

BBMRI.at Partner's Sample Collection Profile

"PoCOsteo" osteoporosis cohort

an outstanding osteoporosis sample collection at Biobank Graz, Med Uni Graz

"PoCOsteo" stands for Point-of-care in-office device for identifying individuals at high risk of Osteoporosis and osteoporotic fracture.

It is being collected (starting May 2018) in the context of the HORIZON 2020 project PoCOsteo (Proposal number 767325) which aims at developing point-of-care in-vitro devices to measure and/or quantify proteomic and genomic factors in human whole blood.

The clinical cohort includes male and female patients fifty years and above and ranges from healthy (per definition) to those who experienced multiple fragility fractures due to secondary osteoporosis.

It comprises untreated patients as well as those treated for osteoporosis, with or without concomitant diseases such as hypertension, diabetes etc.

The samples meet the requirements of the sample quality standards "CEN/TC 140 Molecular in vitro diagnostic examinations - Specifications for preexamination processes (CEN/TS) for metabolomics in urine, venous blood serum and plasma" (CEN/TS 16945:2016) that were published by the European Committee for Standardization (CEN). [More about sample types and quality in our BBMRI.at Catalogue >>](#)



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Profile of the PoCOsteo Cohort:

Disease Area	Endocrinology, osteoporosis, osteoporotic fractures
Research Area	Biomarker development & detection
Sample Types	Serum, EDTA-plasma and buffy coat (stored at -80°C)
Cohort Size	<ul style="list-style-type: none"> 1,000 probands Collection start in May 2018 - collection ongoing
Donors	<ul style="list-style-type: none"> Healthy and diseased, treated and untreated for osteoporosis with or without concomitant diseases (e.g. hypertension, diabetes, ...) Age: adults > 50 years; Gender: female and male
Associated Data	From the following time-points: study inclusion, after 12 and possibly 24 months: bone mineral density (BMD) of the hip and the lumbar spine as well as vertebral fracture assessment (VFA) by Dual X-ray absorptiometry (DXA), grip strength (hydraulic hand dynamometer), and a routine blood test including renal and hepatic parameters together with a lipid profile
Informed Consent	Broad Biobank IC (view template >>) & specific study IC
Access	Cooperation preferred
Quality Standards	<ul style="list-style-type: none"> Sample quality: CEN/TS 16945:2016 - Molecular in vitro diagnostic examinations. Specifications for pre-examination processes for metabolomics in urine, venous blood serum and plasma Quality management: ISO 9001:2015 (SOPs)
Contact	<ul style="list-style-type: none"> Principle investigator: Hans Dimai, Medical University of Graz, Department of Internal Medicine, Division of Endocrinology and Metabolism Email: biobank-pm@medunigraz.at, hans.dimai@medunigraz.at

[More details about the PoCOsteo Cohort >>](#)

[View PoCOsteo cohort profile form of Biobank Graz >>](#)



European
Commission

Horizon 2020
European Union funding
for Research & Innovation



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