

**Original Article**

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# **Cord Blood Metabolome Is Highly Associated with Birth Weight, but Less Predictive for Later Weight Development**

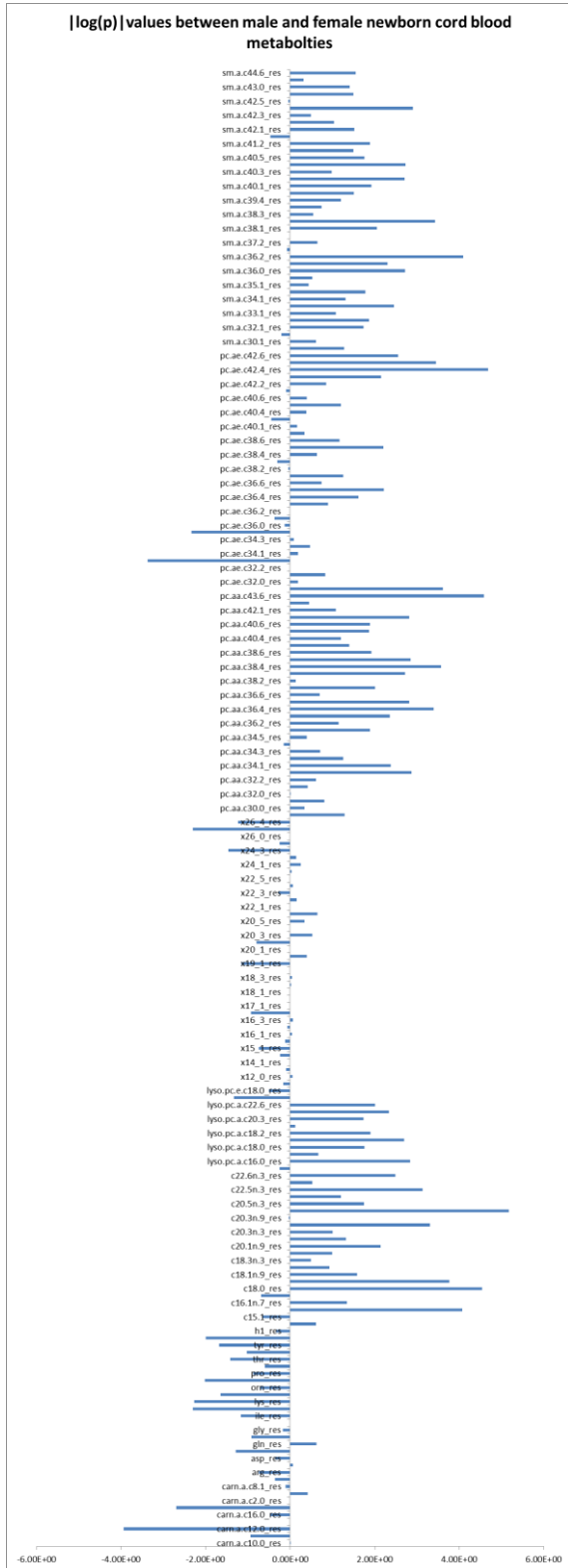
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## **Supplemental Material**

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**Supplemental fig. 1** Cord blood metabolite levels of male and female newborns were compared by Mann Whitey U test.



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**Supplemental table 1** Cord blood metabolite levels of male and female newborns were compared by Mann Whitey U test.

<b>Metabolite</b>	<b>Median (range) females [μmol/l]</b>	<b>Median (range) males [μmol/l]</b>	<b>Variation</b>	<b>p Mann Witney U</b>
AC C10:0	0.130 (0.044-0.291)	0.128 (0.043-0.394)	2%	9.69E-01
AC C10:1	0.38 (0.12-1.24)	0.403 (0.088-1.611)	-6%	1.15E-01
AC C12:0	0.095 (0.023-0.307)	0.107 (0.025-0.289)	-13%	1.13E-04
AC C14:1	0.087 (0.024-0.295)	0.087 (0.034-0.271)	0%	5.06E-01
AC C16:0	0.137 (0.046-0.584)	0.141 (0.047-0.579)	-3%	3.36E-01
AC C18:1	0.109 (0.033-0.383)	0.119 (0.022-0.470)	-9%	2.00E-03
AC C2:0	4.3 (1.9-10.2)	4.3 (2.1-12.5)	0%	6.08E-01
AC C3:0	0.38 (0.11-1.01)	0.37 (0.10-0.84)	3%	3.82E-01
AC C8:1	0.048 (0.009-0.176)	0.050 (0.009-0.201)	-4%	7.88E-01
Ala	577 (310-1385)	598 (293-1268)	-4%	4.38E-01
Arg	55 (11-192)	56.0 (9.9-151.7)	-2%	1.83E-01
Asn	61 (29-127)	59 (19-123)	3%	8.49E-01
Asp	84 (25-257)	85 (19-288)	-1%	4.35E-01
C14:0	3.8 (2.0-7.7)	3.7 (2.1-7.9)	3%	2.45E-01
C15:1	0.45 (0.17-1.72)	0.46 (0.19-1.55)	-2%	2.23E-01
C16:0	188 (126-305)	182 (119-280)	3%	8.44E-05
C16:1 n7	10.2 (5.9-19.9)	10.0 (5.1-21.8)	2%	4.55E-02
C17:0	2.1 (1.1-4.6)	2.2 (1.2-4.7)	-5%	2.07E-01

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C18:0	104 (67-171)	99 (67-163)	5%	2.85E-05
C18:1 n7	17 (11-32)	16 (10-26)	6%	1.71E-04
C18:1 n9	61 (40-96)	58 (37-94)	5%	2.58E-02
C18:2 n6	52 (29-93)	51 (27-104)	2%	1.18E-01
C18:3 n3	0.54 (0.19-2.14)	0.52 (0.15-2.14)	4%	3.21E-01
C18:3 n6	1.21 (0.58-2.91)	1.18 (0.54-2.68)	2%	1.02E-01
C20:1 n9	0.60 (0.32-1.95)	0.57 (0.24-1.89)	5%	7.28E-03
C20:2 n6	2.5 (1.2-5.9)	2.4 (1.3-6.0)	4%	4.79E-02
C20:3 n3	1.20 (0.54-3.15)	1.13 (0.54-3.32)	6%	9.91E-02
C20:3 n6	32 (18-57)	31 (17-56)	3%	4.88E-04
C20:3 n9	3.12 (0.87-11.90)	3.2 (1.1-11.5)	-3%	9.21E-01
C20:4 n6	111 (66-185)	104 (65-179)	6%	6.66E-06
C20:5 n3	2.09 (0.75-7.88)	1.90 (0.77-7.86)	9%	1.77E-02
C22:4 n6	4.9 (2.4-10.8)	4.7 (2.4-10.2)	4%	6.26E-02
C22:5 n3	3.2 (1.1-10.9)	2.93 (0.91-10.05)	8%	7.29E-04
C22:5 n6	6.2 (2.8-15.8)	6.1 (2.6-17.1)	2%	2.96E-01
C22:6 n3	44 (20-81)	42 (19-84)	5%	3.21E-03
Cit	15.9 (6.8-48.8)	16.3 (8.1-62.2)	-3%	5.18E-02
Gln	265 (84-634)	261 (56-684)	2%	2.38E-01
Glu	437 (180-866)	443 (184-804)	-1%	1.21E-01
Gly	407 (235-914)	415 (217-948)	-2%	6.71E-01

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H1	1682 (71-14188)	1773 (76-11293)	-5%	4.57E-01
His	137 (66-288)	137 (74-245)	0%	7.05E-01
Ile	77 (46-133)	80 (42-147)	-4%	6.77E-02
Leu	160 (94-284)	166 (92-289)	-4%	4.96E-03
LPCa C14:0	1.79 (0.47-3.91)	1.80 (0.67-3.93)	-1%	5.64E-01
LPCa C16:0	63 (24-155)	59 (26-129)	6%	1.45E-03
LPCa C16:1	4.7 (1.6-9.3)	4.5 (1.9-10.3)	4%	2.16E-01
LPCa C18:0	11.7 (4.3-33.9)	10.9 (5.7-25.4)	7%	1.76E-02
LPCa C18:1	11.5 (3.6-26.9)	10.9 (4.1-22.9)	5%	1.99E-03
LPCa C18:2	13.4 (4.7-29.3)	12.6 (4.6-27.3)	6%	1.26E-02
LPCa C18:3	0.330 (0.066-1.036)	0.325 (0.057-1.033)	2%	7.49E-01
LPCa C20:3	3.7 (1.2-8.2)	3.4 (1.1-7.9)	8%	1.81E-02
LPCa C20:4	16.6 (5.8-37.0)	15.8 (5.4-33.2)	5%	4.59E-03
LPCa C22:6	2.57 (0.72-5.63)	2.46 (0.73-4.90)	4%	9.88E-03
LPCe C16:0	0.74 (0.26-1.68)	0.79 (0.23-1.76)	-7%	4.63E-02
LPCe C18:0	0.89 (0.23-2.40)	0.92 (0.30-3.12)	-3%	3.16E-01
LPCe C18:1	0.55 (0.16-1.52)	0.56 (0.19-1.39)	-2%	6.83E-01
Lys	350 (194-637)	367 (211-695)	-5%	5.41E-03
Met	39 (22-93)	41 (15-87)	-5%	2.26E-02
NEFA C12:0	2.07 (0.34-9.54)	2.05 (0.36-15.66)	1%	8.84E-01
NEFA C14:0	6.0 (1.3-20.8)	6.2 (1.2-22.3)	-3%	7.97E-01

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NEFA C14:1	1.20 (0.18-4.47)	1.20 (0.18-5.84)	0%	7.10E-01
NEFA C15:0	0.94 (0.27-2.94)	1.00 (0.26-3.24)	-6%	5.71E-01
NEFA C15:1	0.086 (0.017-0.256)	0.090 (0.014-0.521)	-5%	1.83E-01
NEFA C16:0	64 (29-198)	66 (27-143)	-3%	7.63E-01
NEFA C16:1	8.4 (1.7-42.9)	8.3 (1.7-45.2)	1%	8.95E-01
NEFA C16:2	0.257 (0.090-0.899)	0.265 (0.076-0.833)	-3%	8.53E-01
NEFA C16:3	0.174 (0.073-0.618)	0.172 (0.062-0.488)	1%	8.51E-01
NEFA C17:0	1.05 (0.48-2.52)	1.08 (0.46-2.66)	-3%	1.19E-01
NEFA C17:1	0.48 (0.15-1.32)	0.48 (0.14-1.51)	0%	1.99E-01
NEFA C18:0	24 (11-57)	24 (13-52)	0%	4.29E-01
NEFA C18:1	45 (16-141)	45 (16-132)	0%	9.26E-01
NEFA C18:2	16.9 (5.7-52.5)	16.8 (4.8-49.2)	1%	9.60E-01
NEFA C18:3	1.14 (0.30-3.87)	1.11 (0.25-4.30)	3%	9.01E-01
NEFA C18:4	0.032 (0.005-0.128)	0.032 (0.005-0.175)	0%	9.57E-01
NEFA C19:1	0.131 (0.043-0.367)	0.134 (0.054-0.352)	-2%	7.04E-02
NEFA C20:0	0.155 (0.071-0.344)	0.154 (0.063-0.394)	1%	4.01E-01
NEFA C20:1	0.38 (0.14-0.97)	0.38 (0.14-0.92)	0%	9.00E-01
NEFA C20:2	0.45 (0.18-1.69)	0.47 (0.17-1.64)	-4%	1.59E-01
NEFA C20:3	1.35 (0.42-3.60)	1.28 (0.65-4.13)	5%	2.98E-01
NEFA C20:4	4.9 (1.6-13.9)	4.9 (1.8-18.1)	0%	2.47E-01
NEFA C20:5	0.184 (0.048-0.794)	0.180 (0.052-1.037)	2%	4.52E-01

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NEFA C22:0	0.052 (0.013-0.276)	0.050 (0.014-0.240)	4%	2.25E-01
NEFA C22:1	0.046 (0.012-0.122)	0.046 (0.011-0.172)	0%	9.30E-01
NEFA C22:2	0.035 (0.015-0.087)	0.034 (0.017-0.094)	3%	7.00E-01
NEFA C22:3	0.126 (0.049-0.341)	0.128 (0.042-0.378)	-2%	5.31E-01
NEFA C22:4	0.57 (0.23-1.51)	0.55 (0.31-1.86)	4%	8.50E-01
NEFA C22:5	0.64 (0.28-1.75)	0.64 (0.29-1.97)	0%	9.73E-01
NEFA C22:6	3.0 (1.3-9.1)	2.9 (1.4-8.7)	3%	9.34E-01
NEFA C24:1	0.192 (0.099-0.362)	0.19 (0.10-0.41)	1%	5.66E-01
NEFA C24:2	0.059 (0.031-0.100)	0.057 (0.027-0.105)	3%	7.23E-01
NEFA C24:3	0.029 (0.014-0.070)	0.031 (0.015-0.066)	-7%	3.46E-02
NEFA C24:4	0.104 (0.046-0.287)	0.105 (0.051-0.254)	-1%	5.61E-01
NEFA C26:0	0.010 (0.004-0.040)	0.010 (0.004-0.030)	0%	5.07E-01
NEFA C26:3	0.022 (0.011-0.045)	0.023 (0.009-0.049)	-5%	5.04E-03
NEFA C26:4	0.044 (0.021-0.084)	0.045 (0.022-0.107)	-2%	5.84E-02
Orn	173 (62-463)	176 (59-436)	-2%	1.91E-01
PCa C28:2	0.061 (0.015-0.210)	0.056 (0.011-0.173)	8%	5.14E-02
PCa C30:0	3.2 (1.1-8.3)	2.98 (0.98-7.67)	7%	4.60E-01
PCa C30:2	0.42 (0.16-0.93)	0.40 (0.15-1.51)	5%	1.54E-01
PCa C32:0	16.1 (6.1-36.1)	15.9 (6.5-41.2)	1%	9.61E-01
PCa C32:1	13.8 (4.1-40.4)	13.7 (3.5-36.4)	1%	3.85E-01
PCa C32:2	1.20 (0.49-2.55)	1.18 (0.42-2.74)	2%	2.41E-01

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PCa C32:3	0.63 (0.18-1.34)	0.58 (0.22-1.48)	8%	1.35E-03
PCa C34:1	126 (54-356)	119 (43-229)	6%	4.11E-03
PCa C34:2	81 (40-212)	76 (31-198)	6%	5.54E-02
PCa C34:3	3.8 (1.2-8.8)	3.7 (1.3-8.4)	3%	1.97E-01
PCa C34:4	0.58 (0.20-1.58)	0.59 (0.18-1.51)	-2%	7.14E-01
PCa C34:5	0.089 (0.017-0.346)	0.085 (0.014-0.382)	4%	4.04E-01
PCa C36:1	23 (11-44)	21.3 (9.1-44.3)	7%	1.30E-02
PCa C36:2	46 (21-87)	44 (21-86)	4%	7.16E-02
PCa C36:3	64 (24-139)	62 (17-125)	3%	4.34E-03
PCa C36:4	150 (64-298)	142 (60-284)	5%	3.96E-04
PCa C36:5	4.2 (1.5-11.6)	3.9 (1.3-10.2)	7%	1.51E-03
PCa C36:6	0.344 (0.060-1.114)	0.332 (0.096-0.822)	3%	1.97E-01
PCa C38:0	1.58 (0.52-3.96)	1.50 (0.51-3.97)	5%	9.68E-03
PCa C38:2	3.31 (0.69-9.53)	3.22 (0.78-14.09)	3%	7.38E-01
PCa C38:3	40 (19-76)	37 (16-75)	8%	1.92E-03
PCa C38:4	114 (52-220)	107 (50-235)	6%	2.70E-04
PCa C38:5	25 (12-55)	24 (11-49)	4%	1.40E-03
PCa C38:6	71 (31-148)	67 (25-143)	6%	1.20E-02
PCa C40:0	0.69 (0.15-2.06)	0.65 (0.16-1.71)	6%	4.01E-02
PCa C40:4	3.7 (1.5-8.7)	3.5 (1.5-7.7)	5%	6.31E-02
PCa C40:5	7.1 (2.7-17.5)	6.8 (2.1-17.2)	4%	1.34E-02



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PCa C40:6	30 (12-82)	29 (11-62)	3%	1.27E-02
PCa C42:0	0.75 (0.14-1.96)	0.67 (0.18-1.66)	11%	1.54E-03
PCa C42:1	0.53 (0.18-1.20)	0.51 (0.19-1.30)	4%	8.36E-02
PCa C42:5	0.48 (0.13-1.12)	0.45 (0.16-1.11)	6%	3.57E-01
PCa C43:6	1.08 (0.36-2.68)	0.97 (0.28-2.29)	10%	2.57E-05
PCa C44:12	0.55 (0.18-2.22)	0.50 (0.16-1.82)	9%	2.42E-04
PCe C32:0	2.9 (1.2-8.7)	2.8 (1.1-7.8)	3%	6.54E-01
PCe C32:1	3.1 (1.2-7.5)	3.0 (1.3-6.8)	3%	1.47E-01
PCe C32:2	0.94 (0.25-3.97)	0.94 (0.25-2.68)	0%	1.68E-01
PCe C34:0	1.29 (0.35-4.18)	1.40 (0.49-3.99)	-9%	4.28E-04
PCe C34:1	5.3 (2.2-10.9)	5.2 (2.2-12.0)	2%	6.49E-01
PCe C34:2	3.1 (1.2-5.9)	3.0 (1.4-6.2)	3%	3.42E-01
PCe C34:3	1.26 (0.38-3.04)	1.24 (0.39-3.04)	2%	8.15E-01
PCe C34:4	0.062 (0.008-0.223)	0.074 (0.008-0.268)	-19%	4.65E-03
PCe C36:0	0.70 (0.22-1.63)	0.71 (0.24-1.72)	-1%	7.45E-01
PCe C36:1	3.3 (1.3-8.5)	3.4 (1.1-8.7)	-3%	4.24E-01
PCe C36:2	2.9 (1.2-6.2)	2.9 (1.3-6.9)	0%	5.38E-01
PCe C36:3	2.01 (0.81-3.87)	1.92 (0.73-5.18)	4%	1.26E-01
PCe C36:4	8.9 (3.9-20.3)	8.7 (4.2-17.5)	2%	2.42E-02
PCe C36:5	6.5 (3.0-15.3)	6.2 (2.5-11.6)	5%	6.09E-03
PCe C36:6	0.081 (0.002-0.378)	0.075 (0.002-0.312)	7%	1.81E-01

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PCe C38:0	1.33 (0.52-5.66)	1.26 (0.36-3.47)	5%	5.58E-02
PCe C38:2	0.84 (0.14-3.22)	0.85 (0.16-3.47)	-1%	9.07E-01
PCe C38:3	3.2 (1.1-14.3)	3.28 (0.92-9.39)	-2%	4.95E-01
PCe C38:4	9.7 (4.7-19.3)	9.6 (4.7-18.8)	1%	2.30E-01
PCe C38:5	7.3 (3.2-16.2)	6.8 (3.2-13.6)	7%	6.25E-03
PCe C38:6	3.6 (1.3-8.4)	3.5 (1.3-7.6)	3%	6.76E-02
PCe C40:0	7.5 (3.1-15.7)	7.4 (2.9-16.9)	1%	4.58E-01
PCe C40:1	1.19 (0.37-3.75)	1.12 (0.35-4.34)	6%	6.91E-01
PCe C40:3	1.08 (0.21-5.08)	1.17 (0.27-4.90)	-8%	3.54E-01
PCe C40:4	2.2 (1.0-5.9)	2.16 (0.76-5.00)	2%	4.09E-01
PCe C40:5	2.53 (0.90-9.83)	2.45 (0.65-6.61)	3%	6.35E-02
PCe C40:6	2.8 (1.1-7.3)	2.7 (1.2-7.2)	4%	4.03E-01
PCe C42:1	0.59 (0.18-2.66)	0.60 (0.14-2.05)	-2%	8.00E-01
PCe C42:2	0.401 (0.087-1.372)	0.361 (0.084-1.701)	10%	1.40E-01
PCe C42:3	0.64 (0.14-2.92)	0.59 (0.14-1.65)	8%	7.00E-03
PCe C42:4	0.67 (0.17-1.60)	0.59 (0.19-1.55)	12%	2.04E-05
PCe C42:5	1.34 (0.48-3.80)	1.21 (0.35-3.19)	10%	3.57E-04
PCe C42:6	0.97 (0.30-2.90)	0.90 (0.25-2.72)	7%	2.75E-03
Phe	113 (70-204)	117 (48-210)	-4%	9.46E-03
Pro	216 (121-379)	220 (95-414)	-2%	1.35E-01
Ser	242 (131-526)	247 (114-593)	-2%	2.53E-01

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SM C21:2	0.035 (0.005-0.108)	0.032 (0.003-0.121)	9%	5.26E-02
SM C30:1	0.134 (0.028-0.514)	0.126 (0.025-0.501)	6%	2.44E-01
SM C31:1	0.079 (0.010-0.230)	0.082 (0.015-0.286)	-4%	6.27E-01
SM C32:1	3.3 (1.2-6.2)	3.1 (1.2-6.0)	6%	1.81E-02
SM C32:2	0.42 (0.11-1.04)	0.41 (0.16-1.16)	2%	1.35E-02
SM C33:1	2.27 (0.89-5.39)	2.2 (1.0-5.1)	3%	8.26E-02
SM C34:0	3.1 (1.2-7.4)	2.9 (1.3-5.5)	6%	3.45E-03
SM C34:1	59 (26-137)	57 (31-103)	3%	4.89E-02
SM C34:2	10.2 (4.4-23.0)	9.9 (4.3-27.4)	3%	1.64E-02
SM C35:1	1.79 (0.77-3.70)	1.75 (0.55-3.61)	2%	3.64E-01
SM C35:2	0.282 (0.067-0.628)	0.27 (0.10-0.87)	4%	2.99E-01
SM C36:0	5.3 (2.8-9.7)	5.0 (2.2-12.6)	6%	1.89E-03
SM C36:1	18.5 (7.8-41.1)	17.7 (7.4-39.0)	4%	5.00E-03
SM C36:2	13.8 (5.1-27.4)	12.6 (4.2-26.1)	9%	7.95E-05
SM C36:3	0.39 (0.10-1.01)	0.40 (0.12-1.16)	-3%	8.43E-01
SM C37:2	0.209 (0.068-0.497)	0.204 (0.069-0.517)	2%	2.27E-01
SM C37:3	0.073 (0.016-0.246)	0.073 (0.015-0.207)	0%	7.23E-01
SM C38:1	17.8 (7.0-38.4)	17.0 (8.3-32.9)	4%	8.78E-03
SM C38:2	9.4 (4.0-20.5)	8.7 (3.9-16.4)	7%	3.73E-04
SM C38:3	0.190 (0.070-0.448)	0.188 (0.044-0.415)	1%	2.84E-01
SM C39:1	1.68 (0.61-3.61)	1.63 (0.54-3.80)	3%	1.82E-01

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SM C39:4	0.72 (0.22-1.67)	0.66 (0.21-1.80)	8%	6.31E-02
SM C39:5	0.261 (0.084-0.620)	0.251 (0.074-0.600)	4%	3.10E-02
SM C40:1	9.6 (4.0-22.5)	9.1 (4.0-16.6)	5%	1.20E-02
SM C40:2	15.9 (6.6-35.9)	14.8 (4.9-28.2)	7%	1.97E-03
SM C40:3	5.2 (1.7-12.1)	5.1 (1.7-11.0)	2%	1.03E-01
SM C40:4	2.10 (0.86-4.22)	1.98 (0.87-3.94)	6%	1.84E-03
SM C40:5	0.45 (0.11-1.19)	0.43 (0.15-1.16)	4%	1.76E-02
SM C41:1	3.4 (1.4-7.4)	3.3 (1.3-7.3)	3%	3.20E-02
SM C41:2	3.0 (1.1-6.8)	2.8 (1.4-6.2)	7%	1.28E-02
SM C41:5	0.114 (0.036-0.332)	0.115 (0.034-0.393)	-1%	3.42E-01
SM C42:1	19.3 (9.4-39.8)	18.9 (9.2-36.6)	2%	3.00E-02
SM C42:2	29 (15-65)	28 (12-56)	3%	9.11E-02
SM C42:3	20.6 (8.4-47.4)	20.0 (6.8-49.0)	3%	3.19E-01
SM C42:4	7.9 (3.5-14.9)	7.1 (3.4-14.5)	10%	1.25E-03
SM C42:5	2.01 (0.43-5.34)	2.03 (0.55-4.97)	-1%	9.14E-01
SM C42:6	3.4 (1.4-7.0)	3.2 (1.3-7.5)	6%	3.16E-02
SM C43:0	0.67 (0.20-1.37)	0.63 (0.24-1.52)	6%	3.88E-02
SM C43:2	1.62 (0.65-4.15)	1.57 (0.56-3.84)	3%	4.84E-01
SM C44:6	1.71 (0.60-5.35)	1.65 (0.47-3.90)	4%	2.84E-02
Thr	256 (140-556)	269 (131-526)	-5%	3.78E-02
Trp	78 (44-136)	79 (42-139)	-1%	9.44E-02

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Tyr	77 (41-133)	80 (47-132)	-4%	2.08E-02
Val	275 (170-438)	284 (165-407)	-3%	9.96E-03

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**Supplemental table 2** The associations between metabolite concentrations in cord blood and birth weight were determined using linear regression models adjusted for study center, sex, gestational age, maternal smoking during the third trimester, maternal pre pregnancy BMI, maternal weight gain during pregnancy and maternal education (defined as low: less than 10 years, medium=10 years and high: more than 10 years of education). Linear regression models for **weight gain** z-scores included study center, sex, gestational age, and birth weight as adjustment variables, whereas the models for **zBMI (2 and 15 years)** were adjusted for study center, sex, and birth weight.

	Birth weight					Weight gain					BMI 2 years					BMI 15 years				
	N	$\beta$	p	p bonf	p fdr	N	$\beta$	p	p bonf	p fdr	N	$\beta$	p	p bonf	p fdr	N	$\beta$	p	p bonf	p fdr
AC C10:0	608	-22.611	0.126	1.000	0.317	615	-0.093	0.130	1.000	0.745	585	0.024	0.575	1.000	0.999	425	0.003	0.959	1.000	0.982
AC C10:1	590	-24.687	0.103	1.000	0.272	596	-0.049	0.439	1.000	0.901	567	-0.019	0.676	1.000	0.999	410	-0.006	0.909	1.000	0.963
AC C12:0	620	-34.219	0.022	1.000	0.090	629	-0.064	0.305	1.000	0.848	601	0.031	0.448	1.000	0.999	422	0.042	0.391	1.000	0.907
AC C14:1	661	-27.762	0.050	1.000	0.165	673	0.005	0.926	1.000	0.974	638	0.051	0.185	1.000	0.999	457	0.067	0.137	1.000	0.666
AC C16:0	663	-3.620	0.804	1.000	0.879	675	0.034	0.567	1.000	0.911	643	-0.017	0.671	1.000	0.999	460	0.071	0.146	1.000	0.666
AC C18:1	629	-16.656	0.277	1.000	0.540	639	0.073	0.239	1.000	0.770	611	0.047	0.240	1.000	0.999	432	0.090	0.072	1.000	0.666
AC C2:0	660	-43.974	0.002	0.508	0.018	672	0.042	0.476	1.000	0.901	640	0.026	0.526	1.000	0.999	459	0.017	0.732	1.000	0.963
AC C3:0	662	-12.276	0.401	1.000	0.632	674	-0.005	0.928	1.000	0.974	642	0.036	0.373	1.000	0.999	459	0.017	0.723	1.000	0.963
AC C8:1	662	-35.467	0.012	1.000	0.055	673	-0.013	0.820	1.000	0.942	642	-0.028	0.483	1.000	0.999	459	-0.007	0.889	1.000	0.963
Ala	661	-39.573	0.006	1.000	0.036	674	0.095	0.108	1.000	0.745	643	0.047	0.242	1.000	0.999	460	0.057	0.236	1.000	0.807
Arg	662	22.758	0.128	1.000	0.318	675	-0.057	0.352	1.000	0.901	643	0.026	0.534	1.000	0.999	461	0.014	0.788	1.000	0.963
Asn	662	-10.385	0.462	1.000	0.663	675	0.079	0.166	1.000	0.745	643	0.063	0.107	1.000	0.999	461	0.062	0.194	1.000	0.738
Asp	659	-15.897	0.255	1.000	0.523	672	0.078	0.185	1.000	0.745	640	0.019	0.633	1.000	0.999	458	-0.005	0.911	1.000	0.963
C14:0	652	-35.066	0.015	1.000	0.067	665	0.048	0.415	1.000	0.901	634	0.040	0.307	1.000	0.999	452	-0.028	0.540	1.000	0.963
C15:1	654	-14.245	0.340	1.000	0.583	668	-0.034	0.579	1.000	0.911	636	0.040	0.304	1.000	0.999	453	-0.065	0.160	1.000	0.666
C16:0	662	1.254	0.933	1.000	0.951	675	0.049	0.411	1.000	0.901	643	0.022	0.592	1.000	0.999	459	-0.006	0.912	1.000	0.963

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C16:1 n7	663	-5.302	0.712	1.000	0.839	675	-0.040	0.499	1.000	0.901	643	0.025	0.534	1.000	0.999	460	-0.010	0.840	1.000	0.963
C17:0	651	-52.655	0.000	0.056	0.004	665	0.080	0.180	1.000	0.745	633	0.025	0.526	1.000	0.999	451	-0.016	0.747	1.000	0.963
C18:0	662	-4.181	0.776	1.000	0.865	675	0.065	0.279	1.000	0.797	643	0.000	0.996	1.000	0.999	459	0.005	0.927	1.000	0.964
C18:1 n7	663	19.909	0.183	1.000	0.415	676	0.020	0.740	1.000	0.936	644	0.018	0.663	1.000	0.999	460	0.049	0.332	1.000	0.907
C18:1 n9	661	5.833	0.688	1.000	0.822	674	0.062	0.308	1.000	0.848	642	0.056	0.169	1.000	0.999	459	-0.018	0.715	1.000	0.963
C18:2 n6	662	-39.715	0.005	1.000	0.035	675	0.040	0.509	1.000	0.901	643	0.034	0.410	1.000	0.999	459	-0.010	0.839	1.000	0.963
C18:3 n3	647	-57.413	0.000	0.012	0.001	660	0.095	0.109	1.000	0.745	628	-0.004	0.924	1.000	0.999	448	0.032	0.496	1.000	0.963
C18:3 n6	651	-12.009	0.401	1.000	0.632	665	0.046	0.429	1.000	0.901	633	0.024	0.538	1.000	0.999	451	-0.012	0.793	1.000	0.963
C20:1 n9	625	-13.776	0.323	1.000	0.583	639	0.093	0.115	1.000	0.745	606	0.023	0.577	1.000	0.999	433	0.002	0.974	1.000	0.988
C20:2 n6	649	10.665	0.447	1.000	0.659	663	0.129	0.025	1.000	0.745	632	0.029	0.460	1.000	0.999	449	-0.024	0.615	1.000	0.963
C20:3 n3	643	-8.568	0.547	1.000	0.742	658	0.085	0.141	1.000	0.745	626	-0.004	0.910	1.000	0.999	444	0.078	0.114	1.000	0.666
C20:3 n6	661	46.004	0.001	0.304	0.013	674	0.024	0.690	1.000	0.930	642	0.004	0.923	1.000	0.999	458	-0.011	0.821	1.000	0.963
C20:3 n9	663	108.707	0.000	0.000	0.000	676	-0.006	0.928	1.000	0.974	644	0.042	0.308	1.000	0.999	460	-0.062	0.200	1.000	0.747
C20:4 n6	662	-9.250	0.534	1.000	0.729	674	0.022	0.718	1.000	0.932	642	0.009	0.834	1.000	0.999	459	0.045	0.384	1.000	0.907
C20:5 n3	658	-45.305	0.002	0.327	0.013	671	0.135	0.025	1.000	0.745	639	0.018	0.655	1.000	0.999	456	-0.028	0.563	1.000	0.963
C22:4 n6	645	1.305	0.930	1.000	0.951	660	0.098	0.110	1.000	0.745	628	-0.025	0.546	1.000	0.999	446	-0.017	0.738	1.000	0.963
C22:5 n3	660	-39.817	0.009	1.000	0.043	672	0.072	0.255	1.000	0.790	640	-0.025	0.541	1.000	0.999	456	-0.029	0.565	1.000	0.963
C22:5 n6	663	76.289	0.000	0.000	0.000	676	-0.017	0.777	1.000	0.936	644	0.016	0.692	1.000	0.999	460	-0.044	0.364	1.000	0.907
C22:6 n3	663	-37.048	0.015	1.000	0.067	676	-0.020	0.746	1.000	0.936	644	0.002	0.962	1.000	0.999	460	-0.039	0.434	1.000	0.955
Cit	655	7.409	0.595	1.000	0.774	667	-0.011	0.849	1.000	0.950	636	-0.004	0.913	1.000	0.999	456	0.009	0.849	1.000	0.963
Gln	644	-4.132	0.770	1.000	0.865	657	-0.040	0.492	1.000	0.901	628	-0.017	0.664	1.000	0.999	450	-0.046	0.329	1.000	0.907
Glu	601	-2.781	0.853	1.000	0.914	612	0.078	0.212	1.000	0.760	583	0.045	0.283	1.000	0.999	418	0.056	0.290	1.000	0.907
Gly	663	0.494	0.972	1.000	0.977	676	0.036	0.535	1.000	0.911	644	0.001	0.980	1.000	0.999	461	0.009	0.851	1.000	0.963
H1	644	15.693	0.291	1.000	0.562	658	-0.090	0.131	1.000	0.745	627	-0.060	0.148	1.000	0.999	449	-0.011	0.822	1.000	0.963
His	662	43.757	0.001	0.311	0.013	675	0.067	0.234	1.000	0.768	643	0.009	0.817	1.000	0.999	460	-0.005	0.911	1.000	0.963
Ile	660	14.209	0.318	1.000	0.583	673	-0.023	0.694	1.000	0.930	642	0.010	0.807	1.000	0.999	459	0.087	0.067	1.000	0.666

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Leu	661	-7.401	0.601	1.000	0.774	674	-0.027	0.640	1.000	0.918	642	0.035	0.364	1.000	0.999	460	0.094	0.047	1.000	0.666
LPCa C14:0	662	75.566	0.000	0.000	0.000	673	-0.071	0.234	1.000	0.768	641	-0.007	0.860	1.000	0.999	458	-0.010	0.842	1.000	0.963
LPCa C16:0	662	61.943	0.000	0.001	0.000	674	-0.081	0.159	1.000	0.745	642	-0.031	0.426	1.000	0.999	459	-0.020	0.668	1.000	0.963
LPCa C16:1	662	130.448	0.000	0.000	0.000	674	-0.113	0.072	1.000	0.745	642	-0.007	0.873	1.000	0.999	460	-0.032	0.502	1.000	0.963
LPCa C18:0	663	26.755	0.054	1.000	0.168	675	-0.042	0.464	1.000	0.901	643	-0.021	0.582	1.000	0.999	460	-0.048	0.308	1.000	0.907
LPCa C18:1	664	125.436	0.000	0.000	0.000	676	-0.102	0.108	1.000	0.745	644	-0.017	0.685	1.000	0.999	461	-0.020	0.672	1.000	0.963
LPCa C18:2	661	86.490	0.000	0.000	0.000	673	-0.127	0.043	1.000	0.745	642	-0.007	0.874	1.000	0.999	459	-0.035	0.480	1.000	0.963
LPCa C18:3	555	66.597	0.000	0.003	0.000	559	0.065	0.323	1.000	0.865	535	0.032	0.456	1.000	0.999	381	-0.022	0.652	1.000	0.963
LPCa C20:3	661	110.129	0.000	0.000	0.000	673	-0.090	0.153	1.000	0.745	642	-0.037	0.369	1.000	0.999	459	0.008	0.863	1.000	0.963
LPCa C20:4	660	81.912	0.000	0.000	0.000	672	-0.055	0.373	1.000	0.901	641	-0.021	0.607	1.000	0.999	458	0.040	0.418	1.000	0.940
LPCa C22:6	601	50.504	0.001	0.142	0.008	611	-0.031	0.616	1.000	0.916	581	-0.039	0.350	1.000	0.999	409	-0.027	0.579	1.000	0.963
LPCe C16:0	628	42.761	0.003	0.669	0.022	640	-0.109	0.074	1.000	0.745	612	0.072	0.070	1.000	0.999	434	-0.028	0.569	1.000	0.963
LPCe C18:0	658	-4.128	0.778	1.000	0.865	670	-0.120	0.045	1.000	0.745	638	-0.007	0.864	1.000	0.999	457	-0.128	0.007	1.000	0.588
LPCe C18:1	373	47.998	0.012	1.000	0.058	383	0.046	0.533	1.000	0.911	362	0.082	0.121	1.000	0.999	251	-0.021	0.738	1.000	0.963
Lys	551	-7.098	0.652	1.000	0.811	556	0.069	0.276	1.000	0.797	534	0.030	0.463	1.000	0.999	381	0.047	0.339	1.000	0.907
Met	661	-13.783	0.332	1.000	0.583	674	-0.013	0.817	1.000	0.942	644	0.028	0.463	1.000	0.999	460	0.042	0.380	1.000	0.907
NEFA C12:0	661	-10.617	0.453	1.000	0.662	674	0.038	0.509	1.000	0.901	642	0.020	0.615	1.000	0.999	460	0.027	0.554	1.000	0.963
NEFA C14:0	661	-6.528	0.639	1.000	0.800	674	0.024	0.680	1.000	0.929	642	0.012	0.760	1.000	0.999	459	0.067	0.148	1.000	0.666
NEFA C14:1	663	-11.810	0.405	1.000	0.632	675	0.011	0.846	1.000	0.950	644	0.038	0.352	1.000	0.999	460	0.079	0.094	1.000	0.666
NEFA C15:0	660	-9.998	0.484	1.000	0.684	672	0.028	0.627	1.000	0.916	640	0.009	0.832	1.000	0.999	458	0.046	0.332	1.000	0.907
NEFA C15:1	575	-16.121	0.318	1.000	0.583	589	-0.005	0.935	1.000	0.974	563	0.004	0.927	1.000	0.999	400	0.072	0.172	1.000	0.677
NEFA C16:0	661	-31.521	0.026	1.000	0.101	674	0.094	0.106	1.000	0.745	642	-0.005	0.897	1.000	0.999	459	0.075	0.111	1.000	0.666
NEFA C16:1	664	-17.172	0.223	1.000	0.468	676	0.021	0.713	1.000	0.932	644	0.013	0.739	1.000	0.999	461	0.091	0.054	1.000	0.666
NEFA C16:2	601	-35.557	0.017	1.000	0.076	612	0.091	0.150	1.000	0.745	583	0.054	0.207	1.000	0.999	418	0.079	0.114	1.000	0.666
NEFA C16:3	529	-45.929	0.004	0.774	0.025	542	0.210	0.001	0.292	0.201	515	0.037	0.419	1.000	0.999	367	0.042	0.449	1.000	0.963
NEFA C17:0	661	-33.188	0.024	1.000	0.096	672	0.085	0.164	1.000	0.745	640	0.042	0.311	1.000	0.999	458	0.072	0.132	1.000	0.666



