

1. General Information

Cohort ID	5002_14
Title (Study Name)	Placenta & Cord Blood collection Pregnancy disorders and normal pregnancies
Principal investigator	Prof. Mila Cervar-Zivkovic
Contact information	pm-biobank@medunigraz.at
Funding agency	-----

2. Description

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.

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).

The sample collection at the Department of Obstetrics and Gynecology followed a standard operating procedure (SOP). => Details in section 5.

3. Details

ICD 10/O codes / Healthy	-----	
Key words	placenta, umbilical cord blood, biomarkers, pregnancy disorders	
Collection / Cohort size 12/2018	Blood (cord blood, maternal blood): 1.111 aliquots collected from 74 women Fresh frozen placental tissues: 2.411 samples from 238 women	
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
	<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 ➤ Control group (normal pregnancies) 	
Access type	<input type="checkbox"/> Cooperation only <input checked="" type="checkbox"/> Cooperation preferred	
Earliest access	07/2019	
Quality-standards	<input type="checkbox"/> CEN/TS <input checked="" type="checkbox"/> ISO 9001:2015 (SOPs)	
Associated publications / references	-----	

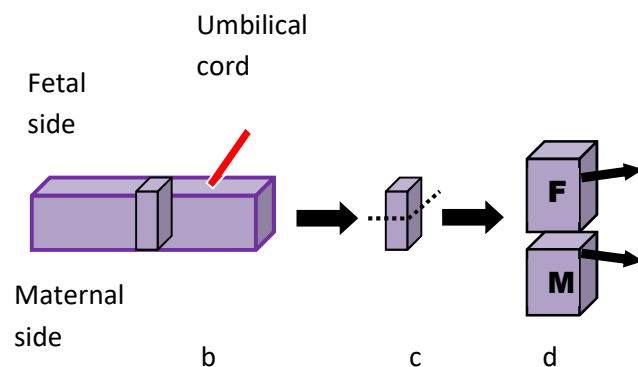
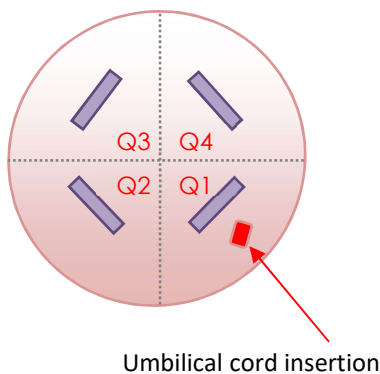
4. Material available (aliquot size) and storage conditions

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

Erstellt am 18.05.2020