

Supplementary Material

Sphingolipid signature of human feto-placental vasculature in preeclampsia

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	PN	PE	P value
Age (years)	33±2.9	29.8±4.4	n.s.
Gestational age (weeks)	36.7±1.8	34.4±3.6	n.s
BMI (kg/m ²)	22.3±2.5	23.9±1.9	n.s
SBP (mmHg)	113.6±12.1	160.5±10.5	p = 0.0003***
DBP (mmHg)	76.3±7	103.4±10.3	p = 0.0004***
Proteinuria (mg/24h)	-	954.5±350.5	-
sFlt-1/PlGF ratio	-	323.1±211.9	-
Placental weight (g)	680±156.3	415.7±104.4	p = 0.0015**
Fetal PI (kg/m ³)	2.5±0.2	2.4±0.2	n.s

Supplementary Table 1. Subjects characteristics of collected placentae for chorionic arteries and fPAECs isolation. Abbreviations: BMI = body-mass index; SBP = systolic blood pressure; DBP = Diastolic blood pressure; sFlt= Soluble fms-like tyrosine kinase 1(pg/ml); PlGF= Placental growth factor (pg/ml); PI= Fetal ponderal index is a comparable of BMI in adult subjects but relates weight to the cubed body length. All data are presented as mean±SD.

Probe	Forward (5'-3')	Reverse (5'-3')
SPTLC1	AGTGGGTTCTGGTGGAGATG	CAAGAGGTTCTGGTTGCCAC
SPTLC2	CCCCTGACCAAGTTACCTGT	TCGCTTCACAGTCATCCAGT
SPHK1	CCTGGGCAGTGAGATGTTTG	CTGCAAACACACCTTTCCCA
SPHK2	GACAGAACGACAGAACCACG	AGGCATCTTCACAGCTTCCT
SGPP1	GATCTGGAACCTGGACCCTC	ATAGAAATGGGGATGGCGGT
SGPL1	CGAGATGACAAATGGGGCAG	GCGACCTATTGAAGTGCCTG
SPNS2	GAAGGCCCTGATTCGAAACC	CGCCCAGAAATCCCGTAAAG
S1PR1	CGGCATTACAACCTACACGGG	CCCCAGACAAGAGCAGGTTA
S1PR2	TTTTCTTCCCTGGCCCCTAG	TGTGGATTTGGGCTCTGGAT
S1PR3	CTGCTGACATCATCCACTGC	GCATCCATTCTACGCACAGG
RTN4B (Nogo-B)	CCTGCTCTCTGTGACCATCA	GCGCCTGAGTTCCTTTATCG
18S	CTACCACATCCAAGGAAGCA	TTTTTCGTCACTACCTCCCCG
HPRT1	CATTATGCTGAGGATTTGGAAAGG	CTTGAGCACACAGAGGGCTACA

Supplementary Table 2. Primers sequences for real-time PCR