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NEFA C17:1	661	-10.562	0.462	1.000	0.663	673	0.056	0.348	1.000	0.901	641	0.030	0.470	1.000	0.999	458	0.108	0.023	1.000	0.588
NEFA C18:0	659	-38.428	0.006	1.000	0.036	671	0.110	0.057	1.000	0.745	639	0.017	0.663	1.000	0.999	458	0.026	0.580	1.000	0.963
NEFA C18:1	661	-11.496	0.419	1.000	0.645	674	0.074	0.210	1.000	0.760	642	0.023	0.569	1.000	0.999	459	0.107	0.025	1.000	0.588
NEFA C18:2	661	-24.593	0.080	1.000	0.230	674	0.077	0.184	1.000	0.745	642	0.019	0.629	1.000	0.999	459	0.072	0.127	1.000	0.666
NEFA C18:3	661	-16.959	0.224	1.000	0.468	673	0.093	0.110	1.000	0.745	641	0.034	0.400	1.000	0.999	458	0.062	0.191	1.000	0.738
NEFA C18:4	591	-40.638	0.006	1.000	0.036	603	0.077	0.235	1.000	0.768	574	0.036	0.399	1.000	0.999	413	0.035	0.480	1.000	0.963
NEFA C19:1	661	-19.921	0.170	1.000	0.394	674	0.056	0.346	1.000	0.901	642	0.046	0.258	1.000	0.999	459	0.096	0.041	1.000	0.661
NEFA C20:0	530	-12.618	0.440	1.000	0.656	537	0.091	0.182	1.000	0.745	511	0.021	0.647	1.000	0.999	364	-0.005	0.924	1.000	0.964
NEFA C20:1	661	-1.471	0.917	1.000	0.948	674	0.097	0.099	1.000	0.745	642	0.002	0.952	1.000	0.999	459	0.102	0.032	1.000	0.650
NEFA C20:2	583	-42.052	0.006	1.000	0.036	598	0.077	0.219	1.000	0.764	567	0.023	0.590	1.000	0.999	399	0.122	0.022	1.000	0.588
NEFA C20:3	630	-17.823	0.208	1.000	0.458	641	0.069	0.257	1.000	0.790	613	-0.024	0.544	1.000	0.999	435	0.092	0.066	1.000	0.666
NEFA C20:4	661	-25.671	0.067	1.000	0.203	674	0.079	0.176	1.000	0.745	642	-0.059	0.137	1.000	0.999	460	0.090	0.075	1.000	0.666
NEFA C20:5	600	-73.087	0.000	0.000	0.000	616	0.100	0.110	1.000	0.745	585	0.013	0.751	1.000	0.999	418	0.071	0.166	1.000	0.666
NEFA C22:0	551	-7.834	0.637	1.000	0.800	558	0.042	0.542	1.000	0.911	534	0.009	0.836	1.000	0.999	375	-0.029	0.590	1.000	0.963
NEFA C22:1	584	11.769	0.443	1.000	0.657	595	0.121	0.053	1.000	0.745	571	0.084	0.043	1.000	0.999	402	0.096	0.056	1.000	0.666
NEFA C22:2	574	-3.956	0.802	1.000	0.879	585	0.087	0.177	1.000	0.745	561	0.078	0.071	1.000	0.999	395	0.087	0.094	1.000	0.666
NEFA C22:3	511	-2.486	0.878	1.000	0.922	519	0.130	0.066	1.000	0.745	499	0.019	0.690	1.000	0.999	355	0.093	0.103	1.000	0.666
NEFA C22:4	661	-47.095	0.001	0.265	0.013	674	0.083	0.174	1.000	0.745	643	-0.059	0.150	1.000	0.999	460	0.109	0.034	1.000	0.650
NEFA C22:5	662	-43.329	0.003	0.569	0.020	675	0.082	0.174	1.000	0.745	643	-0.003	0.949	1.000	0.999	460	0.100	0.048	1.000	0.666
NEFA C22:6	661	-71.588	0.000	0.000	0.000	674	0.077	0.196	1.000	0.754	642	-0.018	0.648	1.000	0.999	460	0.088	0.081	1.000	0.666
NEFA C24:1	631	3.196	0.829	1.000	0.897	642	0.062	0.319	1.000	0.865	614	0.056	0.163	1.000	0.999	435	0.130	0.007	1.000	0.588
NEFA C24:2	482	-44.641	0.010	1.000	0.048	489	0.097	0.175	1.000	0.745	469	0.076	0.123	1.000	0.999	335	0.063	0.283	1.000	0.907
NEFA C24:3	507	-5.199	0.750	1.000	0.861	511	0.214	0.002	0.402	0.201	484	0.053	0.267	1.000	0.999	355	0.095	0.079	1.000	0.666
NEFA C24:4	662	-48.046	0.001	0.213	0.011	675	0.161	0.008	1.000	0.408	643	0.043	0.295	1.000	0.999	460	0.126	0.012	1.000	0.588
NEFA C26:0	556	-24.808	0.103	1.000	0.272	559	0.165	0.010	1.000	0.408	532	0.098	0.020	1.000	0.999	379	-0.007	0.889	1.000	0.963
NEFA C26:3	568	4.898	0.756	1.000	0.864	585	0.186	0.004	0.792	0.264	557	0.014	0.749	1.000	0.999	394	0.047	0.361	1.000	0.907

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NEFA C26:4	470	-38.333	0.029	1.000	0.109	484	0.155	0.034	1.000	0.745	459	0.073	0.129	1.000	0.999	333	0.081	0.163	1.000	0.666
Orn	661	-6.269	0.657	1.000	0.812	674	0.050	0.378	1.000	0.901	643	0.049	0.199	1.000	0.999	459	0.030	0.532	1.000	0.963
PCa C28:2	518	-9.446	0.533	1.000	0.729	516	0.017	0.790	1.000	0.936	496	0.024	0.564	1.000	0.999	347	0.031	0.552	1.000	0.963
PCa C30:0	662	-1.754	0.903	1.000	0.939	674	-0.032	0.597	1.000	0.911	642	0.039	0.336	1.000	0.999	459	0.030	0.553	1.000	0.963
PCa C30:2	633	-13.090	0.365	1.000	0.598	641	0.012	0.846	1.000	0.950	609	0.030	0.464	1.000	0.999	433	0.066	0.164	1.000	0.666
PCa C32:0	664	-26.425	0.070	1.000	0.206	676	0.016	0.792	1.000	0.936	644	0.007	0.866	1.000	0.999	461	0.049	0.319	1.000	0.907
PCa C32:1	662	44.354	0.002	0.452	0.017	674	-0.078	0.187	1.000	0.745	642	-0.030	0.449	1.000	0.999	460	-0.005	0.921	1.000	0.964
PCa C32:2	658	9.180	0.533	1.000	0.729	671	-0.044	0.475	1.000	0.901	638	0.036	0.391	1.000	0.999	457	0.027	0.604	1.000	0.963
PCa C32:3	655	28.481	0.047	1.000	0.158	665	-0.015	0.802	1.000	0.936	632	-0.017	0.675	1.000	0.999	449	0.010	0.824	1.000	0.963
PCa C34:1	663	20.453	0.157	1.000	0.376	675	-0.017	0.769	1.000	0.936	643	0.005	0.901	1.000	0.999	460	0.011	0.809	1.000	0.963
PCa C34:2	661	-18.039	0.203	1.000	0.451	673	-0.021	0.729	1.000	0.935	641	0.006	0.878	1.000	0.999	458	-0.008	0.864	1.000	0.963
PCa C34:3	663	11.397	0.425	1.000	0.645	675	-0.078	0.189	1.000	0.745	643	-0.039	0.341	1.000	0.999	460	-0.034	0.487	1.000	0.963
PCa C34:4	662	11.976	0.390	1.000	0.627	673	-0.096	0.095	1.000	0.745	642	-0.031	0.418	1.000	0.999	459	-0.041	0.374	1.000	0.907
PCa C34:5	447	9.183	0.581	1.000	0.766	455	-0.047	0.488	1.000	0.901	437	-0.044	0.344	1.000	0.999	303	0.013	0.823	1.000	0.963
PCa C36:1	661	21.509	0.132	1.000	0.325	673	-0.032	0.586	1.000	0.911	641	0.012	0.756	1.000	0.999	458	-0.011	0.821	1.000	0.963
PCa C36:2	660	-7.236	0.603	1.000	0.774	672	-0.035	0.548	1.000	0.911	640	0.022	0.586	1.000	0.999	457	-0.009	0.856	1.000	0.963
PCa C36:3	661	47.385	0.001	0.195	0.010	673	-0.051	0.392	1.000	0.901	641	-0.006	0.885	1.000	0.999	458	0.011	0.820	1.000	0.963
PCa C36:4	662	-14.383	0.317	1.000	0.583	674	-0.031	0.592	1.000	0.911	642	-0.011	0.782	1.000	0.999	459	0.015	0.763	1.000	0.963
PCa C36:5	663	-47.541	0.001	0.179	0.010	675	-0.030	0.622	1.000	0.916	643	0.005	0.901	1.000	0.999	460	-0.021	0.678	1.000	0.963
PCa C36:6	609	-13.877	0.332	1.000	0.583	615	-0.077	0.183	1.000	0.745	589	0.063	0.108	1.000	0.999	419	-0.058	0.228	1.000	0.792
PCa C38:0	659	-22.016	0.119	1.000	0.307	670	-0.094	0.110	1.000	0.745	638	-0.006	0.883	1.000	0.999	456	-0.075	0.115	1.000	0.666
PCa C38:2	555	-6.099	0.682	1.000	0.822	565	0.078	0.214	1.000	0.760	540	0.015	0.709	1.000	0.999	376	0.027	0.588	1.000	0.963
PCa C38:3	661	28.131	0.046	1.000	0.156	673	-0.043	0.463	1.000	0.901	641	-0.012	0.770	1.000	0.999	458	0.007	0.893	1.000	0.963
PCa C38:4	662	-28.640	0.044	1.000	0.153	674	-0.034	0.559	1.000	0.911	642	-0.004	0.923	1.000	0.999	460	0.036	0.457	1.000	0.963
PCa C38:5	659	4.961	0.733	1.000	0.854	671	-0.035	0.553	1.000	0.911	639	0.010	0.802	1.000	0.999	458	-0.015	0.767	1.000	0.963
PCa C38:6	661	-32.993	0.026	1.000	0.101	672	-0.067	0.264	1.000	0.790	640	0.006	0.893	1.000	0.999	458	-0.011	0.825	1.000	0.963

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PCa C40:0	522	-14.856	0.352	1.000	0.589	525	-0.044	0.513	1.000	0.901	506	-0.039	0.369	1.000	0.999	351	-0.080	0.128	1.000	0.666
PCa C40:4	633	5.877	0.684	1.000	0.822	644	0.037	0.544	1.000	0.911	616	-0.019	0.640	1.000	0.999	437	0.000	0.992	1.000	0.993
PCa C40:5	663	33.473	0.018	1.000	0.076	675	-0.054	0.358	1.000	0.901	643	0.001	0.980	1.000	0.999	460	-0.019	0.694	1.000	0.963
PCa C40:6	663	-29.050	0.052	1.000	0.168	674	-0.043	0.479	1.000	0.901	642	-0.003	0.945	1.000	0.999	460	-0.018	0.723	1.000	0.963
PCa C42:0	452	-29.509	0.087	1.000	0.238	452	0.005	0.945	1.000	0.974	440	-0.057	0.231	1.000	0.999	308	-0.022	0.697	1.000	0.963
PCa C42:1	345	-55.379	0.006	1.000	0.036	354	-0.006	0.942	1.000	0.974	343	-0.017	0.762	1.000	0.999	237	-0.098	0.155	1.000	0.666
PCa C42:5	356	-33.186	0.069	1.000	0.206	351	0.028	0.724	1.000	0.934	342	-0.032	0.542	1.000	0.999	239	-0.157	0.012	1.000	0.588
PCa C43:6	627	-13.173	0.366	1.000	0.598	636	0.027	0.662	1.000	0.918	607	-0.031	0.449	1.000	0.999	430	-0.013	0.786	1.000	0.963
PCa C44:12	625	4.658	0.742	1.000	0.857	636	-0.044	0.462	1.000	0.901	608	-0.077	0.050	1.000	0.999	432	-0.032	0.493	1.000	0.963
PCe C32:0	664	17.392	0.213	1.000	0.464	676	-0.002	0.974	1.000	0.983	644	0.029	0.456	1.000	0.999	461	-0.013	0.785	1.000	0.963
PCe C32:1	664	-0.778	0.957	1.000	0.971	676	-0.016	0.789	1.000	0.936	644	0.001	0.981	1.000	0.999	461	-0.014	0.779	1.000	0.963
PCe C32:2	633	-9.194	0.521	1.000	0.726	642	-0.084	0.157	1.000	0.745	609	0.014	0.733	1.000	0.999	434	-0.006	0.902	1.000	0.963
PCe C34:0	664	-14.632	0.304	1.000	0.581	676	-0.087	0.140	1.000	0.745	644	0.002	0.958	1.000	0.999	461	-0.010	0.831	1.000	0.963
PCe C34:1	663	17.413	0.224	1.000	0.468	674	-0.018	0.761	1.000	0.936	642	-0.006	0.882	1.000	0.999	459	-0.007	0.893	1.000	0.963
PCe C34:2	662	-5.913	0.680	1.000	0.822	674	-0.019	0.755	1.000	0.936	642	0.007	0.856	1.000	0.999	459	-0.017	0.738	1.000	0.963
PCe C34:3	662	-44.863	0.002	0.319	0.013	674	0.011	0.852	1.000	0.950	642	-0.043	0.291	1.000	0.999	459	-0.045	0.363	1.000	0.907
PCe C34:4	559	-6.042	0.698	1.000	0.829	567	-0.029	0.659	1.000	0.918	541	0.065	0.148	1.000	0.999	387	-0.115	0.025	1.000	0.588
PCe C36:0	537	0.693	0.964	1.000	0.973	545	-0.141	0.031	1.000	0.745	522	0.009	0.826	1.000	0.999	363	-0.013	0.811	1.000	0.963
PCe C36:1	662	-14.534	0.306	1.000	0.581	674	-0.015	0.800	1.000	0.936	642	0.019	0.633	1.000	0.999	459	-0.029	0.542	1.000	0.963
PCe C36:2	661	-21.922	0.125	1.000	0.317	673	-0.032	0.593	1.000	0.911	641	0.030	0.452	1.000	0.999	458	-0.044	0.384	1.000	0.907
PCe C36:3	660	28.623	0.043	1.000	0.151	672	-0.011	0.852	1.000	0.950	640	0.002	0.966	1.000	0.999	458	-0.061	0.204	1.000	0.747
PCe C36:4	662	13.484	0.343	1.000	0.583	674	0.000	1.000	1.000	1.000	642	-0.028	0.483	1.000	0.999	459	-0.014	0.771	1.000	0.963
PCe C36:5	662	-25.435	0.074	1.000	0.214	674	-0.006	0.922	1.000	0.974	642	-0.017	0.670	1.000	0.999	459	-0.016	0.741	1.000	0.963
PCe C36:6	378	-4.469	0.801	1.000	0.879	379	-0.053	0.501	1.000	0.901	366	-0.017	0.719	1.000	0.999	255	-0.022	0.733	1.000	0.963
PCe C38:0	660	-59.374	0.000	0.004	0.000	671	-0.090	0.123	1.000	0.745	639	-0.013	0.746	1.000	0.999	458	-0.004	0.940	1.000	0.968
PCe C38:2	652	-7.242	0.608	1.000	0.775	663	-0.053	0.365	1.000	0.901	632	0.013	0.731	1.000	0.999	452	-0.050	0.287	1.000	0.907

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PCe C38:3	654	-29.921	0.031	1.000	0.115	666	-0.025	0.668	1.000	0.918	634	0.020	0.599	1.000	0.999	453	-0.031	0.522	1.000	0.963
PCe C38:4	661	-13.898	0.329	1.000	0.583	673	0.004	0.948	1.000	0.974	641	-0.018	0.652	1.000	0.999	459	-0.044	0.360	1.000	0.907
PCe C38:5	661	4.123	0.770	1.000	0.865	673	-0.002	0.978	1.000	0.983	641	-0.014	0.721	1.000	0.999	458	-0.035	0.465	1.000	0.963
PCe C38:6	662	-24.655	0.084	1.000	0.235	674	-0.030	0.606	1.000	0.916	642	-0.002	0.954	1.000	0.999	460	-0.049	0.300	1.000	0.907
PCe C40:0	661	-30.788	0.035	1.000	0.126	671	-0.015	0.803	1.000	0.936	640	0.009	0.822	1.000	0.999	459	0.033	0.506	1.000	0.963
PCe C40:1	577	1.473	0.920	1.000	0.948	583	-0.016	0.793	1.000	0.936	562	0.016	0.688	1.000	0.999	394	0.080	0.106	1.000	0.666
PCe C40:3	517	-22.241	0.159	1.000	0.376	526	-0.076	0.245	1.000	0.775	509	0.000	0.999	1.000	0.999	355	-0.083	0.117	1.000	0.666
PCe C40:4	658	-36.661	0.011	1.000	0.051	668	-0.028	0.631	1.000	0.916	636	-0.015	0.704	1.000	0.999	454	-0.038	0.424	1.000	0.943
PCe C40:5	656	-30.143	0.030	1.000	0.112	669	-0.021	0.714	1.000	0.932	637	-0.055	0.153	1.000	0.999	456	-0.038	0.406	1.000	0.923
PCe C40:6	660	-52.871	0.000	0.071	0.004	672	-0.032	0.593	1.000	0.911	640	0.002	0.953	1.000	0.999	459	-0.073	0.132	1.000	0.666
PCe C42:1	370	-26.645	0.160	1.000	0.376	376	0.008	0.920	1.000	0.974	364	-0.018	0.724	1.000	0.999	255	-0.134	0.041	1.000	0.661
PCe C42:2	528	-16.855	0.265	1.000	0.536	536	-0.070	0.268	1.000	0.790	516	-0.025	0.527	1.000	0.999	363	-0.025	0.632	1.000	0.963
PCe C42:3	450	-18.168	0.269	1.000	0.536	450	0.004	0.951	1.000	0.974	438	-0.004	0.928	1.000	0.999	305	0.007	0.900	1.000	0.963
PCe C42:4	611	-28.067	0.061	1.000	0.188	620	0.048	0.457	1.000	0.901	593	-0.063	0.127	1.000	0.999	418	-0.080	0.131	1.000	0.666
PCe C42:5	583	-14.654	0.340	1.000	0.583	588	-0.026	0.700	1.000	0.932	566	-0.063	0.132	1.000	0.999	397	-0.045	0.396	1.000	0.908
PCe C42:6	598	-41.759	0.004	0.927	0.029	607	-0.021	0.739	1.000	0.936	581	-0.032	0.447	1.000	0.999	415	-0.008	0.870	1.000	0.963
Phe	663	-19.134	0.181	1.000	0.415	676	0.031	0.597	1.000	0.911	644	0.068	0.083	1.000	0.999	461	0.052	0.304	1.000	0.907
Pro	662	-10.708	0.463	1.000	0.663	675	0.030	0.612	1.000	0.916	644	0.055	0.167	1.000	0.999	461	0.028	0.577	1.000	0.963
Ser	661	-6.123	0.663	1.000	0.815	674	0.029	0.625	1.000	0.916	642	0.026	0.507	1.000	0.999	460	0.042	0.381	1.000	0.907
SM C21:2	433	15.939	0.362	1.000	0.598	433	-0.120	0.105	1.000	0.745	418	-0.028	0.574	1.000	0.999	287	0.053	0.391	1.000	0.907
SM C30:1	529	-12.681	0.425	1.000	0.645	541	0.030	0.649	1.000	0.918	517	0.044	0.304	1.000	0.999	359	-0.022	0.685	1.000	0.963
SM C31:1	363	-2.487	0.900	1.000	0.939	368	-0.014	0.864	1.000	0.951	357	0.006	0.914	1.000	0.999	249	0.005	0.938	1.000	0.968
SM C32:1	663	7.516	0.603	1.000	0.774	675	-0.011	0.854	1.000	0.950	643	0.018	0.659	1.000	0.999	460	0.017	0.727	1.000	0.963
SM C32:2	662	32.651	0.022	1.000	0.090	674	-0.104	0.079	1.000	0.745	642	0.045	0.270	1.000	0.999	460	0.071	0.143	1.000	0.666
SM C33:1	662	-0.003	1.000	1.000	1.000	674	-0.016	0.783	1.000	0.936	642	0.034	0.399	1.000	0.999	459	-0.032	0.525	1.000	0.963
SM C34:0	658	11.115	0.437	1.000	0.656	668	-0.005	0.936	1.000	0.974	635	0.028	0.482	1.000	0.999	452	0.044	0.351	1.000	0.907

