

1. General Information

Cohort ID	5002_14
Title (Study Name)	Placenta & Cord Blood Collection
Principal investigator	Prof.in Mila Cervar-Zivkovic
Contact information	pm-biobank@medunigraz.at
Funding agency	-----

2. Description

<p>Fresh frozen placental tissue, umbilical cord blood (venous and arterial) as well as maternal blood samples have been collected from pregnant women at the time of delivery.</p> <p>The sample donors comprise a control group as well as a group with pregnancy disorders, such as diabetes, IUGR or preeclampsia, as well as preterm delivery (see inclusion criteria).</p> <p>The sample collection at the Department of Obstetrics and Gynecology followed a standard operating procedure (SOP). => Details in section 5.</p>

3. Details

ICD 10/O codes / Healthy	-----	
Key words	placenta, umbilical cord blood, biomarkers, pregnancy disorders	
Collection / Cohort size	<p>Blood (cord blood, maternal blood): 1.111 aliquots collected from 72 women</p> <p>Fresh frozen placental tissues: 2.411 samples from 238 women</p>	
Informed Consent (IC)	<input checked="" 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	women of childbearing age
	Sex distribution (f:m)	100% female
	Others	<ul style="list-style-type: none"> ➤ Cervical insufficiency without signs of inflammation and infection ➤ Therapy refractory contractions - Activity without signs of inflammation ➤ Placenta $\geq 37+0$ SSW ➤ Diabetes (DM I, DM II, GDM) ➤ IUGR < 5% ➤ Premature birth $\leq 34 + 0$ SSW ➤ Preeclampsia, eclampsia, HELLP syndrome, graft preeclampsia ➤ Hypertension <p>Control group (normal pregnancies)</p>
Earliest access	As of now	
Quality-standards	<input checked="" type="checkbox"/> ISO 9001:2015 (SOPs)	

Associated publications / references	-----
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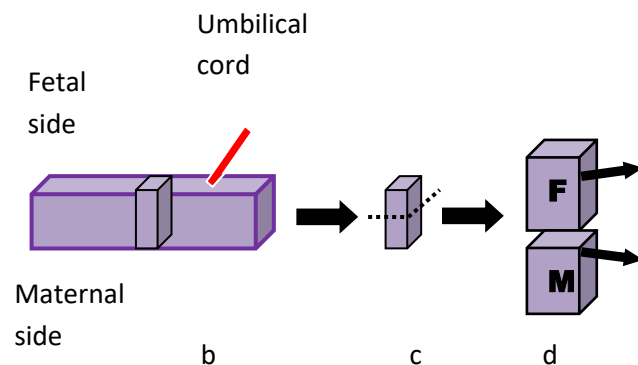
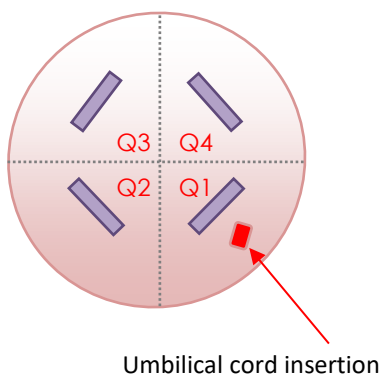
4. Material available (aliquot size) and storage conditions

Material	<input checked="" type="checkbox"/> Serum (235 µl, 580 µl)	<input checked="" type="checkbox"/> -80°C	<input type="checkbox"/> liq. N ₂
	<input checked="" type="checkbox"/> EDTA plasma (580 µl) (arterial and venous cord blood)	<input checked="" type="checkbox"/> -80°C	<input type="checkbox"/> liq. N ₂
	<input checked="" type="checkbox"/> EDTA Buffy coat (300 µl)	<input checked="" type="checkbox"/> -80°C	<input type="checkbox"/> liq. N ₂
	<input checked="" type="checkbox"/> Snap frozen placental tissue	<input type="checkbox"/> -80°C	<input checked="" type="checkbox"/> liq. N ₂

5. Additional Information

Tissue Collection

→ Placenta tissue samples were collected from 4 localizations (Q1 – Q4) according to the scheme below. For each localization, both fetal and maternal sides of placenta were collected in cryo tubes.



Blood Collection

→ Blood collection from the mother at the time of birth.

→ Collection of both arterial and venous umbilical cord blood from the placenta.

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15/02/2022