Authors wish to thank the Reviewer very much for reading the manuscript and providing valuable comments. Below, please, find our reply to the Reviewer comments.

There are minor concerns

1. Did women with IUGR also undergo Cesarean Section before the onset of labor?

IUGR-affected placentas for the study group were collected from patients who underwent an elective or immediate cesarean section, due to the symptoms of the insufficiency of the fetal circulation or the abruption of the placenta. This missing information was included in the Materials and Methods section (lines 586 – 588).

2. Fetal sex should be described in all samples.

Information regarding fetal sex was provided in Table 1.

3. The discussion is excessively long and should be shortened.

We have to admit that discussion is extensive. Due to the Reviewer suggestion, we have made every attempt to shorten this section, but we came to the conclusion that it is a reflection of the number of obtained results, and appropriate, valid discussion is needed. We respect the Reviewer opinion in this manner, but we were not able to shorten the Discussion.