Protocol: Whole Brain Mouse T1 Map

Purpose

- Measurement of whole brain T1 maps in a mouse.

![Whole Brain T1 Map Image]

**Protocol Directory: “C_MouseWholeBrainT1Map”**

<table>
<thead>
<tr>
<th>Type</th>
<th>Protocol Name</th>
<th>In-plane resolution, slice thickness</th>
<th>Slices</th>
<th>Scan time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Localizer</td>
<td>1_TripletMouse</td>
<td></td>
<td></td>
<td>0.5 min</td>
</tr>
<tr>
<td>T1T2Map</td>
<td>2_T1MapEpi</td>
<td>200µm X 200µm, 1 mm</td>
<td>16</td>
<td>4.5 min</td>
</tr>
</tbody>
</table>

**Instructions**

1. Use the mouse brain surface array with Coil B.
2. Position the mouse brain surface coil array carefully. Regions away from the coil center will have lower SNR and will produce poor T1 maps.

**Post-Processing Support**

T1 maps can be calculated with Bruker Paravision 5.1. Drag your acquired T1 map into the Image Display window. From the Image Display window select “Processing ➔ Image Sequence Analysis.” From the Image Sequence Analysis (ISA) window select “Calculate Parameter Images All Slices.” The calculated images will be stored in a “pdata/#” directory with the rest of the Bruker data.