk