

Table A.1. Names and category of investigated metabolites, number of values below the detection limit and measurement accuracy.

	Full metabolite name	Category	# LOD	R ²
Alanine	Alanine	Amino acid	0	0.97
Arginine	Arginine	Amino acid	0	0.98
Aspartic acid/asparagine	Aspartic acid/asparagine	Amino acid	0	0.86
C10	Decanoyl carnitine	Acylcarnitine	92	0.9
C10:1	Decenoyl carnitine	Acylcarnitine	5	0.99
C10:2		Acylcarnitine	240	NA
C10:3	Decatrienoyl carnitine	Acylcarnitine	42	0.74
C10-OH/C8-DC	3-Hydroxy-decanoyl carnitine or Suberoyl carnitine	Acylcarnitine	44	0.91
C12	Lauroyl carnitine	Acylcarnitine	6	0.48
C12:1	Dodecenoyl carnitine	Acylcarnitine	4	0.91
C12-OH/C10-DC	3-Hydroxy-dodecanoyl carnitine or Sebacyl carnitine	Acylcarnitine	531	0.94
C14		Acylcarnitine	152	0.26
C14:1	Tetradecenoyl carnitine	Acylcarnitine	25	0.74
C14:1-OH/C12:1-DC	3-Hydroxy-tetradecenoyl carnitine	Acylcarnitine	72	0.74
C14:2	Tetradecadienoyl carnitine	Acylcarnitine	54	0.89
C14-OH/C12-DC	3-Hydroxy-tetradecanoyl carnitine or Dodecanedioyl carnitine	Acylcarnitine	70	0.68
C16	Palmitoyl carnitine	Acylcarnitine	0	0.36
C16:1	Palmitoleoyl carnitine	Acylcarnitine	13	0.95
C16:1-OH/C14:1-DC	3-Hydroxy-palmitoleoyl carnitine or cis-5-Tetradecenedioyl carnitine	Acylcarnitine	63	0.95
C16:2	Hexadecadienoyl carnitine	Acylcarnitine	142	NA
C16-OH/C14-DC	3-Hydroxy-hexadecanoyl carnitine or Tetradecanedioyl carnitine	Acylcarnitine	73	0.95
C18	Stearoyl carnitine	Acylcarnitine	117	0.53
C18:1	Oleoyl carnitine	Acylcarnitine	3	0.9
C18:1-OH/C16-DC	3-Hydroxy-octadecenoyl carnitine	Acylcarnitine	209	0.78
C18:2	Linoleoyl carnitine	Acylcarnitine	0	0.81
C18:2-OH	3-Hydroxy-linoleoyl carnitine	Acylcarnitine	477	NA
C18-OH/C16-DC	3-Hydroxy-octadecanoyl carnitine or Hexadecanedioyl carnitine, thapsoyl carnitine	Acylcarnitine	551	0.7
C2	Acetyl carnitine	Acylcarnitine	0	0.84
C20	Arachidoyl carnitine, eicosanoyl carnitine	Acylcarnitine	240	0.65
C20:1-OH/C18:1-DC	Octadecenedioyl carnitine	Acylcarnitine	176	NA
C20:4	Arachidonoyl carnitine	Acylcarnitine	313	0.8
C20-OH/C18-DC	3-Hydroxy-eicosanoyl carnitine or Octadecanedioyl carnitine	Acylcarnitine	183	0.39
C22	Behenoyl carnitine, docosanoyl carnitine	Acylcarnitine	449	0.84
