

## INTERNATIONAL RESEARCH COOPERATIONS — Successful INKA projects with Johns Hopkins, Vanderbilt, QUT Brisbane and IIT Kharagpur

In the last 12 month several longer research exchanges lead to exciting cooperations and results in Prof. Friebe's INKA chair at OVGU.

**Robert Odenbach**, MSc, spend a longer period at Vanderbilt University in Nashville at the labs of robotic pioneer Prof. Bob Webster. The research on marker structures and MRI compatible endorobotics already led to joint publications and will be intensified in the coming months through a visit from Vanderbilt researchers to the INKA labs at Magdeburg.

**Jens Ziegle**, MSc, just returned from a 2 month research visit at Prof. Boctors group at Johns Hopkins University in Baltimore working on thermometry monitoring using Ultrasound during RF ablation with a multi-electrode ablation system developed by the INKA group. The device is currently used by the National Institute of Health (NIH) for further evaluation. The results are very impressive and have already led to two joint Journal publications (IJCARs) for IPCAI, one more for MICCAI and a joint research proposal. Two JHU researchers will come to join our lab in June for some time to continue the works.

**Ali Pashazadeh**, MSc., currently is on his second research visit to the labs of Prof. Dietmar Hutmacher from the Queensland University of Technology, a world leading expert on tissue engineering. This DAAD sponsored research covers new strategies around 3D printing of radioactive scaffolds that could lead to new interventional and personalised oncological therapies. The result so far: two joint invention disclosures and a joint international proposal.

And, our senior Post-Doc **Alfredo Illanes** was invited as a guest professor to teach a signal processing course at the Indian Institute of Technology in Kharagpur, the leading Indian research university. He was part of Prof. Debodoot Sheets team in the electrical engineering faculty. This also lead - through intensive preparation beforehand - to a joint journal paper on 3D Ultrasound Segmentation employing novel Machine Learning algorithms and a proposal for the recent Indio-German research call. Dr. Illanes will offer this course at the OVGU as well in the coming semesters.