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KAPP-Sen TMC: Term Placental Tissue Collection

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Cellular Senescence Net... KAPP-Sen TMC

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Protocol status: Working
We use this protocol and it's working

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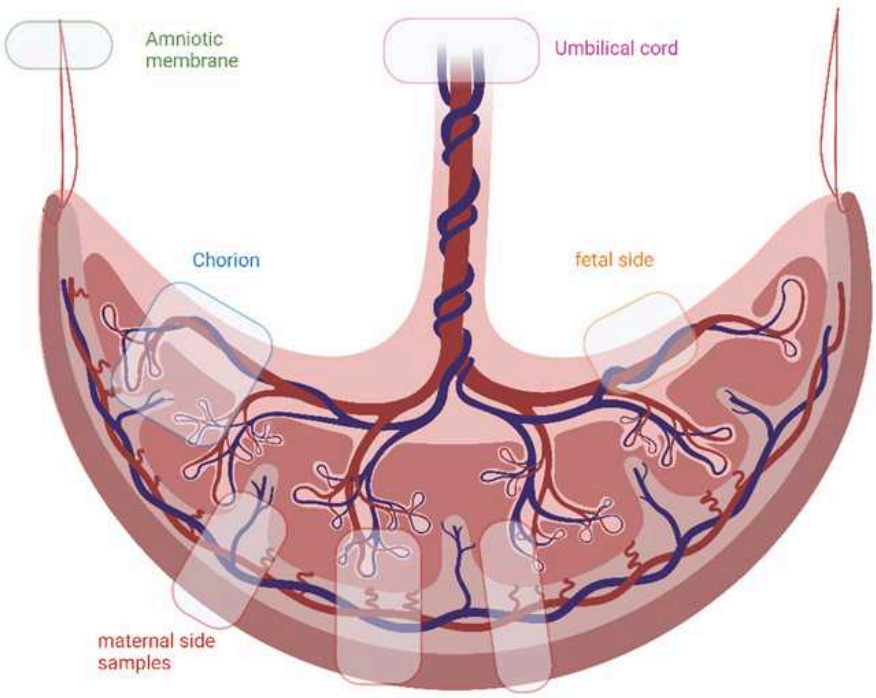
Abstract

The placenta samples are obtained within 15 minutes after delivery. As soon as the placenta is delivered it is placed in the box at room temperature and brought to the room where the samples are collected and labelled. Approximate time needed to complete the collection is 30 minutes.

Troubleshooting

1



Approximate site of collection.

2 Maternal side samples were collected within 3-5 cm range from the place where UC would be projected, cut into ~1 cm cubes and placed either in the cold MACS or cassettes with 10% buffered formalin.

3 Dissection of the fetal side of the placenta were made within 3-5 cm range from the UC and cut into ~1 cm cubes and placed either in the cold MACS or cassettes with 10% buffered formalin.

4 For the umbilical cord we cut the part that was closest to the baby. A total of ~3cm was cut and divided into the smaller pieces. The samples were immediately stored either in the cold MACS or cassettes with 10% buffered formalin.

5 Chorion was sampled from the fetal side per the instructions of Dr. Santos. It may contain the pieces of amniotic membrane as it was difficult to remove one from the other. A 3 cm cube was removed and divided into three smaller pieces which were stored as described in the previous steps. Note: fetal side=chorion

6 For the amniotic membrane we collected the very distant section that was wrapped around baby (edge). Same storage/transfer to the lab.

7 Upon arriving to the lab, all samples were prepared for shipping. Tissue stored in the cold MACS was transferred to new tubes wither with fresh, cold MACS (for scRNAseq) or flash frozen (for snRNAseq). Cassettes initially placed in the formalin jar were transferred to new formalin jars.