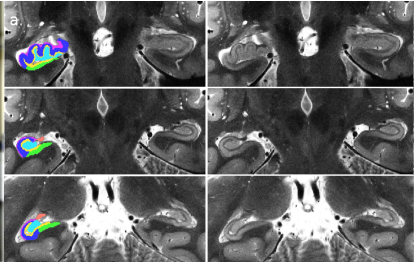


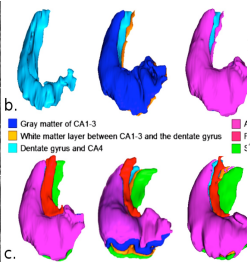
# Research topics – Overview



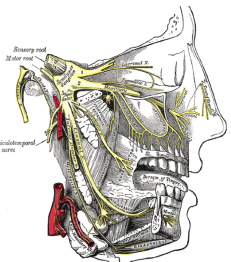
Ultra High Field MRI Methods (7 and 10.5 Tesla)



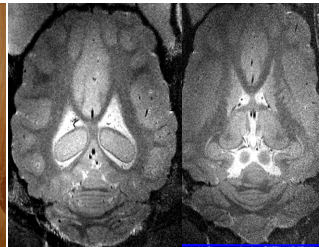
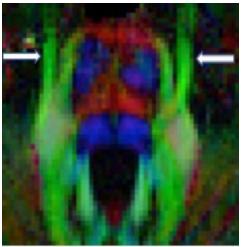
High Resolution MRI of the Hippocampus in Adult Epileptic Patients at 7 T



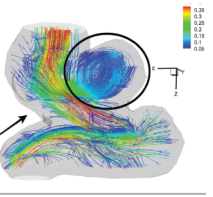
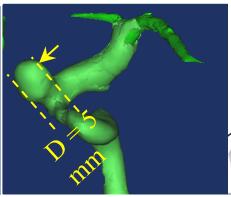
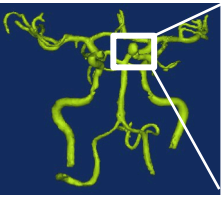
■ Gray matter of CA1-3  
 ■ White matter layer between CA1-3 and the dentate gyrus  
 ■ Dentate gyrus and CA4



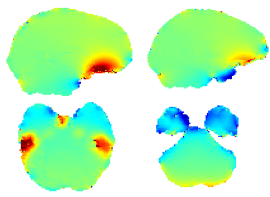
High Resolution diffusion MRI of the Trigeminal Nerve at 7 T



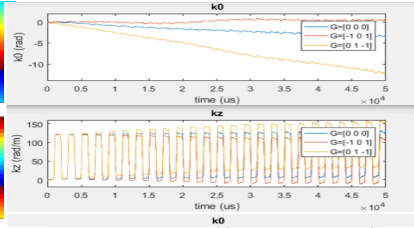
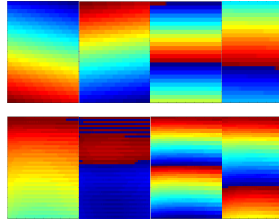
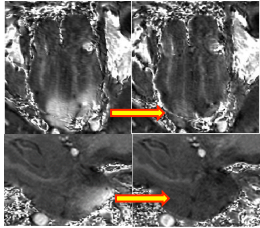
RF Coil Arrays at 10.5 Tesla (above: swine brain MRI at 10.5T)



4D Flow MRI: Blood Velocity Streamlines in Small Human Brain Aneurysms at 7T



Mitigation of B1 & B0 induced artifacts in Brain Images at 7T



Mapping Magnetic field gradient errors (field camera) for unbiased image reconstruction (7T and 10.5T)