Research outputs:

**Muscle fibre morphology and microarchitecture in cerebral palsy patients obtained by 3D synchrotron X-ray computed tomography**
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

**Diversity of Cortico-descending Projections: Histological and Diffusion MRI Characterization in the Monkey**
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

**Limits to anatomical accuracy of diffusion tractography using modern approaches**
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

**Topological principles and developmental algorithms might refine diffusion tractography**
Research output: Contribution to journal › Review – Annual report year: 2019 › Research › peer-review

**Uncovering the inferior fronto-occipital fascicle and its topological organization in non-human primates: the missing connection for language evolution**
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

**Imaging brain microstructure with diffusion MRI: Practicality and applications: practicality and applications**
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

**Magnetic resonance temporal diffusion tensor spectroscopy of disordered anisotropic tissue**
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

**The porcine corticospinal decussation: A combined neuronal tracing and tractography study**
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

**Validation strategies for the interpretation of microstructure imaging using diffusion MRI**
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

**Image quality transfer and applications in diffusion MRI**
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

**Disability in progressive MS is associated with T2 lesion changes**
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

**Effects of imaging gradients in sequences with varying longitudinal storage time-Case of diffusion exchange imaging**
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review
Short parietal lobe connections of the human and monkey brain
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Thalamocortical Connectivity and Microstructural Changes in Congenital and Late Blindness
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

The challenge of mapping the human connectome based on diffusion tractography
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

The Crossed Projection to the Striatum in Two Species of Monkey and in Humans: Behavioral and Evolutionary Significance
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Individual Differences in the Alignment of Structural and Functional Markers of the V5/MT Complex in Primates
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Single-Shot-RARE for rapid 3D hyperpolarized metabolic ex vivo tissue imaging: RF-pulse design for semi-dense spectra
Research output: Contribution to conference › Poster – Annual report year: 2016 › Research › peer-review

Using Diffusion Tractography to Predict Cortical Connection Strength and Distance: A Quantitative Comparison with Tracers in the Monkey
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

An Ex Vivo Imaging Pipeline for Producing High-Quality and High-Resolution Diffusion-Weighted Imaging Datasets
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Modelling Brain Tissue using Magnetic Resonance Imaging

Segmentation of age-related white matter changes in a clinical multi-center study
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

Validation of In vitro probabilistic tractography
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Segmentation of Age-Related White-Matter Changes in a large-scale, multi-centre study
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2006 › Research › peer-review

Semi-Quantitative Assessment of Inflammation in dMRI using Data Mining Techniques
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2005 › Research › peer-review

Standardizing MR image Intensity In Multi-Center Studies
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2005 › Research › peer-review
The prefrontal cortex of the Göttingen minipig brain defined by neural projection criteria and cytoarchitecture

Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2005 › Research › peer-review

Validation of Diffusion Tensor Imaging for in vivo tracing of cortico-thalamic projections in the Göttingen minipig brain

Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2005 › Research › peer-review

Projects:

Identification of new brain areas involved in body weight control and appetite regulation
Project: PhD

Biomedical modelling of the brain network using MRI
Project: PhD

Multi-modal microstructure imaging of biological tissue
Project: PhD

Cryogenic Single and Array Coils for Magnetic Resonance Systems
Project: PhD

Quantitative evaluation of peptide analogue distribution in mouse tissue using 3D computer modelling
Project: PhD

Kvantitativ tractografi: Statistisk modellering af hjernens neurale forbindelser med diffusion tensor imaging
Project: PhD

Computational modeling of MR/PET in brain tumor patients for optimized radiation therapy planning
Project: PhD

Modeling Structural Brain Connectivity
Project: PhD

Determination of magnetic resonance imaging biomarkers for multiple sclerosis treatment effects
Project: PhD

Mapping the functional integration in the human basal ganglia by means of multi-modal magnetic resonance imaging
Project: PhD