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SM C34:1	662	-12.012	0.403	1.000	0.632	674	0.009	0.883	1.000	0.966	642	0.002	0.962	1.000	0.999	459	0.013	0.783	1.000	0.963
SM C34:2	664	17.751	0.216	1.000	0.465	676	-0.040	0.495	1.000	0.901	644	0.003	0.944	1.000	0.999	461	0.047	0.323	1.000	0.907
SM C35:1	662	-15.629	0.269	1.000	0.536	674	-0.046	0.431	1.000	0.901	642	0.035	0.374	1.000	0.999	459	-0.011	0.820	1.000	0.963
SM C35:2	579	3.675	0.808	1.000	0.879	589	-0.027	0.664	1.000	0.918	563	0.015	0.721	1.000	0.999	400	0.011	0.831	1.000	0.963
SM C36:0	460	24.275	0.157	1.000	0.376	464	0.021	0.765	1.000	0.936	443	0.066	0.158	1.000	0.999	315	0.080	0.143	1.000	0.666
SM C36:1	663	6.101	0.675	1.000	0.822	675	-0.004	0.945	1.000	0.974	643	-0.004	0.931	1.000	0.999	460	0.009	0.850	1.000	0.963
SM C36:2	664	15.862	0.276	1.000	0.540	676	-0.035	0.561	1.000	0.911	644	-0.011	0.785	1.000	0.999	461	0.033	0.492	1.000	0.963
SM C36:3	611	2.510	0.864	1.000	0.914	621	-0.095	0.128	1.000	0.745	594	0.014	0.726	1.000	0.999	421	-0.024	0.624	1.000	0.963
SM C37:2	401	9.586	0.583	1.000	0.766	405	0.039	0.580	1.000	0.911	387	-0.002	0.974	1.000	0.999	272	-0.124	0.025	1.000	0.588
SM C37:3	638	-5.025	0.714	1.000	0.839	647	-0.039	0.510	1.000	0.901	613	-0.010	0.801	1.000	0.999	439	0.033	0.487	1.000	0.963
SM C38:1	555	15.073	0.327	1.000	0.583	567	-0.029	0.647	1.000	0.918	538	0.021	0.617	1.000	0.999	381	0.015	0.770	1.000	0.963
SM C38:2	662	4.224	0.770	1.000	0.865	674	-0.032	0.595	1.000	0.911	642	-0.016	0.695	1.000	0.999	459	-0.019	0.691	1.000	0.963
SM C38:3	653	-7.828	0.579	1.000	0.766	663	-0.026	0.660	1.000	0.918	631	0.043	0.290	1.000	0.999	448	0.048	0.333	1.000	0.907
SM C39:1	659	-25.316	0.084	1.000	0.235	671	-0.050	0.401	1.000	0.901	639	0.005	0.901	1.000	0.999	458	-0.043	0.367	1.000	0.907
SM C39:4	466	-21.196	0.196	1.000	0.439	477	0.054	0.433	1.000	0.901	456	0.048	0.292	1.000	0.999	318	0.001	0.979	1.000	0.988
SM C39:5	622	-10.285	0.469	1.000	0.667	632	0.077	0.202	1.000	0.754	602	0.035	0.383	1.000	0.999	424	0.022	0.644	1.000	0.963
SM C40:1	609	13.600	0.351	1.000	0.589	621	0.003	0.960	1.000	0.979	589	0.000	0.993	1.000	0.999	421	0.006	0.909	1.000	0.963
SM C40:2	663	-2.418	0.866	1.000	0.914	675	0.015	0.807	1.000	0.936	643	-0.047	0.242	1.000	0.999	460	0.009	0.844	1.000	0.963
SM C40:3	403	6.399	0.735	1.000	0.854	414	0.060	0.397	1.000	0.901	389	0.031	0.564	1.000	0.999	276	-0.016	0.792	1.000	0.963
SM C40:4	656	-9.813	0.491	1.000	0.688	666	-0.045	0.440	1.000	0.901	633	-0.012	0.767	1.000	0.999	450	0.034	0.475	1.000	0.963
SM C40:5	597	-45.300	0.002	0.412	0.016	608	-0.042	0.487	1.000	0.901	579	0.001	0.971	1.000	0.999	407	0.060	0.220	1.000	0.780
SM C41:1	661	-27.542	0.053	1.000	0.168	673	-0.039	0.504	1.000	0.901	641	0.030	0.449	1.000	0.999	458	-0.033	0.506	1.000	0.963
SM C41:2	662	-22.663	0.111	1.000	0.290	674	-0.071	0.226	1.000	0.768	642	0.024	0.550	1.000	0.999	459	-0.047	0.333	1.000	0.907
SM C41:5	506	2.772	0.857	1.000	0.914	518	0.050	0.446	1.000	0.901	493	-0.026	0.550	1.000	0.999	345	0.077	0.156	1.000	0.666
SM C42:1	663	-13.435	0.343	1.000	0.583	675	0.040	0.500	1.000	0.901	643	0.032	0.423	1.000	0.999	460	0.021	0.659	1.000	0.963
SM C42:2	660	-8.395	0.556	1.000	0.750	672	-0.003	0.966	1.000	0.980	640	0.017	0.668	1.000	0.999	457	0.024	0.621	1.000	0.963

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SM C42:3	664	8.085	0.570	1.000	0.764	676	0.041	0.485	1.000	0.901	644	-0.001	0.988	1.000	0.999	461	0.066	0.152	1.000	0.666
SM C42:4	436	-46.759	0.008	1.000	0.041	441	0.063	0.364	1.000	0.901	419	0.025	0.618	1.000	0.999	298	0.035	0.543	1.000	0.963
SM C42:5	392	-8.544	0.638	1.000	0.800	404	0.029	0.689	1.000	0.930	384	0.008	0.872	1.000	0.999	265	0.002	0.973	1.000	0.988
SM C42:6	656	-24.192	0.094	1.000	0.256	665	-0.076	0.200	1.000	0.754	632	-0.008	0.840	1.000	0.999	450	-0.033	0.507	1.000	0.963
SM C43:0	321	-52.855	0.008	1.000	0.040	322	-0.074	0.394	1.000	0.901	313	0.001	0.978	1.000	0.999	212	-0.116	0.080	1.000	0.666
SM C43:2	624	-12.404	0.385	1.000	0.623	635	0.005	0.938	1.000	0.974	607	0.027	0.493	1.000	0.999	431	0.000	0.993	1.000	0.993
SM C44:6	406	-33.193	0.051	1.000	0.168	404	-0.080	0.265	1.000	0.790	388	-0.051	0.276	1.000	0.999	272	-0.059	0.308	1.000	0.907
Thr	661	17.174	0.231	1.000	0.478	674	0.010	0.862	1.000	0.951	642	0.000	0.999	1.000	0.999	460	0.044	0.355	1.000	0.907
Trp	658	11.645	0.426	1.000	0.645	671	0.042	0.492	1.000	0.901	639	0.060	0.148	1.000	0.999	457	0.073	0.149	1.000	0.666
Tyr	660	-3.012	0.837	1.000	0.902	673	0.064	0.282	1.000	0.797	641	0.113	0.005	0.970	0.970	459	0.061	0.208	1.000	0.748
Val	659	-13.844	0.337	1.000	0.583	672	0.022	0.714	1.000	0.932	640	0.058	0.146	1.000	0.999	459	0.082	0.089	1.000	0.666

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**Supplemental table 3 Sex stratified** analysis for birthweight. The associations between metabolite concentrations in cord blood and birth weight were determined using linear regression models adjusted for study center, sex, gestational age, maternal smoking during the third trimester, maternal pre pregnancy BMI, maternal weight gain during pregnancy and maternal education (defined as low: less than 10 years, medium=10 years and high: more than 10 years of education).

	Birth weight_Girls					Birth weight_Boys				
	N	$\beta$	p	p bonf	p fdr	N	$\beta$	p	p bonf	p fdr
Ala	307	-127.3326536	0.036583965	1	0.193694364	354	-93.73213777	0.074096683	1	0.418546131
Arg	308	39.3315306	0.215525366	1	0.472042638	354	24.15210429	0.369439783	1	0.735361092
Asn	308	-69.60892886	0.22155861	1	0.472507648	354	7.939297075	0.868857094	1	0.954240085
Asp	306	-59.45173308	0.077643801	1	0.261734749	353	4.452370025	0.890323634	1	0.954240085
C14:0	307	-100.916754	0.145712734	1	0.395505993	345	-97.47077318	0.091534031	1	0.464499245
C15:1	306	-29.71304996	0.478711368	1	0.709579262	348	-17.61570555	0.601961052	1	0.870238161
C16:0	309	80.28341159	0.41777425	1	0.646437724	353	-67.7815065	0.420410837	1	0.770195218
C16:1 n7	310	34.54871718	0.60962073	1	0.784054455	353	-43.44765936	0.429191282	1	0.770195218
C17:0	303	-166.8197693	0.010815829	1	0.095630123	348	-132.287287	0.016260348	1	0.17886383
C18:0	309	21.58160598	0.822887844	1	0.914806167	353	-53.64359391	0.525565565	1	0.833598357
C18:1 n7	310	128.6846646	0.112674968	1	0.32307275	353	11.23116766	0.872543624	1	0.954240085
C18:1 n9	309	119.4108012	0.216823413	1	0.472042638	352	-34.29347776	0.665965112	1	0.870238161

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C18:2 n6	309	-69.6388831	0.342043792		1	0.616268557	353	-166.1895635	0.005821016		1	0.076037022
C18:3 n3	300	-86.18616739	0.016013937		1	0.119532599	347	-84.37389458	0.004411739	0.922053458		0.061470231
C18:3 n6	302	-10.84746192	0.84439268		1	0.915052585	349	-33.39479847	0.475336069		1	0.814305233
C20:1 n9	292	-21.40548183	0.590180371		1	0.784054455	333	-32.15401139	0.375093164		1	0.739570484
C20:2 n6	302	26.91238641	0.618990359		1	0.784054455	347	25.08221237	0.598343232		1	0.870238161
C20:3 n3	299	-58.79386409	0.249551013		1	0.50656786	344	8.964407843	0.835692853		1	0.954240085
C20:3 n6	309	176.6425622	0.010799625		1	0.095630123	352	98.08196402	0.095960748		1	0.464499245
C20:3 n9	310	167.3663465	9.99E-08	2.09E-05		5.22E-06	353	163.4610229	2.14E-07	4.47E-05		1.49E-05
C20:4 n6	310	37.97901337	0.655464622		1	0.791861884	352	-107.6650358	0.155996884		1	0.537968259
C20:5 n3	307	-82.77486714	0.020980969		1	0.13715618	351	-53.78588382	0.111337569		1	0.470508494
C22:4 n6	300	5.046841435	0.941433965		1	0.961052504	345	5.299833417	0.92214657		1	0.962085107
C22:5 n3	309	-75.18124376	0.053736579		1	0.207863201	351	-57.32014461	0.09409776		1	0.464499245
C22:5 n6	310	213.4839054	1.58E-05	0.003298551		0.000366506	353	121.4503756	0.002014373	0.421004027		0.039938624
C22:6 n3	310	-98.69918389	0.116912357		1	0.330198414	353	-106.1319236	0.060520408		1	0.361393296
AC C10:0	280	-8.916006176	0.845000712		1	0.915052585	328	-60.91444243	0.077127185		1	0.424199515
AC C10:1	271	-22.23682436	0.629842047		1	0.787213709	319	-57.96973465	0.113349842		1	0.470508494
AC C12:0	288	-99.09822418	0.010920369		1	0.095630123	332	-27.81210247	0.429068716		1	0.770195218
AC C14:1	307	-22.08254848	0.613465401		1	0.784054455	354	-79.96118062	0.025899256		1	0.235345416
AC C16:0	309	-13.5921126	0.713487142		1	0.833065993	354	1.868952483	0.953302154		1	0.969997189
AC C18:1	292	-33.62334872	0.345777877		1	0.617671592	337	-18.29060778	0.56492259		1	0.849415981
AC C2:0	307	-60.69793999	0.182901077		1	0.439270879	353	-134.8667384	0.00209693	0.438258392		0.039938624



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AC C3:0	307	-8.746368264	0.831508485		1	0.915052585	355	-50.95604993	0.195973529		1	0.590177482
AC C8:1	308	-35.46845331	0.207477543		1	0.466266737	354	-49.8166368	0.033119741		1	0.269248704
Cit	304	-10.42209708	0.841229188		1	0.915052585	351	41.35344995	0.348178355		1	0.725556606
Gln	302	-0.41691112	0.991728505		1	0.991728505	342	-22.30398044	0.503506379		1	0.828604985
Glu	278	-25.91598327	0.660617678		1	0.793500545	323	8.679070278	0.873522939		1	0.954240085
Gly	308	-73.74687514	0.239887653		1	0.501365196	355	54.62294843	0.296528077		1	0.666391055
H1	297	13.231302	0.398647498		1	0.645870752	347	6.400443677	0.656033997		1	0.870238161
His	308	73.05960631	0.281065525		1	0.538923806	354	205.0141458	0.000357735	0.074766563		0.010680938
Ile	306	-42.33221242	0.586567725		1	0.784054455	354	116.1184735	0.055420008		1	0.343934554
Leu	307	-136.4039769	0.077227651		1	0.261734749	354	51.07202478	0.415528246		1	0.770195218
Lys	262	-201.8102629	0.027457229		1	0.168781204	289	108.189673	0.134624675		1	0.506477044
LPCa C14:0	308	154.7518016	0.002221274	0.464246273		0.033160448	354	195.3891366	2.05E-05	0.004278684		0.000855737
LPCa C16:0	308	217.3468234	0.000502414	0.105004605		0.01050046	354	169.1529768	0.003577556	0.747709192		0.054384438
LPCa C16:1	309	299.8938931	4.37E-11	9.12E-09		9.12E-09	353	291.635456	2.92E-10	6.09E-08		6.09E-08
LPCa C18:0	309	83.7092534	0.112389003		1	0.32307275	354	65.1608845	0.191595121		1	0.590177482
LPCa C18:1	309	313.8219869	5.25E-10	1.10E-07		5.49E-08	355	308.9260128	1.59E-09	3.31E-07		1.66E-07
LPCa C18:2	306	235.1178679	5.83E-07	0.000121819		2.44E-05	355	140.0994494	0.000824102	0.17223726		0.021529657
LPCa C18:3	256	85.57544347	0.01072331		1	0.095630123	299	117.2705279	0.000191751	0.040075921		0.00667932
LPCa C20:3	306	236.613175	3.16E-08	6.60E-06		2.20E-06	355	195.7894446	3.47E-07	7.26E-05		1.81E-05
LPCa C20:4	306	233.8826586	2.22E-06	0.000463275		6.62E-05	354	125.8217223	0.003241487	0.677470734		0.054384438
LPCa C22:6	276	94.72755886	0.039637553		1	0.193694364	325	107.9125745	0.008126986		1	0.099914117

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LPCe C16:0	293	94.61995853	0.02358261	1	0.149356532	335	75.98347596	0.046562833	1	0.324387737
LPCe C18:0	304	3.040473107	0.942113389	1	0.961052504	354	-11.8794777	0.735521147	1	0.893743719
LPCe C18:1	170	72.41558443	0.15739713	1	0.416405066	203	100.253275	0.034783325	1	0.269248704
Met	307	-179.3671434	0.007700661	1	0.084707266	354	47.85175894	0.366208132	1	0.735361092
Orn	306	-102.3986088	0.040944295	1	0.193694364	355	51.73517054	0.215695445	1	0.607862018
PCa C28:2	243	-49.66448054	0.164770742	1	0.422484738	275	13.38144473	0.67453867	1	0.870238161
PCa C30:0	308	3.563466579	0.933060215	1	0.961052504	354	-18.5022806	0.637745479	1	0.870238161
PCa C30:2	295	-47.52892023	0.324846666	1	0.591167085	338	-20.27683847	0.625835591	1	0.870238161
PCa C32:0	309	-51.21648438	0.312046427	1	0.577147816	355	-72.93855667	0.104277104	1	0.470508494
PCa C32:1	309	95.25922873	0.013447025	1	0.112417131	353	54.83508397	0.11637927	1	0.470508494
PCa C32:2	307	62.30835498	0.215750818	1	0.472042638	351	-9.468316994	0.814374146	1	0.945578869
PCa C32:3	306	82.83230315	0.083990335	1	0.274280938	349	44.851112	0.283329383	1	0.658196465
PCa C34:1	309	78.38476637	0.171886075	1	0.427668924	354	31.03894835	0.536506302	1	0.833598357
PCa C34:2	307	-12.23070746	0.819570937	1	0.914806167	354	-58.48434854	0.168063117	1	0.548831116
PCa C34:3	309	52.92070781	0.267510113	1	0.517681608	354	11.48726341	0.7790752	1	0.925151801
PCa C34:4	309	20.18755172	0.636550798	1	0.787213709	353	28.65610521	0.431161916	1	0.770195218
PCa C34:5	209	2.869120881	0.931273683	1	0.961052504	238	10.82054412	0.68679757	1	0.875248122
PCa C36:1	307	75.46119724	0.180947264	1	0.439270879	354	41.20208895	0.415590689	1	0.770195218
PCa C36:2	306	-6.959607438	0.899992533	1	0.949992118	354	-20.38975803	0.654826366	1	0.870238161
PCa C36:3	307	139.0501451	0.01098145	1	0.095630123	354	90.36654993	0.044206319	1	0.318590369
PCa C36:4	308	12.25140824	0.835310082	1	0.915052585	354	-75.65678237	0.128463515	1	0.506477044

