

1. General Information

Cohort ID	5001_11
Title (Study Name)	LBI LVR Pulmonary Vascular Collection
Principal investigator	Prof.in Grazyna Kwapiszewska-Marsh
Contact information	pm-biobank@medunigraz.at
Funding agency	Ludwig Boltzmann Gesellschaft / MUG / Bayer for LBI LVR

2. Description

In cooperation with the Ludwig Boltzmann Institute for Lung Vascular Research (LBI-LVR), blood samples, lung tissues from transplanted patients as well as primary cell lines (fibroblasts and smooth muscle cells) have been collected from patients with pulmonary hypertension (PH) or at risk for PH and stored at the biobank.

3. Details

ICD 10/O codes / Healthy	I27.0	
Key words	pulmonary cells, blood, tissue, PH	
Collection / Cohort size 12/2023	<u>Blood & derivatives:</u> 62.116 aliquots from 1.739 patients <u>Other samples collected from lung (Vein, PA, fibroblasts, Smooth muscle cells):</u> 16.734 aliquots	
Informed Consent (IC)	<input checked="" type="checkbox"/> Broad Biobank IC	
	<input type="checkbox"/> Specific Study IC	
Status	<input checked="" type="checkbox"/> In progress / compl. date: open	
	<input type="checkbox"/> Completed	
Inclusion criteria	Age distribution	18 - 99
	Sex distribution (f:m)	~ 50:50
	Others	Patients with PH or at risk for PH
Earliest access	As of now	
Quality-standards	<input checked="" type="checkbox"/> ISO 9001:2015 (SOPs)	
Associated publications / references	<u>CD133+ cells in pulmonary arterial hypertension.</u> Foris V, Kovacs G, Marsh LM, Bálint Z, Tötsch M, Avian A, Douschan P, Ghanim B, Klepetko W, Olschewski A, Olschewski H. https://pubmed.ncbi.nlm.nih.gov/27103380 <u>The inflammatory cell landscape in the lungs of patients with idiopathic pulmonary arterial hypertension.</u> Marsh LM, Jandl K, Grünig G, Foris V, Bashir M, Ghanim B, Klepetko W, Olschewski H, Olschewski A, Kwapiszewska G. https://pubmed.ncbi.nlm.nih.gov/29371380/ <u>Compartment-specific expression of collagens and their processing enzymes in intrapulmonary arteries of IPAH patients.</u>	

Hoffmann J, Marsh LM, Pieper M, Stacher E, Ghanim B, Kovacs G, König P, Wilkens H, Haitchi HM, Hoefler G, Klepetko W, Olschewski H, Olschewski A, Kwapiszewska G.
<https://pubmed.ncbi.nlm.nih.gov/25840998/>

4. Material available (aliquot size) and storage conditions

Material	<input checked="" type="checkbox"/> Serum (235 µl)	<input checked="" type="checkbox"/> -80°C	<input type="checkbox"/> liq. N ₂
	<input checked="" type="checkbox"/> EDTA Whole blood (580 µl)	<input checked="" type="checkbox"/> -80°C	<input type="checkbox"/> liq. N ₂
	<input checked="" type="checkbox"/> Li-Hep plasma (235 µl)	<input checked="" type="checkbox"/> -80°C	<input type="checkbox"/> liq. N ₂
	<input checked="" type="checkbox"/> Cells (fibroblasts, smooth muscle cells)	<input type="checkbox"/> -80°C	<input checked="" type="checkbox"/> liq. N ₂
	<input checked="" type="checkbox"/> Snap frozen tissue	<input type="checkbox"/> -80°C	<input checked="" type="checkbox"/> liq. N ₂

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20/03/2024