C3	Propionyl carnitine	Acylcarnitine	5	0.75
C4:C14	Butyryl carnitine or Isobutyryl carnitine	Acylcarnitine	3	0.75
C4-OH	β -Hydroxy-butyryl carnitine	Acylcarnitine	33	0.4
C5	Isovaleryl carnitine, 3-methylbutyryl carnitine or 2-Methylbutyryl carnitine	Acylcarnitine	12	0.51
C5:1	Tiglyl carnitine	Acylcarnitine	4	0.46
C5-DC	Glutaryl carnitine	Acylcarnitine	29	0.6
C5-OH/C3-DC		Acylcarnitine	385	NA
C6:1-DC/C8:1-OH	3-Hydroxy-cis-5-octenoyl carnitine or Hexenedioyl carnitine	Acylcarnitine	68	NA
C6-DC	Adipoyl carnitine	Acylcarnitine	27	0.54
C8	Octanoyl carnitine	Acylcarnitine	6	0.96
C8:1	Octenoyl carnitine	Acylcarnitine	0	0.86
C8:1-DC	Octenedioyl carnitine	Acylcarnitine	26	NA
C14-DC/C4-DC	Methylmalonyl carnitine or Succinyl carnitine	Acylcarnitine	93	NA
Citrulline	Citrulline	Amino acid	0	0.57
Glutamine/glutamate	Glutamine/glutamate	Amino acid	0	0.55
Glycine	Glycine	Amino acid	0	0.85
Histidine	Histidine	Amino acid	0	0.33
Leucine/Isoleucine	Leucine/Isoleucine	Amino acid	0	0.95
Methionine	Methionine	Amino acid	0	0.95
Ornithine	Ornithine	Amino acid	0	0.86
Phenylalanine	Phenylalanine	Amino acid	0	0.95
Proline	Proline	Amino acid	0	0.68
Serine	Serine	Amino acid	0	0.79
Tyrosine	Tyrosine	Amino acid	0	0.94
Valine	Valine	Amino acid	0	0.84
β -hydroxybutyrate	β -hydroxybutyrate	Basic metabolite	1	0.9
Ketones	Ketones	Basic metabolite	1	0.91
non-esterified fatty acids	non-esterified fatty acids	Basic metabolite	0	NA

Table A.2. Spearman correlation coefficients between metabolites. Main metabolit within one cluster is marked in green. Additionally selected uncorrelated metabolites are marked in blue. Correlation coefficient >0.4 are marked in red.

		Cluster 1				Cluster 2					Cluster 3						Cluster 4		Cluster 5						
		ALA	LEUILE	PHE	TYR	ASX	ORN	GLY	MET	ARG	C8	C10	C8.1	C10-OH/C8-DC	C10.1	C12.1	C16-OH/C14-DC	KET	HBUT	C14.2	C16.1	C16:1-OH/C14:1-DC	C18.1		
	Zeros R ²	0	0	0	0	0	0	0	0	0	6	92	0	44	5	4	73	1	1	54	13	63	3		
		0.97	0.95	0.95	0.94	0.86	0.86	0.85	0.95	0.98	0.96	0.9	0.86	0.91	0.99	0.91	0.95	0.91	0.9	0.89	0.95	0.95	0.9		
Cluster 1	ALA	1	0.25	0.29	0.38	0.13	0.2	0.08	0.34	0.15	-0.03	-0.06	0.03	-0.08	0.01	-0.07	0	-0.51	-0.48	-0.15	-0.11	-0.06	-0.08		