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PCa C36:5	309	-123.0150606	0.006737527	1	0.078230175	354	-60.5166899	0.106904704	1	0.470508494
PCa C36:6	288	-18.36260791	0.571818696	1	0.781111814	321	-20.9096389	0.486161576	1	0.819417495
PCa C38:0	307	-47.65650858	0.265966701	1	0.517681608	352	-30.38614384	0.438304869	1	0.77631964
PCa C38:2	257	-18.16414133	0.640632205	1	0.787600769	298	-2.088926278	0.948196032	1	0.969997189
PCa C38:3	307	123.210629	0.036573375	1	0.193694364	354	33.32944894	0.472238123	1	0.814305233
PCa C38:4	308	-28.86122186	0.632868518	1	0.787213709	354	-108.6269192	0.034283428	1	0.269248704
PCa C38:5	307	48.40401175	0.430713342	1	0.657073638	352	-9.251487591	0.861566874	1	0.954240085
PCa C38:6	308	-58.82389929	0.254647237	1	0.511743005	353	-89.76288771	0.055055213	1	0.343934554
PCa C40:0	244	-22.2639619	0.580493036	1	0.782729319	278	-19.61207606	0.590938102	1	0.870238161
PCa C40:4	295	58.35433724	0.249648276	1	0.50656786	338	-24.65714567	0.556515674	1	0.842838955
PCa C40:5	308	89.18082876	0.041643827	1	0.193694364	355	39.40516312	0.23160602	1	0.607862018
PCa C40:6	309	-61.8404918	0.163183284	1	0.422484738	354	-50.99094624	0.223899388	1	0.607862018
PCa C42:0	212	-88.47099375	0.041228578	1	0.193694364	240	-7.777218074	0.853157331	1	0.954240085
PCa C42:1	156	-125.469724	0.032495575	1	0.193694364	189	-77.9788472	0.117064314	1	0.470508494
PCa C42:5	167	-43.08794754	0.440356462	1	0.66525198	189	-87.75070893	0.064550226	1	0.374749924
PCa C43:6	293	-26.79532657	0.520571109	1	0.740131713	334	-18.68847155	0.609628181	1	0.870238161
PCa C44:12	294	5.782466879	0.888636277	1	0.944836912	331	11.31289497	0.750704378	1	0.902262667
PCe C32:0	309	83.57830218	0.086935947	1	0.279532507	355	-5.639926886	0.894885439	1	0.954240085
PCe C32:1	309	18.90370203	0.695602036	1	0.826027417	355	-27.04159157	0.544211987	1	0.833598357
PCe C32:2	293	-4.451372647	0.914789458	1	0.960758777	340	-29.30482704	0.388545151	1	0.755051745
PCe C34:0	309	-26.10993477	0.509176987	1	0.739013821	355	-35.9680254	0.311529459	1	0.682473902

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PCe C34:1	309	66.78156896	0.184956159		1	0.439270879	354	20.30638896	0.668646651		1	0.870238161
PCe C34:2	308	-13.97814726	0.787633285		1	0.894648677	354	-10.56466322	0.823524555		1	0.950920619
PCe C34:3	308	-79.55244356	0.059586135		1	0.214715554	354	-91.09884473	0.017365189		1	0.181466222
PCe C34:4	257	-10.38871189	0.723448618		1	0.840004229	302	-2.975225477	0.893285057		1	0.954240085
PCe C36:0	253	-19.59930359	0.645334238		1	0.788741846	284	23.78763462	0.546425717		1	0.833598357
PCe C36:1	308	-37.60932366	0.413409142		1	0.646437724	354	-19.43919494	0.634918545		1	0.870238161
PCe C36:2	308	-25.29556296	0.607561303		1	0.784054455	353	-60.23810559	0.154391986		1	0.537968259
PCe C36:3	306	94.01624883	0.058988337		1	0.214715554	354	44.88807395	0.294543033		1	0.666391055
PCe C36:4	308	84.40074857	0.132482229		1	0.369183812	354	-6.72451077	0.888081358		1	0.954240085
PCe C36:5	308	-60.82542377	0.243226857		1	0.503311021	354	-61.98891096	0.162170482		1	0.537994139
PCe C36:6	178	-1.540919077	0.942659155		1	0.961052504	200	-3.415128677	0.853244504		1	0.954240085
PCe C38:0	308	-112.5664994	0.004357886	0.910798088		0.053576358	352	-103.2498676	0.003642977	0.761382138		0.054384438
PCe C38:2	302	-39.60318307	0.19336963		1	0.454008305	350	14.33330552	0.573381633		1	0.855976866
PCe C38:3	303	-76.63457533	0.057672109		1	0.214715554	351	-41.56998255	0.225183632		1	0.607862018
PCe C38:4	308	-2.04679096	0.972318631		1	0.981713014	353	-58.71221875	0.249973255		1	0.614640121
PCe C38:5	308	34.50204466	0.534200192		1	0.754377299	353	0.07820553	0.998715052		1	0.998715052
PCe C38:6	309	-52.68912388	0.300382985		1	0.560536107	353	-58.97072434	0.19513026		1	0.590177482
PCe C40:0	308	-90.90804878	0.088770927		1	0.281107934	353	-54.65612481	0.272192711		1	0.653888237
PCe C40:1	271	0.752888113	0.983450976		1	0.988179106	306	11.92377696	0.724049091		1	0.886426234
PCe C40:3	240	-25.82138502	0.445623336		1	0.66525198	277	-49.46905329	0.097789315		1	0.464499245
PCe C40:4	307	-111.949718	0.015502085		1	0.119532599	351	-40.36847861	0.329698311		1	0.705908753

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PCe C40:5	305	-88.56155694	0.044072911		1	0.193694364	351	-32.34690541	0.366900681		1	0.735361092
PCe C40:6	308	-94.64444416	0.053032219		1	0.207863201	352	-135.7794759	0.002102033	0.439324864		0.039938624
PCe C42:1	176	-37.68710353	0.408735991		1	0.646437724	194	-51.10956553	0.197667099		1	0.590177482
PCe C42:2	245	-8.051752286	0.818173737		1	0.914806167	283	-29.86070354	0.300297234		1	0.667682148
PCe C42:3	212	-33.7108218	0.368546329		1	0.636292323	238	-21.23861938	0.516207255		1	0.833598357
PCe C42:4	288	-70.48889571	0.104243761		1	0.314216373	323	-22.37328388	0.539354693		1	0.833598357
PCe C42:5	275	-46.44287095	0.297423401		1	0.56001343	308	-9.016914464	0.805916443		1	0.940986238
PCe C42:6	283	-84.95462358	0.041920861		1	0.193694364	315	-71.60159986	0.048793854		1	0.328965014
Phe	308	-230.7441553	0.0036767	0.768430333		0.048026896	355	51.65421181	0.429916742		1	0.770195218
Pro	308	-178.3677367	0.014186673		1	0.114039025	354	55.67954383	0.350627833		1	0.725556606
Ser	307	-67.04204286	0.239674423		1	0.501365196	354	23.57205033	0.622308386		1	0.870238161
SM C21:2	203	47.85446346	0.136502623		1	0.375382214	230	-9.790501289	0.696508843		1	0.88151474
SM C30:1	245	-72.29544858	0.054700842		1	0.207863201	284	8.876758535	0.772964123		1	0.92314001
SM C31:1	165	31.48299171	0.408817967		1	0.646437724	198	-49.9234003	0.155003828		1	0.537968259
SM C32:1	309	47.00965902	0.371424227		1	0.636292323	354	-13.18935551	0.797582608		1	0.940986238
SM C32:2	308	93.28771558	0.039414885		1	0.193694364	354	34.49605338	0.360957205		1	0.735361092
SM C33:1	308	42.68100665	0.420648471		1	0.646437724	354	-58.37013546	0.25547962		1	0.62087489
SM C34:0	306	21.37058175	0.711986449		1	0.833065993	352	22.12137831	0.671363997		1	0.870238161
SM C34:1	308	-11.0692247	0.860988241		1	0.927559497	354	-72.81386045	0.243676765		1	0.607862018
SM C34:2	309	88.7831974	0.105239934		1	0.314216373	355	2.613983787	0.958449742		1	0.969997189
SM C35:1	308	15.06174663	0.767956558		1	0.87706514	354	-99.52627657	0.041689955		1	0.311185739

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SM C35:2	273	-14.39853065	0.744673137	1	0.856866819	306	25.46324698	0.513650031	1	0.833598357
SM C36:0	210	62.57887446	0.39664388	1	0.645870752	250	64.87315604	0.24430818	1	0.607862018
SM C36:1	308	54.23220798	0.385928557	1	0.645870752	355	-24.17854319	0.66754875	1	0.870238161
SM C36:2	309	43.7873094	0.44302909	1	0.66525198	355	38.60618303	0.42714077	1	0.770195218
SM C36:3	283	72.15946045	0.078989353	1	0.262044043	328	-41.14811013	0.23929411	1	0.607862018
SM C37:2	180	7.599137351	0.886426782	1	0.944836912	221	43.15198508	0.333227437	1	0.705908753
SM C37:3	299	-24.3254812	0.418659967	1	0.646437724	339	10.03330075	0.72470178	1	0.886426234
SM C38:1	258	65.12673368	0.286915815	1	0.545140049	297	21.06286706	0.708586011	1	0.88151474
SM C38:2	308	71.67028735	0.200055811	1	0.459468841	354	-35.84173145	0.454715536	1	0.798618043
SM C38:3	304	22.65764293	0.618834716	1	0.784054455	349	-35.03566253	0.286674707	1	0.658406745
SM C39:1	306	-64.59842522	0.171625464	1	0.427668924	353	-48.59392896	0.22952425	1	0.607862018
SM C39:4	215	-4.347274605	0.92307048	1	0.961052504	251	-66.95376838	0.084810829	1	0.45449906
SM C39:5	290	-51.34486204	0.205325719	1	0.466266737	332	17.04264856	0.638191591	1	0.870238161
SM C40:1	286	66.12435493	0.263455184	1	0.517681608	323	5.476648346	0.918969856	1	0.962085107
SM C40:2	309	27.6813513	0.604512077	1	0.784054455	354	-30.16638414	0.529318806	1	0.833598357
SM C40:3	183	31.6741413	0.578592802	1	0.782729319	220	19.04307645	0.681691814	1	0.874071098
SM C40:4	305	31.59217842	0.564957876	1	0.781111814	351	-68.18469008	0.146136668	1	0.53583445
SM C40:5	274	-136.1831007	0.002494869	0.521427546	0.034761836	323	-38.0546743	0.283433884	1	0.658196465
SM C41:1	307	-95.7845329	0.043887621	1	0.193694364	354	-30.92912733	0.481754858	1	0.818591588
SM C41:2	308	-26.70371713	0.555415332	1	0.773878697	354	-65.2280705	0.110812891	1	0.470508494
SM C41:5	234	16.04170684	0.708066636	1	0.833065993	272	10.88231988	0.751166048	1	0.902262667

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SM C42:1	308	-40.78925927	0.495644503	1	0.724403504	355	-35.39420428	0.498378087	1	0.826674764
SM C42:2	307	-3.536585299	0.953412876	1	0.96729753	353	-36.22436523	0.490865012	1	0.8207263
SM C42:3	309	67.10621576	0.165759562	1	0.422484738	355	-20.73689655	0.618946554	1	0.870238161
SM C42:4	195	-144.7022383	0.051770934	1	0.207863201	241	-82.02785843	0.133775428	1	0.506477044
SM C42:5	177	14.27832722	0.746171106	1	0.856866819	215	-32.55325057	0.395158097	1	0.75768846
SM C42:6	306	-34.68651607	0.491917313	1	0.724019144	350	-60.23945438	0.159536545	1	0.537968259
SM C43:0	142	-114.8121595	0.112843592	1	0.32307275	179	-113.7731869	0.028400483	1	0.247320877
SM C43:2	290	-43.81726418	0.325283324	1	0.591167085	334	-3.56455567	0.926142477	1	0.962085107
SM C44:6	187	-63.2470571	0.184245629	1	0.439270879	219	-51.44638369	0.201932102	1	0.594419849
Thr	308	32.17720114	0.609005387	1	0.784054455	353	68.21266774	0.239806108	1	0.607862018
Trp	307	-92.56861358	0.257345818	1	0.512240724	351	126.9736622	0.055951076	1	0.343934554
Tyr	307	-137.8549319	0.076531634	1	0.261734749	353	82.95402024	0.227106842	1	0.607862018
Val	308	-215.1440605	0.017731676	1	0.123530678	351	54.35610635	0.473484897	1	0.814305233
NEFA 12:0	308	-13.51776384	0.596583367	1	0.784054455	353	-8.337072663	0.707627385	1	0.88151474
NEFA 14:0	308	-18.89197275	0.516619556	1	0.739544433	353	4.392399246	0.856368302	1	0.954240085
NEFA 14:1	309	-15.94302094	0.516333921	1	0.739544433	354	-7.219132151	0.725257828	1	0.886426234
NEFA 15:0	307	-29.20388013	0.388539473	1	0.645870752	353	4.334155863	0.881042242	1	0.954240085
NEFA 15:1	266	-28.74432056	0.358170133	1	0.629055107	309	-9.636774734	0.707066321	1	0.88151474
NEFA 16:0	308	-97.37914862	0.04448483	1	0.193694364	353	-36.9969551	0.39017028	1	0.755051745
NEFA 16:1	309	-24.21549966	0.398542086	1	0.645870752	355	-15.31212601	0.520795395	1	0.833598357
NEFA 16:2	279	-75.42261335	0.0530558	1	0.207863201	322	-34.74341086	0.243659051	1	0.607862018

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NEFA 16:3	244	-105.5234027	0.017596149		1	0.123530678	285	-53.78487674	0.135706768	1	0.506477044
NEFA 17:0	308	-93.60031369	0.060880462		1	0.215661296	353	-46.75188199	0.278976231	1	0.658196465
NEFA 17:1	308	-30.35310543	0.406400507		1	0.646437724	353	1.381653032	0.965356054	1	0.969997189
NEFA 18:0	307	-111.0516751	0.050673941		1	0.207863201	352	-83.25848056	0.106982046	1	0.470508494
NEFA 18:1	308	-33.17195711	0.391066677		1	0.645870752	353	-1.580624081	0.961585938	1	0.969997189
NEFA 18:2	308	-63.75882635	0.094572518		1	0.290671417	353	-15.7907109	0.616055391	1	0.870238161
NEFA 18:3	308	-43.73951521	0.151763117		1	0.406647327	353	2.607648194	0.916116701	1	0.962085107
NEFA 18:4	278	-66.65643733	0.033534248		1	0.193694364	313	-28.61444257	0.233007049	1	0.607862018
NEFA 19:1	308	-49.97133846	0.221329792		1	0.472507648	353	-18.19053041	0.612537556	1	0.870238161
NEFA 20:0	242	-52.19071507	0.356660961		1	0.629055107	288	-5.364719978	0.91687205	1	0.962085107
NEFA 20:1	308	-22.07581721	0.635537312		1	0.787213709	353	18.0748347	0.648419787	1	0.870238161
NEFA 20:2	268	-104.9604024	0.020999989		1	0.13715618	315	-61.57746712	0.095673535	1	0.464499245
NEFA 20:3	294	-75.55759449	0.093995816		1	0.290671417	336	-3.561253058	0.929862161	1	0.962085107
NEFA 20:4	309	-89.51961805	0.042346333		1	0.193694364	352	-20.63370377	0.611522772	1	0.870238161
NEFA 20:5	278	-142.1348	7.84E-06	0.001639512		0.000204939	322	-69.90135082	0.011120737	1	0.129124116
NEFA 22:0	250	-15.48004835	0.649694564		1	0.789454441	301	-8.266135581	0.80264701	1	0.940986238
NEFA 22:1	269	17.39730142	0.679453381		1	0.811461467	315	23.47420643	0.543290921	1	0.833598357
NEFA 22:2	264	-47.10325727	0.364467199		1	0.634780372	310	20.41271849	0.653120472	1	0.870238161
NEFA 22:3	242	-12.70783517	0.812967515		1	0.914806167	269	3.46068184	0.940804931	1	0.968611973
NEFA 22:4	308	-162.8960414	0.001025338	0.214295583		0.019481417	353	-43.78449098	0.33437783	1	0.705908753
NEFA 22:5	308	-146.3718512	0.001359546	0.284145171		0.022597613	354	-38.56798022	0.313480835	1	0.682473902



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NEFA 22:6	308	-215.7626586	2.05E-06	0.000428966	6.62E-05	353	-90.67130574	0.025497706	1	0.235345416
NEFA 24:1	295	8.428671505	0.890587903	1	0.944836912	336	9.283584361	0.867523113	1	0.954240085
NEFA 24:2	222	-97.40242335	0.195505969	1	0.454008305	260	-136.4879259	0.022184017	1	0.220783788
NEFA 24:3	233	-35.92745122	0.569212055	1	0.781111814	274	8.046454912	0.882145407	1	0.954240085
NEFA 24:4	308	-159.8286881	0.001405593	0.293768972	0.022597613	354	-56.29208923	0.216537843	1	0.607862018
NEFA 26:0	254	-39.0151058	0.388919473	1	0.645870752	302	-57.69614852	0.15958867	1	0.537968259
NEFA 26:3	261	-35.265179	0.549440667	1	0.770691943	307	76.25050091	0.181593252	1	0.58389215
NEFA 26:4	220	-131.9724276	0.054613232	1	0.207863201	250	-85.82984225	0.19749511	1	0.590177482

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**Supplemental table 4** To determine the potential effect of maternal pre-pregnancy BMI, weight gain during pregnancy and gestational diabetes, we additionally calculated linear regression models using cord blood metabolites as outcome for each **maternal factor**.

	Maternal weight gain				Pre-pregnancy BMI				Gestational diabetes			
	$\beta$	p	p bonf	p fdr	$\beta$	p	p bonf	p fdr	$\beta$	p	p bonf	p fdr
Ala	0.271804885	0.041019946	1	0.476287156	-0.006467014	0.17884007	1	0.783684185	0.046780022	0.636684171	1	0.985032959
Arg	-0.218318817	0.390845548	1	0.928258176	-0.008235835	0.365574501	1	0.784196605	-0.026813501	0.88896651	1	0.985032959
Asn	0.063618787	0.658173354	1	0.93421204	-0.011669636	0.022389639	1	0.645841475	0.044732905	0.676989469	1	0.985032959
Asp	-0.051655485	0.817911858	1	0.93421204	-0.008878315	0.266992595	1	0.783684185	0.015309221	0.926519831	1	0.985032959
Cit	0.150456141	0.336170912	1	0.90076565	-0.005551864	0.328126009	1	0.783684185	0.149065232	0.210491193	1	0.985032959
Gln	0.120379532	0.564761264	1	0.93421204	-0.009782483	0.190643749	1	0.783684185	-0.019615328	0.901123835	1	0.985032959
Glu	-0.080753991	0.577608524	1	0.93421204	-0.006314948	0.223393199	1	0.783684185	0.016001767	0.875226553	1	0.985032959
Gly	-0.028207262	0.827168104	1	0.93421204	-0.004879873	0.290654224	1	0.783684185	0.006608483	0.945477501	1	0.985032959
His	0.082381265	0.486524309	1	0.93421204	-0.003609023	0.401082364	1	0.796255118	0.158542735	0.082627626	1	0.985032959
Ile	0.113935485	0.295432277	1	0.856252495	0.004495483	0.249468929	1	0.783684185	0.013684154	0.871589382	1	0.985032959
Leu	0.122025369	0.257862993	1	0.845683139	0.004006271	0.30148465	1	0.783684185	-0.007294264	0.928732494	1	0.985032959
Lys	0.080146395	0.495615007	1	0.93421204	-3.64E-06	0.999300732	1	0.999300732	-0.033154056	0.695269639	1	0.985032959
Met	0.17033596	0.179285526	1	0.749413499	-0.007083718	0.122878453	1	0.755341082	-0.023210053	0.804727394	1	0.985032959
Orn	0.049359871	0.768287163	1	0.93421204	-0.011183942	0.060523319	1	0.733952881	-0.057109525	0.646744062	1	0.985032959
Phe	0.091159982	0.375258759	1	0.928258176	0.001879132	0.613124374	1	0.889881904	-0.040881827	0.584700914	1	0.985032959
Pro	0.061650465	0.58546537	1	0.93421204	-0.009898461	0.01491653	1	0.623510952	-0.023628915	0.781999024	1	0.985032959

