

## 1. General Information

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| <b>Cohort ID</b>              | 5017_19  |
| <b>Title (Study Name)</b>     | Blood and Tears  |
| <b>Principal investigator</b> | Assoc. Prof. <sup>in</sup> Eva Reininghaus                             |
| <b>Contact information</b>    | <a href="mailto:pm-biobank@medunigraz.at">pm-biobank@medunigraz.at</a> |
| <b>Funding agency</b>         | Future Proposals   |

## 2. Description

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| Blood Collection for future biomarker search projects combined with machine-based learning approaches helping to distinguish in between psychiatric diagnostic entities (e.g. Bipolar versus Unipolar Depression) and between disease states (e.g. manic versus euthymic). |
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## 3. Details

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|---|---|---------|
| <b>ICD 10/O codes / Healthy</b>             | F02, F03, F04, F05, F06   |         |
| <b>Key words</b>                            | blood collection, affective disorders, schizophrenic disorders, anxiety, metabolomics, genetics, machine-based learning   |         |
| <b>Collection / Cohort size</b><br>12/2023  | 19.573 aliquots from 1.459 patients   |         |
| <b>Informed Consent (IC)</b>                | <input checked="" type="checkbox"/> Broad Biobank IC  |         |
|   | <input type="checkbox"/> Specific Study IC  |         |
| <b>Status</b>                               | <input checked="" type="checkbox"/> In progress / compl. date: open   |         |
|   | <input type="checkbox"/> Completed  |         |
| <b>Inclusion criteria</b>                   | <b>Age distribution</b>   | 18 - 80 |
|   | <b>Sex distribution (f:m)</b>   | 50:50   |
|   | <b>Others</b>   | F2 – F6 |
| <b>Earliest access</b>                      | As of now   |         |
| <b>Quality-standards</b>                    | <input checked="" type="checkbox"/> ISO 9001:2015 (SOPs)  |         |
| <b>Associated publications / references</b> | <u>Increased breakdown of kynurenine towards its neurotoxic branch in bipolar disorder.</u><br>Birner A, Platzer M, Bengesser SA, Dalkner N, Fellendorf FT, Queissner R, Pilz R, Rauch P, Maget A, Hamm C, Herzog-Eberhard S, Mangge H, Fuchs D, Moll N, Zelzer S, Schütze G, Schwarz M, Reininghaus B, Kapfhammer HP, Reininghaus EZ.<br><a href="https://pubmed.ncbi.nlm.nih.gov/28241062/">https://pubmed.ncbi.nlm.nih.gov/28241062/</a> |         |
|   | <u>The relationship between inflammatory state and quantity of affective episodes in bipolar disorder</u><br>Queissner R, Pilz R, Dalkner N, Birner A, Bengesser SA, Platzer M, Fellendorf FT, Kainzbauer N, Herzog-Eberhard S, Hamm C, Reininghaus B, Zelzer S, Mangge H, Mansur RB, McIntyre RS, Kapfhammer HP, Reininghaus EZ.<br><a href="https://pubmed.ncbi.nlm.nih.gov/29433074/">https://pubmed.ncbi.nlm.nih.gov/29433074/</a>      |         |

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|  | <p><u>Adiponectin is decreased in bipolar depression.</u><br/>Platzer M, Fellendorf FT, Bengesser SA, Birner A, Dalkner N, Hamm C, Hartleb R, Queissner R, Pilz R, Rieger A, Maget A, Mangge H, Zelzer S, Reininghaus B, Kapfhammer HP, Reininghaus EZ.<br/><a href="https://pubmed.ncbi.nlm.nih.gov/30047831/">https://pubmed.ncbi.nlm.nih.gov/30047831/</a></p> <p><u>Endoplasmic reticulum stress in bipolar disorder? - BiP and CHOP gene expression- and XBP1 splicing analysis in peripheral blood.</u><br/>Bengesser SA, Reininghaus EZ, Dalkner N, Birner A, Hohenberger H, Queissner R, Fellendorf F, Platzer M, Pilz R, Hamm C, Rieger A, Kapfhammer HP, Mangge H, Reininghaus B, Meier-Allard N, Stracke A, Fuchs R, Holasek S.<br/><a href="https://pubmed.ncbi.nlm.nih.gov/29843019/">https://pubmed.ncbi.nlm.nih.gov/29843019/</a></p> |
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#### 4. Material available (aliquot size) and storage conditions

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|-----------------|--|---|
| <b>Material</b> | <input checked="" type="checkbox"/> Serum (580 µl)           | <input checked="" type="checkbox"/> -80°C |
|                 | <input checked="" type="checkbox"/> EDTA plasma (580 µl)     | <input checked="" type="checkbox"/> -80°C |
|                 | <input checked="" type="checkbox"/> EDTA Buffy coat (300 µl) | <input checked="" type="checkbox"/> -80°C |

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| <b>Dokument erstellt</b> (tt/mm/yyyy):<br>23/04/2021 | <b>Letzte inhaltliche Aktualisierung</b> (tt/mm/yyyy):<br>20/03/2024 |
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