	LEUILE		1	0.47	0.37	0.19	0.26	0.07	0.37	0.19	-0.03	-0.05	-0.01	-0.01	-0.02	-0.04	0.04	0.03	0	-0.05	-0.09	0.01	-0.04		
	PHE			1	0.65	0.12	0.19	-0.22	0.11	0.07	-0.01	-0.02	-0.05	-0.1	0.03	0.01	-0.12	-0.11	-0.11	0.02	0	-0.06	0.05		
	TYR				1	0.1	0.24	-0.16	0.23	0.13	-0.07	-0.08	-0.08	-0.16	-0.05	-0.06	-0.1	-0.21	-0.2	-0.05	-0.02	-0.07	0.01		
Cluster 2	ASX						1	0.09	0.1	0.22	0.08	-0.03	0.02	-0.06	-0.03	0.07	-0.07	0.09	-0.03	-0.03	-0.05	-0.02	0.03	0.05	
	ORN							1	0.32	0.32	0.09	0.12	0.12	0.14	0.14	0.16	0.16	0.08	-0.11	-0.11	0.1	0.09	0.07	0.26	
	GLY								1	0.51	0.2	0.12	0.08	0.11	0.27	0.11	0.11	0.16	-0.02	-0.03	0.04	0.01	0.08	0.08	
	MET									1	0.39	0.07	0.04	0.04	0.22	0.12	0.1	0.27	-0.1	-0.1	-0.01	0.01	0.11	0.02	
	ARG										1	-0.06	-0.07	-0.1	-0.06	-0.03	-0.07	-0.02	-0.12	-0.12	-0.1	-0.11	-0.03	-0.16	
Cluster 3	C8											1	0.81	0.43	0.57	0.74	0.7	0.29	0.23	0.24	0.59	0.46	0.33	0.37	
	C10												1	0.33	0.46	0.75	0.67	0.26	0.23	0.24	0.59	0.46	0.38	0.4	
	C8_1													1	0.42	0.51	0.47	0.18	0.11	0.1	0.37	0.15	0.1	0.15	
	C10-OH/C8-DC														1	0.42	0.67	0.41	0.31	0.31	0.53	0.38	0.35	0.33	
	C10.1															1	0.73	0.34	0.21	0.21	0.63	0.46	0.36	0.39	
	C12.1																1	0.43	0.39	0.39	0.75	0.66	0.47	0.5	
	C16-OH/C14-DC																		1	0.27	0.27	0.37	0.42	0.47	0.33
Cluster 4	KET																		1	0.99	0.53	0.53	0.39	0.39	
	HBUT																			1	0.54	0.55	0.4	0.41	
Cluster 5	C14.2																				1	0.75	0.52	0.61	
	C16.1																					1	0.61	0.73	
	C16:1-OH/C14:1-DC																						1	0.54	
	C18_1																							1	

ALA: Alanine, LEUILE: Leucine/Isoleucine, PHE: Phenylalanine, TYR: Tyrosine, ASX: Aspartic acid/asparagine, ORN: Ornithine, GLY: Glycine, MET: Methionine, ARG: Arginine, KET: Ketones, HBUT: β -hydroxybutyrate

Table A.3. Associations between air temperature and metabolite concentrations.

Cluster	Metabolite	Temp. range	Increment	Lag	Main Model*		trend with 4 df/year		rel.humidity with 5 df		+ barom. pressure		+ ozone		+ PM _{2.5}		+ comorbidity		w/o season		w/o part. characteristics		w/o temp. extremes		w/o outcome extremes	
					% change	95% CI	% change	95% CI	% change	95% CI	% change	95% CI	% change	95% CI	% change	95% CI	% change	95% CI	% change	95% CI	% change	95% CI	% change	95% CI	% change	95% CI