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Trp	-0.250069744	0.013356407	1	0.348936129	0.00639905	0.078739953	1	0.733952881	-0.083164585	0.267655568	1	0.985032959
Ser	0.073727431	0.606066362	1	0.93421204	-0.006051092	0.237727342	1	0.783684185	0.003463021	0.974046912	1	0.985032959
Thr	-0.070704189	0.566114003	1	0.93421204	-0.009363353	0.03503628	1	0.665689318	0.152141085	0.103487118	1	0.985032959
Tyr	0.292954116	0.004467115	0.93362694	0.186725388	0.004681761	0.207792914	1	0.783684185	-0.008270004	0.916564657	1	0.985032959
Val	-0.013232073	0.883353465	1	0.93421204	0.004350755	0.179363705	1	0.783684185	-0.057208514	0.398187589	1	0.985032959
NEFA 12:0	-0.114663043	0.714289517	1	0.93421204	-0.026019648	0.021347218	1	0.645841475	0.158524969	0.517022668	1	0.985032959
NEFA 14:0	-0.316395339	0.260252808	1	0.845683139	-0.007368251	0.467333117	1	0.865713557	0.098549348	0.642526503	1	0.985032959
NEFA 14:1	-0.228268483	0.489299877	1	0.93421204	0.003064678	0.797671172	1	0.96151916	0.197185415	0.423509357	1	0.985032959
NEFA 15:0	-0.501132937	0.039413112	1	0.476287156	-0.013616382	0.119310719	1	0.755341082	0.070327379	0.700119163	1	0.985032959
NEFA 15:1	-0.141693058	0.642440614	1	0.93421204	-0.007594172	0.493425322	1	0.865713557	-0.109473712	0.646182925	1	0.985032959
NEFA 16:0	-0.086320553	0.600764705	1	0.93421204	0.008715741	0.139628035	1	0.783684185	0.057825221	0.635149074	1	0.985032959
NEFA 16:1	-0.259426998	0.360510392	1	0.928258176	0.018438994	0.071995621	1	0.733952881	0.084088212	0.693734239	1	0.985032959
NEFA 17:0	-0.443998544	0.007209188	1	0.251120043	-0.00329806	0.577900837	1	0.889881904	0.003560197	0.977035055	1	0.985032959
NEFA 17:1	-0.359270879	0.104334697	1	0.589350043	0.004050783	0.610863201	1	0.889881904	0.155866633	0.345347118	1	0.985032959
NEFA 18:0	-0.034951203	0.802907061	1	0.93421204	0.00844093	0.091305143	1	0.733952881	-0.034007763	0.744908962	1	0.985032959
NEFA 18:1	-0.240025269	0.254685134	1	0.845683139	0.015514585	0.040342712	1	0.702635575	0.112335542	0.47104459	1	0.985032959
NEFA 18:2	-0.055788572	0.795510416	1	0.93421204	0.004591654	0.553662941	1	0.889881904	0.111732454	0.490202837	1	0.985032959
NEFA 18:3	0.072143986	0.791134637	1	0.93421204	0.006948805	0.478843842	1	0.865713557	0.173169666	0.392630039	1	0.985032959
NEFA 20:0	-0.068956274	0.692439276	1	0.93421204	0.0026992	0.663945302	1	0.901068625	0.146491642	0.336201783	1	0.985032959
NEFA 20:1	-0.318405227	0.069120671	1	0.563380942	0.009958372	0.112736638	1	0.755341082	0.115390882	0.36669573	1	0.985032959
NEFA 20:2	0.459390193	0.024586618	1	0.395277172	0.007061485	0.340862578	1	0.783684185	0.09018493	0.565641351	1	0.985032959
NEFA 20:3	0.090044332	0.614409839	1	0.93421204	0.00614067	0.343087109	1	0.783684185	0.014680063	0.907613584	1	0.985032959
NEFA 20:4	-0.075136857	0.667161602	1	0.93421204	0.004348576	0.490780254	1	0.865713557	0.048490414	0.695256487	1	0.985032959

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NEFA 22:0	-0.015445007	0.95397122	1	0.977352868	-0.004993152	0.608024092	1	0.889881904	0.164704194	0.389479664	1	0.985032959
NEFA 22:1	-0.23074984	0.267057833	1	0.845683139	0.008044254	0.285725749	1	0.783684185	0.14926103	0.304251237	1	0.985032959
NEFA 22:2	0.075116507	0.66673801	1	0.93421204	0.007023047	0.27032566	1	0.783684185	0.05023974	0.695957908	1	0.985032959
NEFA 22:6	-0.036306554	0.834034747	1	0.93421204	0.01088622	0.083887795	1	0.733952881	-0.063603222	0.606299825	1	0.985032959
NEFA 24:1	-0.203772148	0.125830714	1	0.657465483	0.007757415	0.107116663	1	0.755341082	0.075916439	0.445679088	1	0.985032959
NEFA 16:2	-0.109390244	0.647532584	1	0.93421204	0.009121485	0.293607853	1	0.783684185	0.084886444	0.626444846	1	0.985032959
NEFA 16:3	0.01654671	0.942934467	1	0.975597148	0.012247993	0.148124559	1	0.783684185	0.09498864	0.554677422	1	0.985032959
NEFA 18:4	-0.112842906	0.708364424	1	0.93421204	0.004009043	0.714009556	1	0.932945422	0.199064526	0.376873122	1	0.985032959
NEFA 19:1	-0.342321008	0.084422468	1	0.564550669	0.002230483	0.753241536	1	0.956734353	-0.045322287	0.76495487	1	0.985032959
NEFA 20:5	0.374691682	0.170711242	1	0.728135704	0.010421338	0.293532201	1	0.783684185	0.01875616	0.934907606	1	0.985032959
NEFA 22:3	0.097983587	0.598614369	1	0.93421204	0.01039643	0.118022317	1	0.755341082	0.223417925	0.079038242	1	0.985032959
NEFA 22:4	0.026910805	0.864134315	1	0.93421204	0.015045967	0.00821581	1	0.623510952	0.014241103	0.900669899	1	0.985032959
NEFA 22:5	0.040659913	0.819601567	1	0.93421204	0.011017706	0.087485226	1	0.733952881	-0.012739905	0.922550601	1	0.985032959
NEFA 24:2	0.171588748	0.252255683	1	0.845683139	0.004623144	0.385110448	1	0.784196605	0.065290748	0.531563648	1	0.985032959
NEFA 24:3	0.060508011	0.714518317	1	0.93421204	-0.00220332	0.713961336	1	0.932945422	-0.031384879	0.832916162	1	0.985032959
NEFA 24:4	0.044976233	0.774973231	1	0.93421204	0.010456722	0.065415306	1	0.733952881	0.142960547	0.221348473	1	0.985032959
NEFA 26:0	-0.164224828	0.427786037	1	0.93421204	0.000746867	0.918196046	1	0.971782693	-0.167483492	0.330333442	1	0.985032959
NEFA 26:3	-0.053380028	0.726140669	1	0.93421204	0.005658367	0.308379066	1	0.783684185	0.064007757	0.587678536	1	0.985032959
NEFA 26:4	-0.005999563	0.968792131	1	0.981471063	0.012523415	0.024721205	1	0.645841475	0.080408555	0.503726548	1	0.985032959
C14:0	-0.017452608	0.885042985	1	0.93421204	-0.001235249	0.773644927	1	0.956734353	-0.044797662	0.635690816	1	0.985032959
C15:1	-0.162420265	0.434788755	1	0.93421204	-0.009325994	0.207833699	1	0.783684185	-0.249098932	0.135825364	1	0.985032959
C16:0	-0.06291987	0.44086506	1	0.93421204	0.001700412	0.556906452	1	0.889881904	0.019197287	0.753050119	1	0.985032959
C16:1 n7	-0.013589476	0.910307045	1	0.951270862	0.000216047	0.960146814	1	0.990592447	-0.058080445	0.50999744	1	0.985032959

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C17:0	-0.284575088	0.028746462	1	0.429143615	0.003079292	0.501202586	1	0.865713557	0.072823289	0.445271626	1	0.985032959
C18:0	-0.031448739	0.704240706	1	0.93421204	0.003938971	0.18233478	1	0.783684185	0.015821086	0.794435777	1	0.985032959
C18:1 n9	-0.171841254	0.040232705	1	0.476287156	0.004321422	0.147299314	1	0.783684185	-0.02516637	0.685216771	1	0.985032959
C18:1 n7	-0.168371844	0.08975818	1	0.564550669	0.006043106	0.087890632	1	0.733952881	0.033270659	0.652605425	1	0.985032959
C18:2 n6	0.051932509	0.635052461	1	0.93421204	0.002367919	0.54623657	1	0.889881904	0.023420465	0.770994001	1	0.985032959
C18:3 n6	-0.132209398	0.372160555	1	0.928258176	-0.00337254	0.522280312	1	0.884256244	-0.003276421	0.976528269	1	0.985032959
C18:3 n3	0.380781614	0.103706758	1	0.589350043	0.007463758	0.367378961	1	0.784196605	0.328342304	0.059744626	1	0.985032959
C20:1 n9	-0.114441388	0.575285285	1	0.93421204	-8.48E-05	0.990737459	1	0.999300732	0.26260713	0.087848357	1	0.985032959
C20:2 n6	-0.031935173	0.829296959	1	0.93421204	-0.002784246	0.593219413	1	0.889881904	0.215938184	0.06042962	1	0.985032959
C20:3 n9	-0.802172385	0.000522435	0.109188902	0.109100858	-0.014903722	0.073809873	1	0.733952881	0.098474814	0.581103167	1	0.985032959
C20:3 n6	0.025622564	0.82320782	1	0.93421204	-0.000459339	0.910907041	1	0.971782693	0.033284504	0.689282699	1	0.985032959
C20:4 n6	-0.099805417	0.281535786	1	0.856252495	0.00493721	0.139082747	1	0.783684185	0.005505386	0.935182213	1	0.985032959
C20:3 n3	0.023536248	0.883556106	1	0.93421204	-0.001664948	0.769544422	1	0.956734353	0.115871053	0.337955972	1	0.985032959
C20:5 n3	0.031638357	0.881992051	1	0.93421204	-0.001819586	0.812041304	1	0.964299048	0.13378447	0.394040548	1	0.985032959
C22:4 n6	0.078825387	0.528401608	1	0.93421204	0.003806564	0.389995928	1	0.784196605	0.228319664	0.016259236	1	0.985032959
C22:5 n6	-0.33740147	0.038895944	1	0.476287156	-0.004628422	0.4325227	1	0.824067275	0.23765887	0.052454845	1	0.985032959
C22:5 n3	0.354883675	0.092278925	1	0.564550669	0.004077603	0.58850229	1	0.889881904	0.299654465	0.05334624	1	0.985032959
C22:6 n3	-0.05969634	0.639692864	1	0.93421204	0.004050845	0.371865012	1	0.784196605	0.015037336	0.872181502	1	0.985032959
AC C10:0	-0.183613752	0.378327252	1	0.928258176	0.008008784	0.274825978	1	0.783684185	0.004610147	0.97755191	1	0.985032959
AC C10:1	0.252839815	0.219811463	1	0.805975365	0.00725535	0.329790461	1	0.783684185	-0.033093236	0.832293908	1	0.985032959
AC C12:0	0.22102436	0.300429424	1	0.856252495	0.014438599	0.063605222	1	0.733952881	-0.434899578	0.010241772	1	0.985032959
AC C14:1	0.106713488	0.57150273	1	0.93421204	0.014805365	0.029399066	1	0.665689318	-0.089078341	0.541615838	1	0.985032959
AC C16:0	0.536739357	0.013295006	1	0.348936129	0.013075602	0.097380848	1	0.753799896	0.151906164	0.362398006	1	0.985032959

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AC C18:1	0.392253373	0.093629941	1	0.564550669	0.016996533	0.046617849	1	0.733952881	0.139757898	0.43372395	1	0.985032959
AC C2:0	0.070152459	0.670454158	1	0.93421204	0.006910045	0.24685454	1	0.783684185	-0.053434925	0.665747575	1	0.985032959
AC C3:0	-0.168304829	0.367319063	1	0.928258176	0.014365597	0.033861568	1	0.665689318	-0.184997549	0.198682758	1	0.985032959
AC C8:1	0.379435169	0.188546808	1	0.756577609	0.027950889	0.007107727	1	0.623510952	0.005934024	0.978143776	1	0.985032959
H1	-0.4008046	0.418318023	1	0.93421204	-0.01155989	0.522694262	1	0.884256244	-0.362374405	0.351440125	1	0.985032959
LPCa C14:0	0.035837302	0.815419958	1	0.93421204	-0.005840143	0.293862586	1	0.783684185	-0.060717031	0.60505691	1	0.985032959
LPCa C16:0	-0.074908223	0.54294616	1	0.93421204	0.000892516	0.840888473	1	0.967603458	0.027570583	0.769032112	1	0.985032959
LPCa C16:1	-0.053797625	0.740134129	1	0.93421204	-0.005970147	0.300785573	1	0.783684185	0.107725507	0.371855482	1	0.985032959
LPCa C18:0	-0.095689599	0.509343399	1	0.93421204	-0.001469805	0.778204976	1	0.956734353	-0.047357861	0.667935911	1	0.985032959
LPCa C18:1	-0.247862632	0.091653977	1	0.564550669	0.000641748	0.903015686	1	0.971782693	0.111008119	0.309650922	1	0.985032959
LPCa C18:2	-0.026665697	0.874404716	1	0.93421204	-0.004100748	0.497823044	1	0.865713557	0.168325395	0.178664573	1	0.985032959
LPCa C18:3	0.428425021	0.112670027	1	0.619685147	-0.013353852	0.168628619	1	0.783684185	0.131069277	0.548391029	1	0.985032959
LPCa C20:3	-0.150539841	0.410480775	1	0.93421204	0.003137699	0.632677566	1	0.901068625	0.109962942	0.429237318	1	0.985032959
LPCa C20:4	-0.185647774	0.263334094	1	0.845683139	0.005109507	0.389993454	1	0.784196605	0.142703158	0.24613971	1	0.985032959
LPCa C22:6	-0.201810719	0.292074346	1	0.856252495	0.00247139	0.719017428	1	0.932945422	0.297225537	0.042020153	1	0.985032959
LPCe C16:0	-0.279658262	0.156053542	1	0.69394022	-0.008939277	0.206083275	1	0.783684185	-0.026297612	0.8593328	1	0.985032959
LPCe C18:0	-0.653978319	0.001044027	0.218201716	0.109100858	-0.017411422	0.014577027	1	0.623510952	-0.115248443	0.45147903	1	0.985032959
LPCe C18:1	-0.496181189	0.069159037	1	0.563380942	0.009400303	0.344540064	1	0.783684185	-0.036003247	0.859099745	1	0.985032959
PCa C28:2	0.089052045	0.757149714	1	0.93421204	-0.005396477	0.589445717	1	0.889881904	0.157727214	0.49748658	1	0.985032959
PCa C30:0	-0.079289616	0.665766046	1	0.93421204	-0.005932037	0.365799853	1	0.784196605	0.092767862	0.494059579	1	0.985032959
PCa C30:2	-0.226989737	0.188864452	1	0.756577609	0.007636664	0.231290758	1	0.783684185	-0.039890718	0.769843691	1	0.985032959
PCa C32:0	-0.02580666	0.870079449	1	0.93421204	0.005547731	0.327963973	1	0.783684185	0.097661136	0.415834912	1	0.985032959
PCa C32:1	-0.128020115	0.534451632	1	0.93421204	-0.002239458	0.761741823	1	0.956734353	0.030246587	0.845646685	1	0.985032959

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PCa C32:2	-0.03630581	0.828613218	1	0.93421204	0.001347574	0.821421882	1	0.964478502	-0.038496351	0.751293882	1	0.985032959
PCa C32:3	-0.036172115	0.83088057	1	0.93421204	0.003136225	0.608203926	1	0.889881904	0.061764743	0.645598246	1	0.985032959
PCa C34:1	-0.261171352	0.066125683	1	0.563380942	0.004099495	0.421168067	1	0.822655383	0.029898743	0.78036074	1	0.985032959
PCa C34:2	-0.049397422	0.752677971	1	0.93421204	-0.000540282	0.923931972	1	0.971782693	0.020705271	0.85636373	1	0.985032959
PCa C34:3	-0.040606791	0.808304025	1	0.93421204	-0.005537078	0.355704324	1	0.784196605	0.010691035	0.930657549	1	0.985032959
PCa C34:4	-0.187595268	0.316975834	1	0.871683544	-0.006419545	0.344414932	1	0.783684185	-0.008025104	0.9559027	1	0.985032959
PCa C34:5	-0.261762276	0.471636343	1	0.93421204	-0.004308753	0.740471315	1	0.949438679	0.155706529	0.565057215	1	0.985032959
PCa C36:1	-0.27092434	0.059023565	1	0.563380942	0.001272858	0.804342539	1	0.96151916	-0.072525469	0.491278162	1	0.985032959
PCa C36:2	-0.053271522	0.722237139	1	0.93421204	0.000963986	0.857933292	1	0.969232746	-0.014035837	0.895771315	1	0.985032959
PCa C36:3	-0.051878522	0.732996743	1	0.93421204	-0.001958485	0.719666758	1	0.932945422	0.013971817	0.900935176	1	0.985032959
PCa C36:4	-0.20318592	0.142488049	1	0.692558191	0.003934804	0.433719619	1	0.824067275	0.004131563	0.968329382	1	0.985032959
PCa C36:5	-0.098230949	0.583301716	1	0.93421204	-0.003045325	0.640511913	1	0.901068625	-0.195157309	0.145415402	1	0.985032959
PCa C36:6	-0.240386378	0.367092946	1	0.928258176	-0.011782441	0.21127288	1	0.783684185	-0.164889772	0.404932239	1	0.985032959
PCa C38:0	-0.23535832	0.200112321	1	0.774508799	0.001242547	0.851861417	1	0.967603458	0.011210836	0.935923303	1	0.985032959
PCa C38:2	-0.123525965	0.617946742	1	0.93421204	0.007756247	0.385568533	1	0.784196605	-0.089253797	0.640432562	1	0.985032959
PCa C38:3	-0.033260047	0.815721905	1	0.93421204	-0.000797656	0.877748795	1	0.971782693	-0.066812479	0.520574423	1	0.985032959
PCa C38:4	-0.12806105	0.344226815	1	0.910676005	0.006512814	0.185150446	1	0.783684185	-0.049361754	0.626857773	1	0.985032959
PCa C38:5	-0.235844816	0.077246215	1	0.563380942	0.001485177	0.75667832	1	0.956734353	-0.007371822	0.940439153	1	0.985032959
PCa C38:6	-0.216206677	0.162037956	1	0.705540269	0.003197283	0.561922096	1	0.889881904	-0.044678702	0.691932625	1	0.985032959
PCa C40:0	-0.261333741	0.300616607	1	0.856252495	-0.007523548	0.403842309	1	0.796255118	-0.131274469	0.459076032	1	0.985032959
PCa C40:4	-0.096194665	0.565508893	1	0.93421204	-0.000663132	0.913789126	1	0.971782693	0.004518507	0.971097998	1	0.985032959
PCa C40:5	-0.223842384	0.251826922	1	0.845683139	-0.005310652	0.453371092	1	0.853644669	0.003654194	0.980319882	1	0.985032959
PCa C40:6	-0.180692992	0.30317074	1	0.856252495	0.002372031	0.706336167	1	0.932945422	-0.104202769	0.421135741	1	0.985032959

