

Seminario

Assessing brain microstructure *in vivo* through quantitative MRI at ultrahigh magnetic fields: hurdles and opportunities

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The advent of ultrahigh magnetic field strengths (UHF) has boosted the field of neuroanatomy through the remarkable high level of detail that can be achieved *in vivo*. Fine-grained variations in MRI contrast is linked with the underlying neurobiology and can be used to map brain tissue microstructure. However, with increasing field strength, methodological challenges in terms of increased inhomogeneity of the static and transmit fields arise. In my presentation I will show how such limitations can be addressed and how UHF can be used to elucidate the microstructure of the human midbrain.