

CORRECTION

Correction: Pea Fiber and Wheat Bran Fiber Show Distinct Metabolic Profiles in Rats as Investigated by a ^1H NMR-Based Metabolomic Approach

The PLOS ONE Staff

There are errors in the Author Contributions. The correct contributions are: Conceived and designed the experiments: GL LX TF YC GJ HZ JW XC CW. Performed the experiments: GL LX TF JW. Analyzed the data: GL LX TF. Contributed reagents/materials/analysis tools: GL. Wrote the paper: GL.

Additionally, there is an error in the legends for [Fig. 1](#) and [Fig. 2](#). “Table 1” should say “[Table 5](#).” Please view the complete, correct [Fig. 1](#) and [Fig. 2](#) legends below.

Further, there is an error in the footnotes for [Table 5](#). VLDL stands for “very low density lipoprotein,” not “low density lipoprotein.” Please view the complete, correct [Table 5](#) footnotes below.



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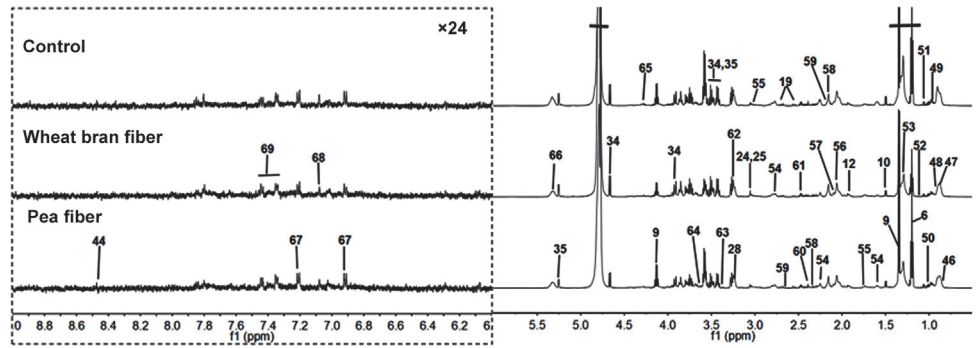


Fig 1. Representative one-dimensional ^1H NMR spectra urine metabolites obtained from the (A) control, (B) pea fiber, and (C) wheat bran fiber groups. The region of $\delta 6.2$ – 9.5 was magnified 16 times compared with corresponding region of $\delta 0.5$ – 6.2 for the purpose of clarity. Metabolite keys are given in [Table 5](#).

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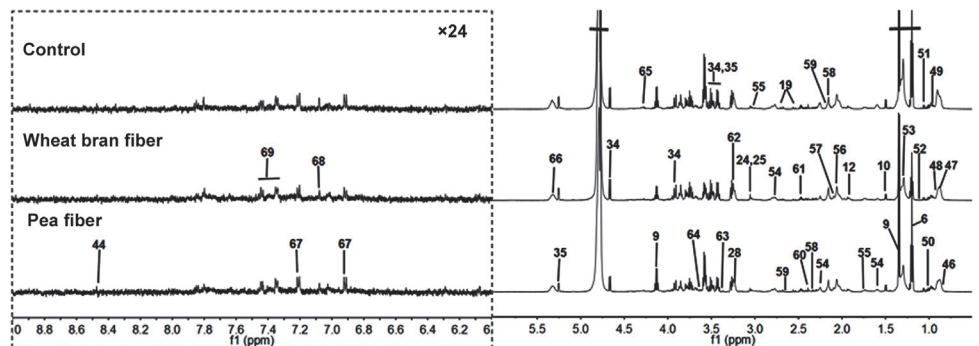


Fig 2. Typical 600 MHz ^1H NMR spectra of plasma metabolites obtained from the (A) control, (B) pea fiber, and (C) wheat bran fiber groups. The region of $\delta 6.0$ – 9.0 was magnified 24 times compared with corresponding region of $\delta 0.5$ – 6.0 for the purpose of clarity. Metabolite keys are given in [Table 5](#).

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Table 5. ¹H NMR data for metabolites in rat urine and plasma.