1	Alanine	<4°C	-5°C	Lag 0	1.67%	(-3.57,7.19%)	2.42%	(-2.90,8.03%)	1.71%	(-3.53,7.24%)	0.79%	(-4.44,6.31%)	1.60%	(-3.63,7.12%)	1.74%	(-3.50,7.27%)	1.52%	(-3.71,7.03%)	1.87%	(-3.22,7.22%)	1.07%	(-4.19,6.63%)	-4.69%	(-11.5,2.64%)	1.17%	(-7.16,3.00%)
		≥4°C	5°C	Lag 0	0.45%	(-1.06,1.98%)	0.36%	(-1.16,1.91%)	0.41%	(-1.10,1.94%)	0.93%	(-0.63,2.51%)	0.29%	(-1.24,1.84%)	0.28%	(-1.27,1.85%)	0.40%	(-1.11,1.93%)	0.47%	(-1.03,1.99%)	0.23%	(-1.27,1.74%)	0.17%	(-1.36,1.73%)	0.21%	(-1.21,1.64%)
		<4°C	-5°C	Lag 1	3.05%	(-2.37,8.76%)	3.76%	(-1.73,9.56%)	3.12%	(-2.30,8.84%)	2.73%	(-2.68,8.45%)	3.05%	(-2.37,8.76%)	3.00%	(-2.42,8.71%)	2.99%	(-2.42,8.71%)	3.19%	(-2.08,8.74%)	2.68%	(-2.74,8.41%)	-2.12%	(-8.99,5.27%)	2.65%	(-2.41,7.98%)
		≥4°C	5°C	Lag 1	0.03%	(-1.45,1.57%)	-0.06%	(-1.58,1.47%)	0.01%	(-1.49,1.54%)	0.33%	(-1.23,1.90%)	0.09%	(-1.44,1.64%)	0.20%	(-1.34,1.76%)	0.03%	(-1.47,1.55%)	0.00%	(-1.43,1.58%)	-0.01%	(-1.50,1.51%)	-0.27%	(-1.79,1.27%)	-0.13%	(-1.53,1.29%)
		<4°C	-5°C	Lag 2	2.32%	(-2.73,6.38%)	2.90%	(-2.2,8.29%)	2.38%	(-2.67,7.70%)	2.28%	(-2.81,7.64%)	2.29%	(-2.76,7.61%)	2.33%	(-2.72,7.64%)	2.26%	(-2.78,7.57%)	2.48%	(-2.41,7.62%)	1.75%	(-3.32,9.09%)	0.73%	(-5.85,7.76%)	2.38%	(-2.43,7.43%)
		≥4°C	5°C	Lag 2	-0.01%	(-1.50,1.49%)	-0.11%	(-1.60,1.41%)	-0.04%	(-1.53,1.47%)	0.01%	(-1.53,1.58%)	0.04%	(-1.47,1.57%)	0.16%	(-1.36,1.71%)	0.02%	(-1.47,1.53%)	0.00%	(-1.47,1.50%)	0.02%	(-1.47,1.50%)	-0.16%	(-1.65,1.36%)	0.16%	(-1.23,1.56%)
		<4°C	-5°C	Lag 3	3.01%	(-1.65,7.89%)	3.48%	(-1.25,8.44%)	3.03%	(-1.63,7.91%)	2.78%	(-1.93,7.71%)	3.04%	(-1.62,7.93%)	3.01%	(-1.65,7.89%)	2.86%	(-1.79,7.73%)	3.08%	(-1.41,7.79%)	2.96%	(-1.73,7.88%)	3.55%	(-2.67,10.17%)	2.84%	(-1.58,7.45%)
		≥4°C	5°C	Lag 3	0.89%	(-0.62,2.42%)	0.68%	(-0.84,2.23%)	0.87%	(-0.65,2.41%)	1.03%	(-0.55,2.64%)	0.81%	(-0.72,2.37%)	0.91%	(-0.62,2.47%)	0.89%	(-0.62,2.43%)	0.90%	(-0.61,2.43%)	0.64%	(-0.86,2.17%)	0.80%	(-0.73,2.36%)	0.82%	(-0.59,2.25%)
		<4°C	-5°C	Lag 4	6.63%	(1.80,11.68%)	7.09%	(2.19,12.21%)	6.63%	(1.80,11.68%)	5.91%	(1.07,10.99%)	6.76%	(1.93,11.82%)	6.55%	(1.73,11.60%)	6.45%	(1.63,11.50%)	6.53%	(1.85,11.43%)	5.47%	(0.68,10.48%)	6.61%	(0.58,13.01%)	5.73%	(1.16,10.51%)