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PCa C42:0	0.026106869	0.919059079	1	0.955638545	-0.001291565	0.88816037	1	0.971782693	0.144496881	0.395486428	1	0.985032959
PCa C42:1	-0.387054732	0.138857827	1	0.690982997	-0.002125397	0.820198778	1	0.964478502	-0.047515852	0.768342728	1	0.985032959
PCa C42:5	0.059043367	0.823828323	1	0.93421204	-0.002312241	0.798101028	1	0.96151916	0.126509286	0.51762049	1	0.985032959
PCa C43:6	-0.254623369	0.206932636	1	0.786344018	0.003559919	0.62580749	1	0.901068625	0.000928616	0.99506904	1	0.99506904
PCa C44:12	-0.36711287	0.072044012	1	0.563380942	-0.000242312	0.973805455	1	0.990609169	-0.008540268	0.957635831	1	0.985032959
PCe C32:0	-0.055821936	0.73170018	1	0.93421204	-0.006750393	0.247910305	1	0.783684185	0.104470774	0.390666242	1	0.985032959
PCe C32:1	-0.053818969	0.738445988	1	0.93421204	-0.00078935	0.891099961	1	0.971782693	-0.027357567	0.823079723	1	0.985032959
PCe C32:2	-0.295967997	0.153522842	1	0.69394022	-0.001476173	0.846156859	1	0.967603458	-0.078541206	0.627367854	1	0.985032959
PCe C34:0	-0.289745065	0.152690486	1	0.69394022	-0.000214963	0.976389899	1	0.990609169	-0.086602098	0.55916072	1	0.985032959
PCe C34:1	-0.271809128	0.078172475	1	0.563380942	-0.000631587	0.90867413	1	0.971782693	0.054659066	0.630458815	1	0.985032959
PCe C34:2	-0.074055209	0.622672162	1	0.93421204	-0.003733855	0.487093232	1	0.865713557	-0.0379832	0.730644805	1	0.985032959
PCe C34:3	-0.118717379	0.520121701	1	0.93421204	-0.007833886	0.234455673	1	0.783684185	-0.141031245	0.299900101	1	0.985032959
PCe C34:4	-0.051339162	0.880933293	1	0.93421204	0.013056623	0.288168622	1	0.783684185	-0.183978274	0.463159526	1	0.985032959
PCe C36:0	-0.004139975	0.985423665	1	0.990161279	0.007435894	0.361655594	1	0.784196605	-0.090120445	0.626496312	1	0.985032959
PCe C36:1	-0.407288143	0.02032797	1	0.384290165	-0.003245715	0.604033668	1	0.889881904	-0.095309544	0.473146537	1	0.985032959
PCe C36:2	-0.310337967	0.062461344	1	0.563380942	-0.002667049	0.653361519	1	0.901068625	-0.015269624	0.898575731	1	0.985032959
PCe C36:3	-0.033897676	0.832034796	1	0.93421204	-0.003032384	0.598649078	1	0.889881904	0.115446743	0.334924569	1	0.985032959
PCe C36:4	-0.144105635	0.32247712	1	0.875295039	-0.002725884	0.600871651	1	0.889881904	0.030478444	0.778172552	1	0.985032959
PCe C36:5	-0.171633255	0.275223002	1	0.856252495	-0.000268294	0.962154386	1	0.990592447	-0.016057009	0.89112582	1	0.985032959
PCe C36:6	0.3854583	0.555499868	1	0.93421204	0.029793797	0.209226935	1	0.783684185	-0.60139957	0.143438423	1	0.985032959
PCe C38:0	-0.106040256	0.598967424	1	0.93421204	-0.008689382	0.229522869	1	0.783684185	-0.178277563	0.230069085	1	0.985032959
PCe C38:2	-0.216535416	0.437566813	1	0.93421204	-0.01488681	0.133273924	1	0.783684185	-0.243232509	0.257915057	1	0.985032959
PCe C38:3	-0.088649927	0.668378906	1	0.93421204	-0.011763578	0.108957759	1	0.755341082	-0.217339282	0.148145585	1	0.985032959



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PCe C38:4	-0.316771087	0.022064507	1	0.384290165	-0.004878957	0.324629516	1	0.783684185	-0.064675743	0.528306677	1	0.985032959
PCe C38:5	-0.267340566	0.064807498	1	0.563380942	0.00049958	0.923632467	1	0.971782693	0.055784095	0.601419219	1	0.985032959
PCe C38:6	-0.101070768	0.519698728	1	0.93421204	-0.001506184	0.788644949	1	0.96151916	-0.012544507	0.916123582	1	0.985032959
PCe C40:0	-0.244840926	0.094541978	1	0.564550669	-0.002877343	0.583054396	1	0.889881904	-0.061068742	0.562738805	1	0.985032959
PCe C40:1	0.324686458	0.191859394	1	0.756577609	0.000713995	0.93570165	1	0.975717821	0.028162236	0.875085598	1	0.985032959
PCe C40:3	-0.184900061	0.551412935	1	0.93421204	-0.000848893	0.938369771	1	0.975717821	-0.305948248	0.140121233	1	0.985032959
PCe C40:4	0.040133976	0.817106989	1	0.93421204	-0.006571565	0.293427056	1	0.783684185	-0.13438141	0.304863849	1	0.985032959
PCe C40:5	-0.100519852	0.602133065	1	0.93421204	-0.007206168	0.295133434	1	0.783684185	-0.14126199	0.321913521	1	0.985032959
PCe C40:6	-0.38188256	0.020267017	1	0.384290165	-0.004059743	0.494361619	1	0.865713557	-0.141793768	0.248293177	1	0.985032959
PCe C42:1	0.057162892	0.854952664	1	0.93421204	-0.01479081	0.167784386	1	0.783684185	0.234227389	0.348616426	1	0.985032959
PCe C42:2	0.321417562	0.283749382	1	0.856252495	-0.004896946	0.644717048	1	0.901068625	0.023282076	0.917294224	1	0.985032959
PCe C42:3	-0.548607499	0.074089369	1	0.563380942	-0.011546626	0.295086346	1	0.783684185	0.118033707	0.557417461	1	0.985032959
PCe C42:4	-0.293357941	0.150529917	1	0.69394022	0.004301195	0.557439927	1	0.889881904	-0.13838547	0.335543565	1	0.985032959
PCe C42:5	0.000161694	0.999400558	1	0.999400558	-0.003357546	0.661577282	1	0.901068625	-0.051956531	0.736364799	1	0.985032959
PCe C42:6	-0.026185404	0.901730242	1	0.94704332	-0.004785079	0.524630499	1	0.884256244	0.118924438	0.46087566	1	0.985032959
SM C30:1	0.108918766	0.687674722	1	0.93421204	-0.005132132	0.603678787	1	0.889881904	0.202521367	0.340857176	1	0.985032959
SM C32:1	-0.048898177	0.734119581	1	0.93421204	-0.000781214	0.880468022	1	0.971782693	0.10333638	0.345301778	1	0.985032959
SM C32:2	0.203155403	0.262971444	1	0.845683139	-0.002712774	0.678835175	1	0.91533259	0.071571959	0.602646729	1	0.985032959
SM C33:1	-0.419680791	0.003453877	0.721860383	0.180465096	-0.005247769	0.310215801	1	0.783684185	0.058087949	0.588470621	1	0.985032959
SM C34:0	-0.158733484	0.245683764	1	0.845683139	-0.000826875	0.867973672	1	0.971782693	-0.036399242	0.735416245	1	0.985032959
SM C34:1	-0.070367427	0.554242437	1	0.93421204	-0.000137038	0.97450853	1	0.990609169	0.008423156	0.925818825	1	0.985032959
SM C34:2	0.034731684	0.806272394	1	0.93421204	0.001823808	0.723144299	1	0.932945422	0.045023162	0.678715527	1	0.985032959
SM C35:1	-0.286755574	0.054539843	1	0.563380942	-0.009206182	0.085708383	1	0.733952881	-0.015549686	0.890907473	1	0.985032959

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SM C36:0	-0.111011272	0.516300173	1	0.93421204	0.010570733	0.089044858	1	0.733952881	0.096382931	0.483665525	1	0.985032959
SM C36:1	-0.058069582	0.648362358	1	0.93421204	0.002334463	0.611258148	1	0.889881904	0.017103855	0.858816571	1	0.985032959
SM C36:2	-0.049051181	0.734376591	1	0.93421204	0.003800877	0.468693963	1	0.865713557	0.039454683	0.722237189	1	0.985032959
SM C36:3	0.031516089	0.878274801	1	0.93421204	0.008561702	0.260607823	1	0.783684185	-0.109080964	0.475333612	1	0.985032959
SM C38:1	-0.35186121	0.021974622	1	0.384290165	0.006407521	0.242289635	1	0.783684185	-0.033407642	0.769466721	1	0.985032959
SM C38:2	-0.042196606	0.772185901	1	0.93421204	-7.66E-06	0.998834924	1	0.999300732	0.047946274	0.65946724	1	0.985032959
SM C38:3	0.062738207	0.752000724	1	0.93421204	0.006305114	0.374681766	1	0.784196605	-0.02383897	0.869224024	1	0.985032959
SM C39:1	-0.12955454	0.461996197	1	0.93421204	-0.007506638	0.22994374	1	0.783684185	0.008056053	0.951583601	1	0.985032959
SM C40:1	-0.123399513	0.388335617	1	0.928258176	0.001252268	0.805099775	1	0.96151916	-0.016614151	0.881248336	1	0.985032959
SM C40:2	-0.065546598	0.656647338	1	0.93421204	0.00458925	0.390222234	1	0.784196605	0.050704351	0.652844616	1	0.985032959
SM C40:3	0.016031715	0.947589574	1	0.975597148	0.014894606	0.087951107	1	0.733952881	0.13193054	0.483251464	1	0.985032959
SM C40:4	-0.184909979	0.212634309	1	0.793581616	0.005599745	0.298089495	1	0.783684185	0.012410414	0.913907813	1	0.985032959
SM C40:5	0.108291538	0.609186062	1	0.93421204	-0.007543245	0.326961357	1	0.783684185	-0.128943987	0.40292432	1	0.985032959
SM C41:1	-0.101688547	0.540175657	1	0.93421204	-0.007089749	0.228704782	1	0.783684185	0.019438689	0.871469743	1	0.985032959
SM C41:2	-0.134188804	0.442130514	1	0.93421204	-0.007929823	0.203453888	1	0.783684185	-0.008416842	0.948301055	1	0.985032959
SM C42:1	0.025712056	0.846308885	1	0.93421204	0.00044948	0.925285914	1	0.971782693	0.044957361	0.647340513	1	0.985032959
SM C42:2	-0.026519419	0.843033849	1	0.93421204	0.001722682	0.718584926	1	0.932945422	0.10076083	0.306552158	1	0.985032959
SM C42:3	0.255792065	0.122772136	1	0.657465483	0.001129997	0.850589311	1	0.967603458	0.110617318	0.379197877	1	0.985032959
SM C42:4	-0.057027811	0.759281724	1	0.93421204	0.00315274	0.636679706	1	0.901068625	0.038643777	0.778054312	1	0.985032959
SM C42:5	0.307118902	0.307392822	1	0.85660133	-0.01069035	0.344971029	1	0.783684185	0.020645121	0.919190706	1	0.985032959
SM C42:6	-0.141908309	0.384497464	1	0.928258176	0.003033079	0.604620214	1	0.889881904	-0.004013925	0.974157658	1	0.985032959
SM C43:2	-0.283670929	0.129023692	1	0.657706136	-0.004684087	0.490705166	1	0.865713557	0.093961713	0.495471872	1	0.985032959
SM C44:6	-0.120603163	0.676497769	1	0.93421204	0.008153715	0.425597982	1	0.82361091	-0.047764291	0.82491842	1	0.985032959

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SM C21:2	0.112613051	0.774674044	1	0.93421204	-0.002351986	0.870352233	1	0.971782693	0.244369703	0.378107963	1	0.985032959
SM C31:1	0.224064515	0.573234985	1	0.93421204	-0.022433174	0.11974674	1	0.755341082	-0.19389939	0.41657898	1	0.985032959
SM C35:2	-0.007355225	0.972078996	1	0.981471063	0.003285608	0.658764236	1	0.901068625	0.20535105	0.217850657	1	0.985032959
SM C37:2	-0.180447307	0.483945737	1	0.93421204	0.004219747	0.648254786	1	0.901068625	-0.015583713	0.932014005	1	0.985032959
SM C37:3	0.012921065	0.960495832	1	0.979237214	0.001854068	0.842124246	1	0.967603458	-0.103511861	0.606407676	1	0.985032959
SM C39:4	-0.157873545	0.529413519	1	0.93421204	0.012096858	0.180309718	1	0.783684185	-0.27272816	0.106538385	1	0.985032959
SM C39:5	-0.149261307	0.4630473	1	0.93421204	-0.001489816	0.839425715	1	0.967603458	0.022700251	0.884864394	1	0.985032959
SM C41:5	-0.773038176	0.002126123	0.444359777	0.148119926	0.022477684	0.012555837	1	0.623510952	0.031798591	0.85438809	1	0.985032959
SM C43:0	-0.052422823	0.841445455	1	0.93421204	-0.002733593	0.767108501	1	0.956734353	-0.075964043	0.690753915	1	0.985032959

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**Supplemental table 5.** Linear regression models **without adjusting for birthweight**, which were performed to avoid over adjustment.

nam	n	BMI 2 years				BMI 15 years				
		beta	p	p_bonf	p_fdr	n	beta	p	p_bonf	p_fdr
AC C10:0	585	0.032060688	0.697745811	1	0.994294111	425	0.003311389	0.972189124	1	0.991158668
								-		
AC C10:1	567	-0.039859851	0.646080447	1	0.994294111	410	0.013755825	0.894201893	1	0.953511202
AC C12:0	601	0.034951491	0.636679639	1	0.994294111	422	0.073294115	0.396264711	1	0.923166264
AC C14:1	638	0.075501451	0.336438154	1	0.994294111	457	0.127091264	0.154010938	1	0.701475916
AC C16:0	643	-0.037561507	0.592324971	1	0.994294111	460	0.119985659	0.140166752	1	0.701475916
AC C18:1	611	0.06296121	0.324701182	1	0.994294111	432	0.140081781	0.06996474	1	0.701475916
AC C2:0	640	-0.004665185	0.958907333	1	0.994294111	459	0.030130596	0.782292733	1	0.953105341
AC C3:0	642	0.037996089	0.640508313	1	0.994294111	459	0.028416753	0.757126989	1	0.953105341
								-		
AC C8:1	642	-0.044791872	0.393647608	1	0.994294111	459	0.009970932	0.868116673	1	0.953105341
Ala	643	0.096620818	0.392087337	1	0.994294111	460	0.156099966	0.242778271	1	0.874838942
Arg	643	0.059555647	0.310492586	1	0.994294111	461	0.022823463	0.743560646	1	0.953105341
Asn	643	0.116133477	0.265605425	1	0.994294111	461	0.157947128	0.203350168	1	0.809600815
								-		
Asp	640	0.009787948	0.885569529	1	0.994294111	458	0.012987297	0.873213975	1	0.953105341

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C14:0	634	0.135818587	0.274056462	1	0.994294111	452	0.087766442	0.541656169	1	0.953105341
C15:1	636	0.091995579	0.193780471	1	0.994294111	453	0.108535391	0.182580035	1	0.772054724
C16:0	643	0.086176773	0.637836673	1	0.994294111	459	0.030114455	0.889260964	1	0.953105341
C16:1 n7	643	0.113613148	0.361488235	1	0.994294111	460	0.021942655	0.882716189	1	0.953105341
C17:0	633	0.039931787	0.730955215	1	0.994294111	451	0.054556453	0.700026323	1	0.953105341
C18:0	643	4.91876E-05	0.999782578	1	0.999782578	459	0.015139588	0.944375624	1	0.986872527
C18:1 n7	644	0.056053059	0.712862425	1	0.994294111	460	0.168222881	0.345993599	1	0.921550027
C18:1 n9	642	0.244497066	0.171854891	1	0.994294111	459	0.075415364	0.718897009	1	0.953105341
C18:2 n6	643	0.00492461	0.971317181	1	0.994294111	459	0.058970586	0.715833454	1	0.953105341
C18:3 n3	628	-0.024205885	0.707719224	1	0.994294111	448	0.04625399	0.542575352	1	0.953105341
C18:3 n6	633	0.076781206	0.446335944	1	0.994294111	451	0.026839641	0.821987549	1	0.953105341
C20:1 n9	606	0.030987782	0.698406239	1	0.994294111	433	0.001099489	0.990688083	1	0.995854424

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						-				
C20:2 n6	632	0.103076172	0.305841849	1	0.994294111	449	0.057611499	0.635454813	1	0.953105341
C20:3 n3	626	-0.006976009	0.940856072	1	0.994294111	444	0.181042433	0.114172702	1	0.701475916
										-
C20:3 n6	642	0.081794814	0.532124882	1	0.994294111	458	0.021787072	0.888467439	1	0.953105341
										-
C20:3 n9	644	0.140282943	0.028540309	1	0.994294111	460	0.074703246	0.30367522	1	0.921550027
C20:4 n6	642	-0.020127077	0.900869564	1	0.994294111	459	0.158819743	0.419807926	1	0.943439318
										-
C20:5 n3	639	0.006133697	0.930792987	1	0.994294111	456	0.054961665	0.509884946	1	0.953105341
										-
C22:4 n6	628	-0.019638133	0.871235303	1	0.994294111	446	0.042095348	0.771220045	1	0.953105341
										-
C22:5 n3	640	-0.022497452	0.754135139	1	0.994294111	456	0.047665907	0.573313853	1	0.953105341
										-
C22:5 n6	644	0.136294577	0.133526408	1	0.994294111	460	0.072194095	0.489947184	1	0.953105341
										-
C22:6 n3	644	0.006623161	0.954810179	1	0.994294111	460	0.111412806	0.419046816	1	0.943439318
Cit	636	-0.004480413	0.962235886	1	0.994294111	456	0.021515687	0.848795153	1	0.953105341
										-
Gln	628	-0.001199889	0.987052143	1	0.994294111	450	0.079449813	0.356235205	1	0.921550027

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Glu	583	0.061462639	0.59165742	1	0.994294111	418	0.141605222	0.315880651	1	0.921550027
Gly	644	-0.004524618	0.96868735	1	0.994294111	461	0.026179953	0.848414326	1	0.953105341
								-		
H1	627	-0.024587635	0.415965116	1	0.994294111	449	0.005245741	0.88407765	1	0.953105341
His	643	0.1152553	0.354775213	1	0.994294111	460	0.007408672	0.959578348	1	0.991158668
Ile	642	0.091782147	0.501046034	1	0.994294111	459	0.300257637	0.061429454	1	0.701475916
Leu	642	0.12095699	0.386133997	1	0.994294111	460	0.327880331	0.046823625	1	0.675685877
								-		
LPCa C14:0	641	0.085922003	0.381521005	1	0.994294111	458	0.001250274	0.991089571	1	0.995854424
LPCa C16:0	642	0.01481148	0.904644006	1	0.994294111	459	-0.04069348	0.774627207	1	0.953105341
								-		
LPCa C16:1	642	0.12436304	0.186410547	1	0.994294111	460	0.039656005	0.710492901	1	0.953105341
								-		
LPCa C18:0	643	-0.002317635	0.982252522	1	0.994294111	460	0.117773231	0.335980266	1	0.921550027
								-		
LPCa C18:1	644	0.094364385	0.362349612	1	0.994294111	461	0.025771001	0.828134549	1	0.953105341
								-		
LPCa C18:2	642	0.064083122	0.480987777	1	0.994294111	459	0.059806609	0.568747784	1	0.953105341
								-		
LPCa C18:3	535	0.094020761	0.154639149	1	0.994294111	381	0.022222166	0.7571311	1	0.953105341
LPCa C20:3	642	0.040855703	0.622702058	1	0.994294111	459	0.035309418	0.709419253	1	0.953105341

