

1. General Information

Cohort ID	5004_12
Title (Study Name)	MRT Brain Cohort
Principal investigator	Prof. Johannes Haybäck ; Prof. Reinhold Schmidt
Contact information	pm-biobank@medunigraz.at
Funding agency	-----

2. Description

<p>Specific areas and lesions of human brains have been collected from deceased persons. Based on images obtained by magnetic resonance imaging (MRI) the samples were collected.</p> <p>All collected brain sections - including lesions - were anatomically identified, coded and then preserved in the biobank. For each individual, frozen tissue is available from 50 defined (coded) regions of the brain.</p> <p>The PIs of the MRT brain collection are interested in research collaborations from the following disciplines:</p> <ul style="list-style-type: none"> • Neuropathology • Expression analysis • Laser dissection • Mass spectrometry • Proteomics • ELMI

3. Details

ICD 10/O codes / Healthy	/	
Key words	MRI brain	
Collection / Cohort size	6662 aliquots collected from 35 patients	
Informed Consent (IC)	<input type="checkbox"/> Broad Biobank IC	
	<input type="checkbox"/> Specific Study IC	
Status	<input type="checkbox"/> In progress / compl. date:	
	<input checked="" type="checkbox"/> Completed	
Inclusion criteria	Age distribution	23 - 84
	Sex distribution (f:m)	~ 50:50
Earliest access	As of now	
Quality-standards	<input checked="" type="checkbox"/> ISO 9001:2015 (SOPs)	
Associated publications / references	-----	

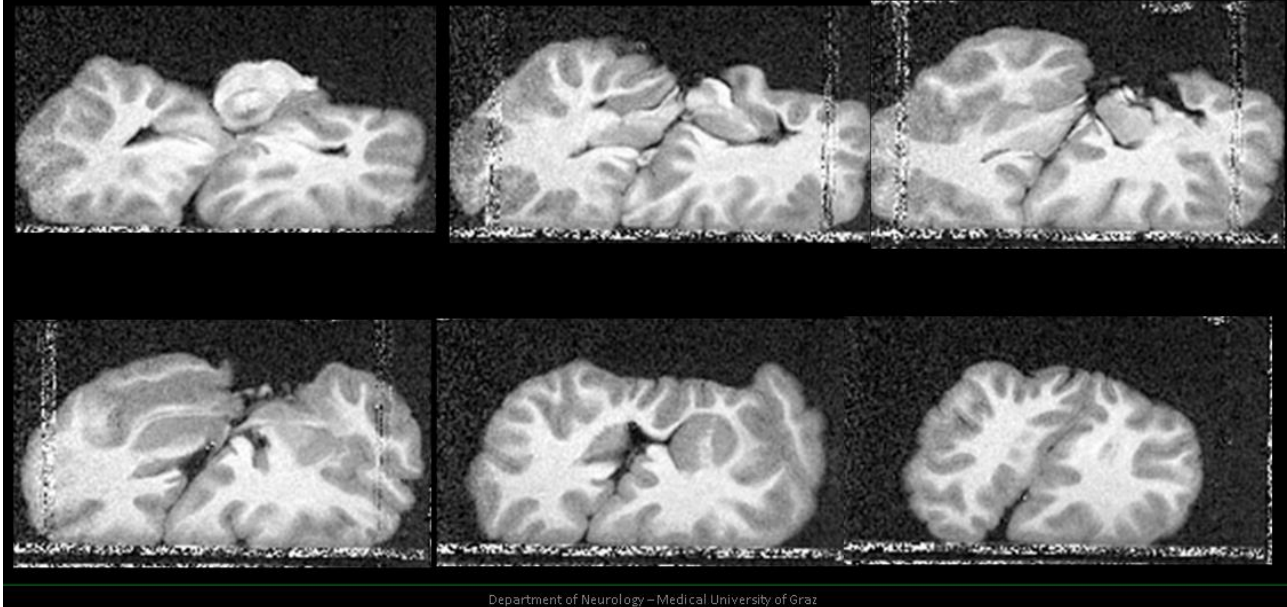
4. Material available (aliquot size) and storage conditions

Material	<input checked="" type="checkbox"/> Snap frozen tissue	<input type="checkbox"/> -80°C	<input checked="" type="checkbox"/> liq. N ₂
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5. Additional information

- ▶▶ **35 cases**
- ▶▶ **age range: 23 – 84, average = 66 years**
- ▶▶ **average timespan between death and analysis: 21 hours**

▶▶ MTR whole brain (exemplary case)



Analyzed regions:

- ▶▶ **Lobes: (left - right / WM – GM)**
 - Frontal
 - Temporal
 - Parietal
 - Occipital
- ▶▶ **Deep regions (left– right)**
 - Caudate
 - Putamen
 - Pallidum
 - Thalamus
 - Hippocampus
- ▶▶ **Cerebellum (left - right / WM – GM)**
- ▶▶ **Corpus Callosum**
- ▶▶ **Brainstem**
 - medulla oblongata, pons, mesencephalon, substantia nigra
- ▶▶ **WM lesions**