

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

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.

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.

The PIs of the MRT brain collection are interested in research collaborations from the following disciplines:

- 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: (mm/yyyy)	
	<input checked="" type="checkbox"/> Completed	
Inclusion criteria	Age distribution	23 - 84
	Sex distribution (f:m)	~ 50:50
	Others	-----
Earliest access	As of now	
Quality-standards	<input checked="" type="checkbox"/> ISO 9001:2015 (SOPs)	
Associated publications / references	-----	

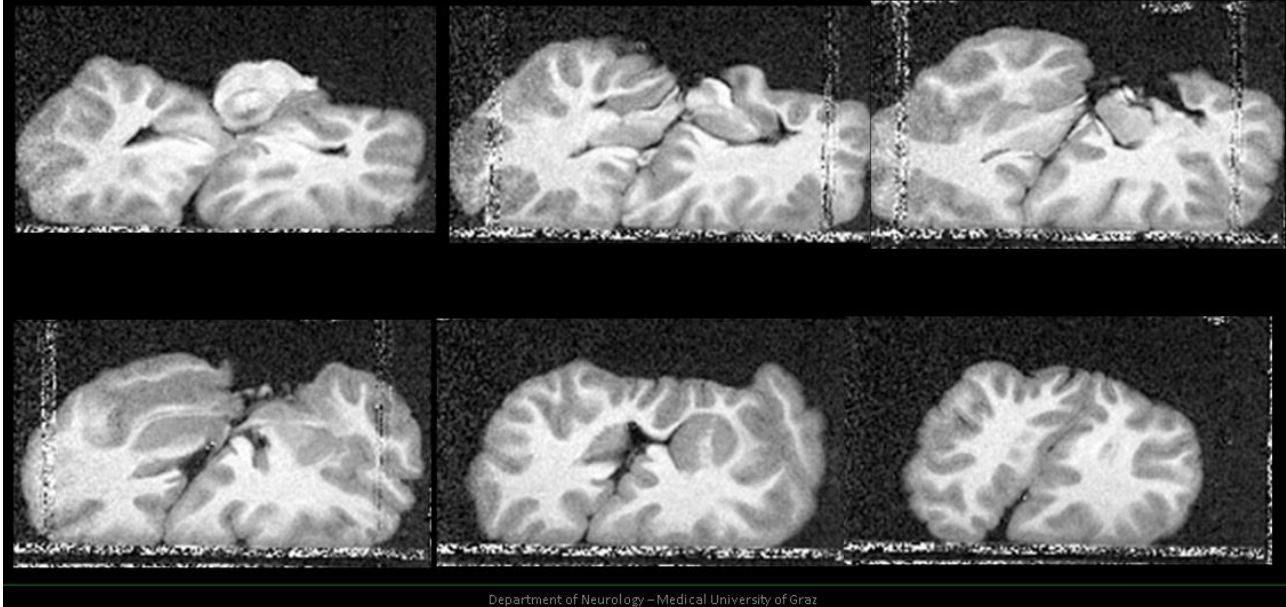
4. Material available (aliquot size) and storage conditions

Material	<input checked="" type="checkbox"/> Snap frozen tissue	<input 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**

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