		≥4°C	5°C	Lag 4	1.86%	(0.33,3.41%)	1.53%	(-0.01,3.09%)	1.84%	(0.32,3.40%)	2.26%	(0.67,3.87%)	1.58%	(0.03,3.15%)	1.70%	(0.14,3.28%)	1.85%	(0.33,3.40%)	1.86%	(0.33,3.40%)	1.45%	(-0.06,2.97%)	1.78%	(0.23,3.34%)	1.26%	(-0.16,2.70%)
		<4°C	-5°C	5-day avg	6.43%	(-0.16,13.45%)	7.21%	(0.5,14.37%)	6.47%	(-0.12,13.49%)	5.97%	(0.6,12.98%)	6.55%	(-0.05,13.58%)	6.44%	(-0.15,13.46%)	6.18%	(-0.38,13.18%)	6.43%	(0.05,13.21%)	5.85%	(-0.75,12.88%)	0.60%	(-7.42,9.32%)	0.85%	(-0.39,12.58%)
		≥4°C	5°C	5-day avg	1.22%	(-0.84,3.31%)	0.85%	(-1.23,2.98%)	1.16%	(-0.90,3.27%)	1.50%	(-0.58,3.62%)	0.99%	(-1.12,3.15%)	1.26%	(-0.88,3.44%)	1.20%	(-0.85,3.29%)	1.22%	(-0.83,3.31%)	0.94%	(-1.07,2.96%)	0.75%	(-1.32,2.86%)	0.89%	(-1.03,2.84%)
1	Leucine/Isoleucine	whole range	5°C	Lag 0	-0.05%	(-1.03,0.93%)	-0.10%	(-1.10,0.90%)	-0.07%	(-1.05,0.93%)	0.07%	(-0.95,1.11%)	-0.12%	(-1.11,0.88%)	-0.02%	(-1.03,1.00%)	-0.13%	(-1.09,0.85%)	-0.03%	(-1.01,0.95%)	-0.20%	(-1.23,0.83%)	0.04%	(-0.98,1.06%)	-0.23%	(-1.14,0.67%)
		whole range	5°C	Lag 1	0.51%	(-0.48,1.50%)	0.50%	(-0.50,1.51%)	0.50%	(-0.49,1.50%)	0.56%	(-0.47,1.60%)	0.38%	(-0.63,1.39%)	0.54%	(-0.47,1.57%)	0.52%	(-0.46,1.51%)	0.52%	(-0.46,1.51%)	0.47%	(-0.56,1.51%)	0.52%	(-0.49,1.55%)	0.25%	(-0.66,1.16%)
		whole range	5°C	Lag 2	0.51%	(-0.48,1.50%)	0.58%	(-0.42,1.59%)	0.50%	(-0.49,1.49%)	0.47%	(-0.57,1.51%)	0.38%	(-0.62,1.39%)	0.36%	(-0.65,1.37%)	0.57%	(-0.41,1.55%)	0.52%	(-0.46,1.51%)	0.52%	(-0.52,1.57%)	0.57%	(-0.45,1.59%)	0.49%	(-0.42,1.41%)
		whole range	5°C	Lag 3	0.34%	(-0.63,1.33%)	0.41%	(-0.58,1.41%)	0.34%	(-0.64,1.32%)	0.00%	(-1.03,1.05%)	0.19%	(-0.79,1.19%)	0.23%	(-0.76,1.23%)	0.35%	(-0.62,1.32%)	0.37%	(-0.60,1.35%)	0.14%	(-0.88,1.18%)	0.41%	(-0.61,1.43%)	0.44%	(-0.47,1.35%)
		whole range	5°C	Lag 4	0.19%	(-0.77,1.17%)	0.18%	(-0.80,1.17%)	0.19%	(-0.78,1.16%)	0.14%	(-0.88,1.17%)	0.19%	(-0.80,1.18%)	0.15%	(-0.83,1.14%)	0.10%	(-0.86,1.06%)	0.21%	(-0.75,1.18%)	-0.13%	(-1.14,0.89%)	0.41%	(-0.59,1.42%)	0.13%	(-0.76,1.03%)
		whole range	5°C	5-day avg	0.56%	(-0.78,1.93%)	0.60%	(-0.78,2.00%)	0.55%	(-0.80,1.92%)	0.50%	(-0.86,1.88%)	0.28%	(-1.11,1.69%)	0.42%	(-0.97,1.83%)	0.53%	(-0.81,1.88%)	0.59%	(-0.74,1.95%)	0.28%	(-1.11,1.69%)	0.61%	(-0.78,2.00%)	0.41%	(-0.84,1.66%)
