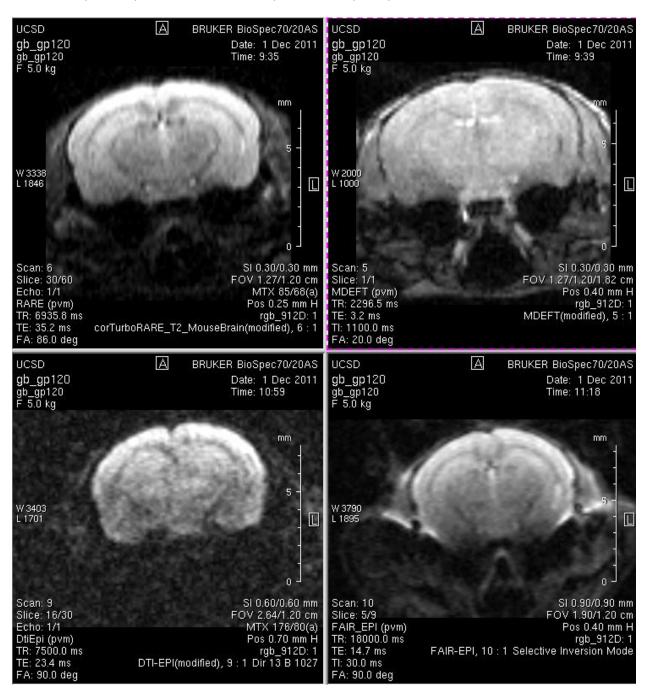
Protocol: Mouse Brain Exploratory

Purpose

To collect exploratory data on brain anatomy, relaxometry and perfusion in mice.



Mouse Brain Exploratory Protocol – "C_MouseBrainExploratory"				
Туре	Protocol Name	In-plane resolution, slice thickness	Slices	Scan time
Localizer	1_tripilot			
T1 weighted anatomical	2_T1MDEFT150x150x300	150μm X 150 μm, 300 μm	30	19 min
T2 weighted anatomical	3_T2RARE_150x150x150	150μm X 150 μm, 150 μm	60	18 min
Relaxometry	4_T1T2MapRARE_150x150x300	150μm X 150 μm, 300 μm (1 slice)	1	7 min
EPI	5_EPITrajMeas	150μm X 150 μm, 900 μm	20	This EPI scan should be done before any other EPI scans
FAIR-EPI	6_FAIR_EPI	150μm X 150 μm, 900 μm	9	Run <i>EPITrajMeas</i> <u>before</u> this scan. Use same in- plane prescription and BW as <i>EPITrajMeas</i>
Sensitivity Map	7_MinConRx	300μm X 300 μm, 600 μm	20	26 sec

Instructions

The 5_EPITrajMeas scan should have the same prescription as the 6_FAIR_EPI scan with the same in plane matrix and resolution and should be run before the 6_FAIR_EPI scan.

Notes

Coil: Two element mouse brain array.

Post-Processing Support

BC: Correction for surface coil bias (bright near the coil, darker further away) is available for beta testing. This will require the *MinConRx* scan and the anatomical scan to be corrected. If you do not use a surface coil, this correction should not be necessary.

Relaxometry: The scanner supports calculation of T1 and T2 maps from relaxation data like *T1T2MapRARE*. A tutorial is available at the center website.