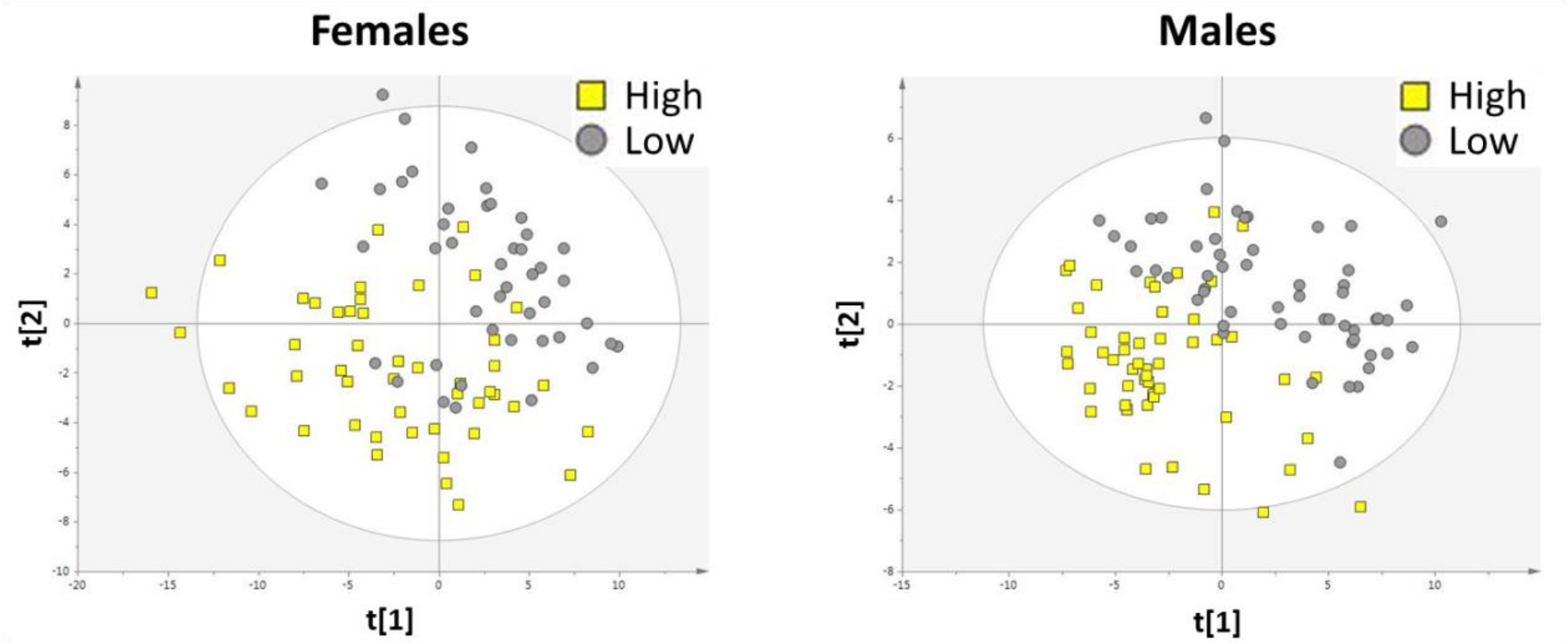
Metabolomics in early life and the association with body composition at age 2 years - Inge van Beijsterveldt, Stuart Snowden, Pernille Neve Myers, Kirsten de Fluiter, Bert van de Heijning, Susanne Brix, Ken Ong, David Dunger, Anita Hokken-Koelega, Albert Koulman - University of Cambridge, UK
Tel: +44 (0) 1223 763202, e-mail: ak675@medschl.cam.ac.uk / a.hokken@erasmusmc.nl

Supplement Figure 1. Partial least squares – discriminant analysis modeling of the relationship between metabolite profile and high and low truncal:peripheral fat ratio in males and females separately.



Female (R^2X = 0.197, R^2Y = 0.539, Q^2 = 0.117, CV-ANOVA = 0.038) Male (R^2X = 0.204, R^2Y = 0.595, Q^2 = 0.322, CV-ANOVA = $3.05x10^{-8}$)

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Supplement Table 1. Panel of 15 plasma metabolite variables at 3 months associated with truncal:peripheral fat ratio at 3 months

	All Individuals			Boys		Girls	
Metabolite variables	**p-value**	**Corrected p-value**	**Fold change**	**p-value**	**Fold change**	**p-value**	**Fold change**
LysoPS(22:2)	0.150	0.107	1.15	0.241	1.17	0.353	1.13
Unknown	0.074	0.058	1.25	0.114	1.31	0.310	1.21
Dimethylarginine	0.042	0.029	1.39	0.124	1.42	0.171	1.38
$C_{24}H_{30}O_8$	0.070	0.051	1.28	0.074	1.41	0.361	1.20
C^{13} isotope of $C_{30}H_{40}O_8$	0.026	0.014	1.20	0.009	1.33	0.542	1.07
$C_{27}H_{38}O_9$	0.051	0.038	1.18	0.118	1.20	0.180	1.18
Unknown	0.454	0.330	1.07	0.292	1.15	0.811	1.03
LysoPE(20:1)	0.147	0.061	1.04	0.269	1.04	0.279	1.05
Unknown	0.067	0.049	1.27	0.050	1.41	0.399	1.18
LysoPG(16:0)	0.034	0.041	1.12	0.041	1.15	0.270	1.10
$C_{30}H_{40}O_8$	0.013	0.009	1.53	0.013	1.80	0.237	1.34
LysoPA(22:1)	0.167	0.126	1.19	0.186	1.23	0.447	1.16
Unknown	0.465	0.318	0.98	0.390	0.97	0.643	0.98
Unknown	0.088	0.078	1.47	0.095	1.66	0.498	1.25
Unknown	0.097	0.164	1.08	0.272	1.06	0.327	1.08

'p-value' are the unadjusted p-values. 'Corrected p-values' have been adjusted for sex, birthweight and feeding type. All p-values were calculated using generalized linear models comparing high and low tertiles of trunk:peripheral ratio at 3 months of age. Fold change is calculated relative to the 'low' group. Putative annotations: $C_{24}H_{30}O_8$ – Esterone Glucoronide, $C_{27}H_{38}O_9$ –Hydroxyprogesterone Glucoronide, $C_{30}H_{40}O_8$ – Hydroxypentaoxolanostenoic acid. Abbreviations: LysoPA= lysophosphosphatidic acid, LysoPE= ysophosphatidylethanolamine, LysoPG=lysophosphatidylglycerol, LysoPS= lysophosphatidylserine

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