	Aspartic acid/asparagine	whole range	5°C	Lag 0	-0.20%	(-1.27,0.89%)	-0.31%	(-1.40,0.79%)	-0.1%	(-1.19,0.99%)	0.02%	(-1.11,1.17%)	-0.42%	(-1.51,0.68%)	-0.35%	(-1.46,0.77%)	-0.22%	(-1.29,0.87%)	-0.25%	(-1.33,0.84%)	-0.27%	(-1.33,0.80%)	-0.36%	(-1.48,0.77%)	0.05%	(-0.88,0.98%)
		whole range	5°C	Lag 1	-0.47%	(-1.55,0.62%)	-0.62%	(-1.71,0.48%)	-0.39%	(-1.47,0.71%)	-0.23%	(-1.36,0.91%)	-0.59%	(-1.69,0.52%)	-0.38%	(-1.49,0.74%)	-0.48%	(-1.55,0.62%)	-0.41%	(-1.47,0.66%)	-0.60%	(-1.67,0.52%)	-0.41%	(-1.47,0.77%)	0.12%	(-0.81,1.06%)
		whole range	5°C	Lag 2	-1.35%	(-2.42,-0.28%)	-1.33%	(-2.4,-0.24%)	-1.29%	(-2.36,-0.21%)	-1.14%	(-2.26,0.01%)	-1.38%	(-2.47,-0.29%)	-1.26%	(-2.35,-0.16%)	-1.34%	(-2.4,-0.26%)	-1.36%	(-2.42,-0.28%)	-1.11%	(-2.17,-0.05%)	-1.44%	(-2.54,-0.34%)	-0.37%	(-1.30,0.57%)
		whole range	5°C	Lag 3	-0.77%	(-1.84,0.30%)	-0.70%	(-1.77,0.37%)	-0.64%	(-1.79,0.35%)	-0.64%	(-1.77,0.51%)	-0.85%	(-1.93,0.24%)	-0.69%	(-1.77,0.40%)	-0.77%	(-1.83,0.31%)	-0.68%	(-1.73,0.38%)	-0.62%	(-1.80,0.56%)	-0.41%	(-1.48,0.66%)	0.04%	(-0.88,0.97%)
		whole range	5°C	Lag 4	-0.78%	(-1.83,0.29%)	-0.79%	(-1.86,0.29%)	-0.75%	(-1.80,0.32%)	-0.58%	(-1.70,0.55%)	-0.91%	(-1.99,0.17%)	-0.78%	(-1.86,0.31%)	-0.79%	(-1.85,0.28%)	-0.66%	(-1.72,0.41%)	-0.86%	(-1.90,0.18%)	-0.92%	(-2.02,0.19%)	-0.43%	(-1.34,0.49%)
		whole range	5°C	5-day avg	-1.35%	(-2.80,0.13%)	-1.44%	(-2.93,0.06%)	-1.24%	(-2.30,0.82%)	-1.09%	(-2.57,0.41%)	-1.29%	(-2.32,-0.2%)	-1.29%	(-2.30,0.25%)	-1.35%	(-2.40,0.12%)	-1.30%	(-2.36,0.17%)	-1.21%	(-2.62,0.21%)	-1.43%	(-2.93,0.10%)	-0.22%	(-1.49,1.06%)
2	Ornithine	whole range	5°C	Lag 0	0.57%	(-0.66,1.82%)	0.53%	(-0.72,1.79%)	0.52%	(-0.71,1.78%)	0.61%	(-0.69,1.92%)	0.33%	(-0.92,1.6%)	0.36%	(-0.91,1.64%)	0.51%	(-0.71,1.76%)	0.54%	(-0.69,1.79%)	0.85%	(-0.40,2.12%)	0.77%	(-0.50,2.07%)	0.29%	(-0.87,1.47%)
		whole range	5°C	Lag 1	0.24%	(-1.00,1.49%)	0.15%	(-1.10,1.41%)	0.19%	(-1.05,1.44%)	0.43%	(-0.86,1.73%)	-0.04%	(-1.29,1.23%)	-0.03%	(-1.29,1.23%)	0.24%	(-0.99,1.48%)	0.54%	(-0.71,1.81%)	0.37%	(-0.91,1.66%)	0.52%	(-0.71,1.81%)	0.23%	(-0.91,1.66%)