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LPCa C20:4	641	0.028483912	0.758030334	1	0.994294111	458	0.099823001	0.355175073	1	0.921550027
								-		
LPCa C22:6	581	-0.030740051	0.72577723	1	0.994294111	409	0.045097749	0.653240925	1	0.953105341
								-		
LPCe C16:0	612	0.177944645	0.023184299	1	0.994294111	434	0.045808374	0.623905178	1	0.953105341
								-		
LPCe C18:0	638	0.001271843	0.986704541	1	0.994294111	457	0.237358637	0.007231398	1	0.651107458
								-		
LPCe C18:1	362	0.189020352	0.047298942	1	0.994294111	251	0.045915151	0.683042547	1	0.953105341
Lys	534	0.088460612	0.569270647	1	0.994294111	381	0.166585032	0.35652516	1	0.921550027
Met	644	0.056317103	0.631089772	1	0.994294111	460	0.122161805	0.392219273	1	0.923166264
NEFA C12:0	642	0.010267663	0.834941013	1	0.994294111	460	0.028399451	0.598873672	1	0.953105341
NEFA C14:0	642	0.009453772	0.865522028	1	0.994294111	459	0.087022867	0.162628625	1	0.708112137
NEFA C14:1	644	0.030485086	0.515084738	1	0.994294111	460	0.085001546	0.10804294	1	0.701475916
NEFA C15:0	640	0.000845043	0.989536723	1	0.994294111	458	0.066720228	0.35950286	1	0.921550027
NEFA C15:1	563	-0.004001045	0.942810378	1	0.994294111	400	0.084713227	0.190066153	1	0.77889855
NEFA C16:0	642	-0.04381706	0.646262674	1	0.994294111	459	0.164049616	0.128517133	1	0.701475916
NEFA C16:1	644	0.010797851	0.843641239	1	0.994294111	461	0.115742793	0.060568182	1	0.701475916
NEFA C16:2	583	0.053741437	0.448205276	1	0.994294111	418	0.11731036	0.144035416	1	0.701475916
NEFA C16:3	515	0.02591242	0.756541277	1	0.994294111	367	0.05938214	0.548888711	1	0.953105341
NEFA C17:0	640	0.068048247	0.473114401	1	0.994294111	458	0.154161132	0.150220883	1	0.701475916



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NEFA C17:1	641	0.045120921	0.523423209	1	0.994294111	458	0.179425506	0.025394385	1	0.651107458
NEFA C18:0	639	0.005650225	0.959521528	1	0.994294111	458	0.060958974	0.634393956	1	0.953105341
NEFA C18:1	642	0.03659799	0.624289265	1	0.994294111	459	0.185596553	0.028644693	1	0.651107458
NEFA C18:2	642	0.012069126	0.866867272	1	0.994294111	459	0.116206109	0.154952037	1	0.701475916
NEFA C18:3	641	0.043161464	0.453339397	1	0.994294111	458	0.081704765	0.209179158	1	0.809600815
NEFA C18:4	574	0.013674164	0.811785657	1	0.994294111	413	0.037950417	0.55640912	1	0.953105341
NEFA C19:1	642	0.077983461	0.319960891	1	0.994294111	459	0.175907246	0.044983206	1	0.675685877
										-
NEFA C20:0	511	0.061376764	0.562310401	1	0.994294111	364	0.010300787	0.936009418	1	0.983045067
NEFA C20:1	642	0.016232165	0.856152856	1	0.994294111	459	0.217984079	0.033874226	1	0.651107458
NEFA C20:2	567	0.010829622	0.894903343	1	0.994294111	399	0.229575744	0.021155288	1	0.651107458
NEFA C20:3	613	-0.078270569	0.372836136	1	0.994294111	435	0.190758995	0.074026331	1	0.701475916
NEFA C20:4	642	-0.16827823	0.055562644	1	0.994294111	460	0.178457794	0.098863585	1	0.701475916
NEFA C20:5	585	-0.033025844	0.586273496	1	0.994294111	418	0.081111255	0.259745505	1	0.875593718
										-
NEFA C22:0	534	0.012725602	0.847340309	1	0.994294111	375	0.040519288	0.600824461	1	0.953105341
NEFA C22:1	571	0.161225813	0.041907221	1	0.994294111	402	0.182163043	0.051727148	1	0.675685877
NEFA C22:2	561	0.157848871	0.104797056	1	0.994294111	395	0.189411063	0.093846884	1	0.701475916
NEFA C22:3	499	0.023560904	0.822205183	1	0.994294111	355	0.203153416	0.103012808	1	0.701475916
NEFA C22:4	643	-0.177539123	0.06801196	1	0.994294111	460	0.231284689	0.048948984	1	0.675685877
NEFA C22:5	643	-0.047981803	0.577091502	1	0.994294111	460	0.185552312	0.069860313	1	0.701475916

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NEFA C22:6	642	-0.119113983	0.179927158	1	0.994294111	460	0.159932001	0.134939385	1	0.701475916
NEFA C24:1	614	0.145511646	0.211178333	1	0.994294111	435	0.361230912	0.007515562	1	0.651107458
NEFA C24:2	469	0.113686634	0.415981827	1	0.994294111	335	0.143209966	0.361565082	1	0.921550027
NEFA C24:3	484	0.105909443	0.388048423	1	0.994294111	355	0.234862658	0.086997028	1	0.701475916
NEFA C24:4	643	0.041072864	0.674290285	1	0.994294111	460	0.267896327	0.018907006	1	0.651107458
-										
NEFA C26:0	532	0.190238104	0.027210658	1	0.994294111	379	0.014272566	0.889129158	1	0.953105341
NEFA C26:3	557	0.046771689	0.690493228	1	0.994294111	394	0.126718143	0.341794874	1	0.921550027
NEFA C26:4	459	0.138528749	0.305230933	1	0.994294111	333	0.194169216	0.219943022	1	0.818679112
Orn	643	0.09091909	0.314558882	1	0.994294111	459	0.064330787	0.553411232	1	0.953105341
PCa C28:2	496	0.02907976	0.666191273	1	0.994294111	347	0.047915939	0.563216206	1	0.953105341
PCa C30:0	642	0.048358933	0.560395839	1	0.994294111	459	0.055617603	0.578187251	1	0.953105341
PCa C30:2	609	0.035536886	0.702453779	1	0.994294111	433	0.136582944	0.184702087	1	0.772054724
PCa C32:0	644	-0.072825527	0.444830162	1	0.994294111	461	0.094714495	0.401952775	1	0.923166264
-										
PCa C32:1	642	-0.038736658	0.602218525	1	0.994294111	460	0.003471641	0.967821744	1	0.991158668
PCa C32:2	638	0.061983123	0.505069233	1	0.994294111	457	0.056108774	0.613807267	1	0.953105341
PCa C32:3	632	-0.030894933	0.733992629	1	0.994294111	449	0.022540905	0.827580445	1	0.953105341
PCa C34:1	643	0.009181828	0.932105212	1	0.994294111	460	0.029355085	0.812940631	1	0.953105341
-										
PCa C34:2	641	-0.044319438	0.654045114	1	0.994294111	458	0.034714818	0.766037627	1	0.953105341

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PCa C34:3	643	-0.084927899	0.355823141	1	0.994294111	460	0.076473441	0.479777215	1	0.953105341
PCa C34:4	642	-0.054447994	0.496606363	1	0.994294111	459	0.079067185	0.393007659	1	0.923166264
PCa C34:5	437	-0.049543319	0.408142521	1	0.994294111	303	0.017217744	0.815227607	1	0.953105341
PCa C36:1	641	0.036796241	0.731718023	1	0.994294111	458	0.025372534	0.840595949	1	0.953105341
PCa C36:2	640	0.002661463	0.979539763	1	0.994294111	457	0.034420971	0.781608446	1	0.953105341
PCa C36:3	641	0.021457931	0.830443767	1	0.994294111	458	0.034748012	0.76573762	1	0.953105341
PCa C36:4	642	-0.072637012	0.505219324	1	0.994294111	459	0.029518992	0.818258265	1	0.953105341
PCa C36:5	643	-0.041806673	0.619373362	1	0.994294111	460	0.054199715	0.588735121	1	0.953105341
PCa C36:6	589	0.104758704	0.093867032	1	0.994294111	419	0.091501434	0.216292695	1	0.818679112
PCa C38:0	638	-0.033131746	0.691299371	1	0.994294111	456	0.157970324	0.104317247	1	0.701475916
PCa C38:2	540	0.019363731	0.784420732	1	0.994294111	376	0.042588118	0.608200523	1	0.953105341
PCa C38:3	641	0.002074601	0.98439171	1	0.994294111	458	0.023229418	0.854498384	1	0.953105341
PCa C38:4	642	-0.067607988	0.544083111	1	0.994294111	460	0.085153655	0.521554331	1	0.953105341
PCa C38:5	639	0.038859773	0.736304751	1	0.994294111	458	-	0.781863867	1	0.953105341

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							0.037838677				
							-				
PCa C38:6	640	-0.006566061	0.947253218	1	0.994294111	458	0.031736667	0.786616482	1	0.953105341	
PCa C40:0	506	-0.056835081	0.444287936	1	0.994294111	351	0.133850666	0.129312532	1	0.701475916	
PCa C40:4	616	-0.021641344	0.812586627	1	0.994294111	437		0.99974164	1	0.99974164	
PCa C40:5	643	0.054484813	0.480884753	1	0.994294111	460	0.026412489	0.769664772	1	0.953105341	
PCa C40:6	642	-0.004112059	0.961938529	1	0.994294111	460	0.038888976	0.702227074	1	0.953105341	
PCa C42:0	440	-0.096511583	0.258778221	1	0.994294111	308	0.041478507	0.677200271	1	0.953105341	
PCa C42:1	343	-0.056493255	0.599285614	1	0.994294111	237	0.199366749	0.121106873	1	0.701475916	
PCa C42:5	342	-0.103310364	0.331186889	1	0.994294111	239	0.315659487	0.009645399	1	0.651107458	
PCa C43:6	607	-0.071197207	0.361547298	1	0.994294111	430	0.028629174	0.755194842	1	0.953105341	
PCa C44:12	608	-0.133131613	0.085428064	1	0.994294111	432	0.060225743	0.500263329	1	0.953105341	

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PCe C32:0	644	0.055604264	0.553694505	1	0.994294111	461	0.031321696	0.77614384	1	0.953105341
PCe C32:1	644	-0.043875903	0.642616439	1	0.994294111	461	0.037739798	0.733782487	1	0.953105341
PCe C32:2	609	-0.013079273	0.864023092	1	0.994294111	434	0.016665827	0.849376929	1	0.953105341
PCe C34:0	644	-0.013724048	0.85614613	1	0.994294111	461	0.021781265	0.809189454	1	0.953105341
PCe C34:1	642	-0.027303026	0.785648654	1	0.994294111	459	0.016644718	0.887651561	1	0.953105341
PCe C34:2	642	-0.03936074	0.703141309	1	0.994294111	459	0.050639222	0.675622171	1	0.953105341
PCe C34:3	642	-0.136317333	0.099887448	1	0.994294111	459	0.101812831	0.301676272	1	0.921550027
PCe C34:4	541	0.070020266	0.194138805	1	0.994294111	387	0.134832711	0.023613836	1	0.651107458
PCe C36:0	522	0.011506068	0.886463295	1	0.994294111	363	0.024541131	0.801901416	1	0.953105341
PCe C36:1	642	0.022955264	0.790114038	1	0.994294111	459	0.064058732	0.527039436	1	0.953105341
PCe C36:2	641	0.02379315	0.797576686	1	0.994294111	458	-	0.336033515	1	0.921550027

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0.108326147

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PCe C36:3	640	0.024224555	0.799172737	1	0.994294111	458	0.135199878	0.223276121	1	0.818679112	
PCe C36:4	642	-0.093269967	0.379223485	1	0.994294111	459	-0.04256928	0.732781007	1	0.953105341	
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PCe C36:5	642	-0.115382544	0.237941508	1	0.994294111	459	0.054227078	0.640319846	1	0.953105341	
											-
PCe C36:6	366	-0.024913316	0.528742877	1	0.994294111	255	0.030346916	0.548540574	1	0.953105341	
											-
PCe C38:0	639	-0.072086587	0.349544331	1	0.994294111	458	0.015767425	0.86217769	1	0.953105341	
											-
PCe C38:2	632	0.0280139	0.615072905	1	0.994294111	452	0.067404191	0.29869206	1	0.921550027	
											-
PCe C38:3	634	0.015889449	0.832148442	1	0.994294111	453	0.062078029	0.491711158	1	0.953105341	
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PCe C38:4	641	-0.076830699	0.489211139	1	0.994294111	459	0.127218767	0.329967059	1	0.921550027	
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PCe C38:5	641	-0.058539052	0.581234731	1	0.994294111	458	0.098241253	0.433978723	1	0.953105341	
											-
PCe C38:6	642	-0.051475991	0.59717926	1	0.994294111	460	0.127439583	0.258313949	1	0.875593718	
PCe C40:0	640	-0.002966538	0.976947842	1	0.994294111	459	0.075570141	0.546951702	1	0.953105341	

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PCe C40:1	562	0.026140324	0.700734287	1	0.994294111	394	0.135920465	0.103335183	1	0.701475916
PCe C40:3	509	0.004379247	0.942279892	1	0.994294111	355	-0.12226383	0.102604401	1	0.701475916
PCe C40:4	636	-0.06441502	0.463810284	1	0.994294111	454	-0.08775597	0.390241156	1	0.923166264
							-			
PCe C40:5	637	-0.137219672	0.085578532	1	0.994294111	456	0.080875125	0.384694953	1	0.923166264
							-			
PCe C40:6	640	-0.036726042	0.690309745	1	0.994294111	459	0.170191961	0.113526483	1	0.701475916
PCe C42:1	364	-0.050198141	0.548705577	1	0.994294111	255	-0.21943445	0.034268814	1	0.651107458
PCe C42:2	516	-0.033532246	0.581597886	1	0.994294111	363	-0.03844441	0.613479678	1	0.953105341
PCe C42:3	438	-0.027573431	0.701287654	1	0.994294111	305	0.001666737	0.984102023	1	0.995854424
							-			
PCe C42:4	593	-0.137099147	0.08327058	1	0.994294111	418	0.152380083	0.11970047	1	0.701475916
							-			
PCe C42:5	566	-0.101847686	0.202698225	1	0.994294111	397	0.076964306	0.427835992	1	0.951252365
							-			
PCe C42:6	581	-0.082754017	0.310165618	1	0.994294111	415	0.019798811	0.831888354	1	0.953105341
Phe	644	0.213508708	0.140294888	1	0.994294111	461	0.17779971	0.320969948	1	0.921550027
Pro	644	0.140342887	0.28609183	1	0.994294111	461	0.086075304	0.586731631	1	0.953105341
Ser	642	0.048255459	0.650525369	1	0.994294111	460	0.109604156	0.384870326	1	0.923166264
SM C21:2	418	-0.036629327	0.530898634	1	0.994294111	287	0.058757677	0.399798328	1	0.923166264
SM C30:1	517	0.043823161	0.510908564	1	0.994294111	359	-0.03760557	0.640176323	1	0.953105341

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SM C31:1	357	0.008352441	0.902726688	1	0.994294111	249	0.013228708	0.874089546	1	0.953105341
SM C32:1	643	0.038997162	0.711507305	1	0.994294111	460	0.041049351	0.741833035	1	0.953105341
SM C32:2	642	0.135828291	0.110507784	1	0.994294111	460	0.154102821	0.116711961	1	0.701475916
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SM C33:1	642	0.046182051	0.660833737	1	0.994294111	459	0.087429482	0.492018968	1	0.953105341
SM C34:0	635	0.044918773	0.687223304	1	0.994294111	452	0.114777282	0.372291948	1	0.923166264
SM C34:1	642	-0.0425506	0.739190543	1	0.994294111	459	0.029805786	0.843406468	1	0.953105341
SM C34:2	644	0.005688351	0.957408286	1	0.994294111	461	0.12112015	0.327649944	1	0.921550027
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SM C35:1	642	0.058144232	0.571438599	1	0.994294111	459	0.034328889	0.778019093	1	0.953105341
SM C35:2	563	0.039548893	0.643497031	1	0.994294111	400	0.028366489	0.773963356	1	0.953105341
SM C36:0	443	0.166302771	0.183106043	1	0.994294111	315	0.207105124	0.143598154	1	0.701475916
SM C36:1	643	-0.041317847	0.731049689	1	0.994294111	460	0.019605268	0.888292889	1	0.953105341
SM C36:2	644	-0.039878669	0.703764446	1	0.994294111	461	0.080419136	0.508928182	1	0.953105341
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SM C36:3	594	0.021827863	0.77724244	1	0.994294111	421	0.042165361	0.638457399	1	0.953105341
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SM C37:2	387	-0.008000805	0.936815656	1	0.994294111	272	0.245509834	0.023522306	1	0.651107458
SM C37:3	613	-0.022421899	0.715761545	1	0.994294111	439	0.04700295	0.506837126	1	0.953105341
SM C38:1	538	0.05557435	0.638039823	1	0.994294111	381	0.040364178	0.766331763	1	0.953105341
SM C38:2	642	-0.0692693	0.515159693	1	0.994294111	459		- 0.648401924	1	0.953105341



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SM C38:3	631	0.061854487	0.438924868	1	0.994294111	448	0.089069989	0.34615441	1	0.921550027
										-
SM C39:1	639	-0.015655952	0.858020201	1	0.994294111	458	0.095906324	0.344231886	1	0.921550027
SM C39:4	456	0.055076677	0.514988132	1	0.994294111	318	-0.00849119	0.931301524	1	0.983040498
SM C39:5	602	0.05846366	0.451223258	1	0.994294111	424	0.039351935	0.661441842	1	0.953105341
SM C40:1	589	0.007652939	0.947662597	1	0.994294111	421	0.013860793	0.917257405	1	0.973130952
SM C40:2	643	-0.136612391	0.18582085	1	0.994294111	460	0.017272625	0.883372267	1	0.953105341
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SM C40:3	389	0.067730118	0.517982446	1	0.994294111	276	0.030651258	0.792481972	1	0.953105341
SM C40:4	633	-0.06203006	0.545815044	1	0.994294111	450	0.081485057	0.496691516	1	0.953105341
SM C40:5	579	-0.041670219	0.604777372	1	0.994294111	407	0.107818325	0.249689933	1	0.875593718
										-
SM C41:1	641	0.030028899	0.743500778	1	0.994294111	458	0.084054344	0.454171898	1	0.953105341
										-
SM C41:2	642	0.016599773	0.850461555	1	0.994294111	459	0.106356815	0.306695271	1	0.921550027
SM C41:5	493	-0.054028844	0.485561353	1	0.994294111	345	0.132845446	0.157748173	1	0.701475916
SM C42:1	643	0.047293909	0.677400802	1	0.994294111	460	0.050317946	0.705161581	1	0.953105341
SM C42:2	640	-0.008247991	0.942582471	1	0.994294111	457	0.056928007	0.667276243	1	0.953105341
SM C42:3	644	-0.012751105	0.888777414	1	0.994294111	461	0.146766605	0.15166799	1	0.701475916
SM C42:4	419	-0.005224403	0.967168704	1	0.994294111	298	0.064591448	0.650613824	1	0.953105341

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SM C42:5	384	0.008289462	0.920894969	1	0.994294111	265	0.003225348	0.971344881	1	0.991158668
								-		
SM C42:6	632	-0.033048222	0.728600553	1	0.994294111	450	0.077656206	0.485803544	1	0.953105341
								-		
SM C43:0	313	-0.055868595	0.625548303	1	0.994294111	212	0.290410161	0.038623428	1	0.672691379
								-		
SM C43:2	607	0.030462777	0.712070978	1	0.994294111	431	0.005311938	0.95817856	1	0.991158668
								-		
SM C44:6	388	-0.100308488	0.241095505	1	0.994294111	272	0.116516499	0.258992536	1	0.875593718
Thr	642	-0.021521953	0.860067881	1	0.994294111	460	0.132448746	0.353090548	1	0.921550027
Trp	639	0.247155363	0.102966203	1	0.994294111	457	0.261975085	0.143979374	1	0.701475916
Tyr	641	0.370859077	0.01095203	1	0.994294111	459	0.215044452	0.207670235	1	0.809600815
Val	640	0.202455049	0.22779758	1	0.994294111	459	0.329510142	0.093007899	1	0.701475916