		whole range	5°C	Lag 2	0.88%	(-0.36,2.13%)	0.78%	(-0.47,2.05%)	0.84%	(-0.40,2.10%)	0.76%	(-0.54,2.08%)	0.55%	(-0.70,1.82%)	0.67%	(-0.59,1.95%)	0.93%	(-0.31,2.18%)	0.81%	(-0.43,2.06%)	1.12%	(-0.14,2.40%)	0.68%	(-0.60,1.97%)	0.78%	(-0.39,1.96%)
		whole range	5°C	Lag 3	0.60%	(-0.63,1.84%)	0.53%	(-0.71,1.79%)	0.53%	(-0.65,1.81%)	0.40%	(-0.90,1.72%)	0.31%	(-0.93,1.57%)	0.31%	(-0.93,1.57%)	0.61%	(-0.61,1.85%)	0.59%	(-0.63,1.82%)	0.41%	(-0.85,1.69%)	0.79%	(-0.46,2.05%)	0.42%	(-0.74,1.59%)
		whole range	5°C	Lag 4	-0.79%	(-1.99,0.43%)	-0.87%	(-2.09,0.36%)	-0.81%	(-2.01,0.41%)	-0.88%	(-2.14,0.40%)	-1.15%	(-2.37,0.08%)	-1.18%	(-2.39,0.05%)	-0.86%	(-2.06,0.35%)	-0.81%	(-2.01,0.40%)	-0.34%	(-1.56,0.89%)	-0.88%	(-2.12,0.37%)	-0.73%	(-1.86,0.42%)
		whole range	5°C	5-day avg	0.55%	(-1.23,2.27%)	0.42%	(-1.20,2.12%)	0.49%	(-1.21,2.21%)	0.51%	(-1.20,2.25%)	-0.32%	(-1.25,0.43%)	-0.24%	(-1.19,1.52%)	0.24%	(-1.15,2.23%)	0.46%	(-1.21,2.17%)	1.07%	(-0.62,2.78%)	0.56%	(-1.17,2.33%)	0.35%	(-1.24,1.97%)
	Glycine	whole range	5°C	Lag 0	0.32%	(-0.77,1.43%)	0.20%	(-0.91,1.31%)	0.38%	(-0.72,1.49%)	0.54%	(-0.60,1.70%)	0.24%	(-0.87,1.36%)	0.44%	(-0.68,1.58%)	0.34%	(-0.75,1.45%)	0.24%	(-0.84,1.35%)	0.15%	(-0.91,1.23%)	0.41%	(-0.72,1.55%)	0.28%	(-0.74,1.31%)
		whole range	5°C	Lag 1	0.77%	(-0.33,1.88%)	0.67%	(-0.44,1.88%)	0.82%	(-0.28,1.94%)	0.72%	(-0.42,1.88%)	0.91%	(-0.21,2.04%)	1.27%	(0.14,2.42%)	0.75%	(0.35,1.86%)	0.68%	(-0.42,1.79%)	0.73%	(-0.35,1.81%)	0.82%	(-0.21,1.97%)	0.61%	(-0.42,1.65%)
		whole range	5°C	Lag 2	1.47%	(0.36,2.58%)	1.34%	(0.23,2.47%)	1.51%	(0.41,2.63%)	1.50%	(0.34,2.67%)	1.54%	(0.41,2.67%)	1.75%	(0.62,2.89%)	1.44%	(0.34,2.56%)	1.39%	(0.29,2.50%)	1.38%	(0.30,2.48%)	1.35%	(0.21,2.50%)	1.21%	(0.19,2.25%)
		whole range	5°C	Lag 3	1.34%	(0.24,2.44%)	1.20%	(0.10,2.32%)	1.21%	(0.12,2.33%)	1.61%	(0.45,2.80%)	1.22%	(0.11,2.34%)	1.34%	(0.22,2.42%)	1.34%	(0.24,2.44%)	1.39%	(0.27,2.42%)	1.41%	(0.28,2.55%)	1.41%	(0.27,2.55%)	0.99%	(-0.03,2.02%)
		whole range	5°C	Lag 4	0.82%	(-0.27,1.91%)	0.75%	(-0.35,1.86%)	0.84%	(-0.25,1.93%)	0.88%	(-0.26,2.04%)	0.49%	(-0.61,1.60%)	0.65%	(-0.45,1.76%)	0.85%	(-0.24,1.94%)	0.84%	(-0.24,1.93%)	0.86%	(-0.1				

Figure A.1. Modifications of the temperature effects on aspartic acid/asparagine, glycine and C16-OH:C14:1-DC by different participant characteristics.

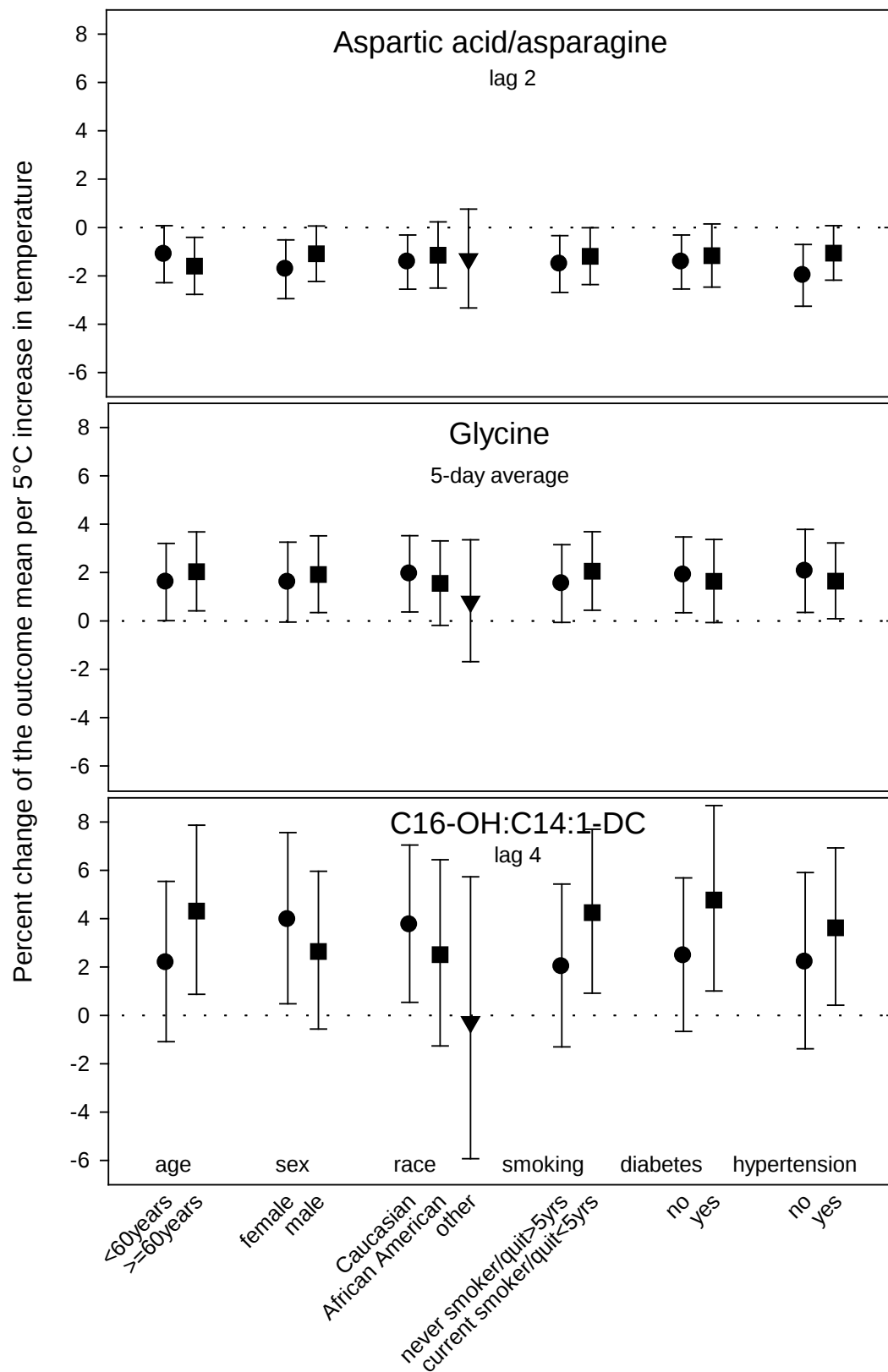


Figure A.2. Temperature effects on ketone bodies in different subgroups.