keys	Metabolites	moieties	δ ¹ H (ppm) and multiplicity	samples ^a
1	bile acids	CH ₃	0.62(m), 0.75(m)	U
2	Butyrate	CH ₃	0.9(t)	U
3	α-hydroxybutyrate	CH ₃	0.94(t)	U
4	α-hydroxy-iso-valerate	δCH ₃	0.97(d)	U
5	isobutyrate	CH ₃	1.14(d)	U, P
6	Ethanol	CH ₃ , CH ₂	1.19(t), 3.66(q)	U, P
7	methylmalonate	CH ₃ , CH	1.26(d), 3.76(m)	U
8	α-hydroxy-n-valerate	CH ₃ , γCH ₂	0.89(t), 1.31(m)	U
9	lactate	αCH, βCH ₃	4.13(q), 1.33(d)	U, P
10	alanine	αCH, βCH ₃	3.77(q), 1.48(d)	U, P
11	citrulline	γCH ₂ , βCH ₂	1.56(m), 1.82(m)	U
12	acetate	CH ₃	1.92(s)	U, P
13	acetamide	CH ₃	1.99(s)	U
14	N-acetylglutamate	βCH ₂ , γCH ₂ , CH ₃	2.07(m), 1.88(m), 2.04(s)	U
15	acetone	CH ₃	2.25(s)	U, P
16	acetoacetate	CH ₃	2.3(s)	U
17	succinate	CH ₂	2.41(s)	U
18	α-ketoglutarate	βCH ₂ , γCH ₂	2.45(t), 3.01(t)	U
19	citrate	CH ₂	2.55(d), 2.68(d)	U, P
20	methylamine	CH ₃	2.62(s)	U
21	dimethylamine	CH ₃	2.73(s)	U
22	trimethylamine	CH ₃	2.88(s)	U
23	dimethylglycine	CH ₃	2.93(s)	U
24	creatine	CH ₃ , CH ₂	3.04(s), 3.93(s)	U, P
25	creatinine	CH ₃ , CH ₂	3.04(s), 4.05(s)	U, P
26	ethanolamine	CH ₂	3.13(t)	U
27	malonate	CH ₂	3.16(s)	U
28	choline	OCH ₂ , NCH ₂ , N(CH ₃) ₃	4.07(t), 3.53(t), 3.20(s)	U, P
29	taurine	-CH ₂ -S, -CH ₂ -NH ₂	3.26(t), 3.43(t)	U
30	glycine	CH ₂	3.57(s)	U
31	phenylacetylglycine	2,6-CH, 3,5-CH, 7-CH, 10-CH	7.31(t), 7.37(m), 7.42(m), 3.68(s)	U
32	hippurate	CH ₂ , 3,5-CH, 4-CH, 2,6-CH	3.97(d), 7.57(t), 7.65(t), 7.84(d)	U
33	N-methylnicotinamide	CH ₃ , 5-CH, 4-CH, 6-CH, CH ₂	4.44(s), 8.18(d), 8.89(d), 8.96(d), 9.26(s)	U
34	β-glucose	1-CH, 2-CH, 3-CH, 4-CH, 5-CH, 6-CH	4.65(d), 3.25(dd), 3.49(t), 3.41(dd), 3.46(m), 3.73(dd), 3.90(dd)	U, P
35	α-glucose	1-CH, 2-CH, 3-CH, 4-CH, 5-CH, 6-CH	5.24(d), 3.54(dd), 3.71(dd), 3.42(dd), 3.84(m), 3.78(m)	U, P
36	allantoin	CH	5.40(s)	U, P
37	urea	NH ₂	5.82(s)	U
38	homogentisate	6-CH, 5-CH	6.7(d), 6.76(d),	U
39	p-hydroxyphenylacetate	6-CH, 2-CH, 3,5-CH	3.6(s), 6.87(d), 7.15(d)	U
40	m-hydroxyphenylacetate	6-CH, 4-CH, 3-CH	6.92(m), 7.04(d), 7.26(t)	U
41	nicotinate	2,6-CH, 4-CH, 5-CH	8.62(d), 8.25(d), 7.5(dd)	U
42	4-aminohippurate	CH ₂	7.71(d)	U
43	trigonelline	2-CH, 4-CH, 6-CH, 5-CH, CH ₃	9.12(s), 8.85(m), 8.83(dd), 8.19(m), 4.44(s)	U
44	formate	CH	8.46(s)	U
45	unknown		8.54(s)	U

(Continued)

Table 5. (Continued)

keys	Metabolites	moieties	δ ^1H (ppm) and multiplicity	samples ^a
46	HDL*	$\text{CH}_3(\text{CH}_2)_n$	0.84(m)	P
47	LDL*	$\text{CH}_3(\text{CH}_2)_n$	0.87(m)	P
48	VLDL*	$\text{CH}_3\text{CH}_2\text{CH}_2\text{C} =$	0.89(t)	P
49	isoleucine	αCH , βCH , βCH_3 , γCH_2 , δCH_3	3.68(d), 1.99(m), 1.01(d), 1.26(m), 1.47(m), 0.94(t)	P
50	leucine	αCH , βCH_2 , γCH , δCH_3	3.73(t), 1.72(m), 1.72(m), 0.96(d), 0.97(d)	P
51	valine	αCH , βCH , γCH_3	3.62(d), 2.28(m), 0.99(d), 1.04(d)	P
52	propionate	CH_3 , CH_2	1.08(t), 2.18(q)	P
53	3-hydroxybutyrate	αCH_2 , βCH , γCH_3	2.28(dd), 2.42(dd), 4.16(m), 1.20(d)	P
54	lipids (triglycerids and fatty acids)	$(\text{CH}_2)_n$, $\text{CH}_2\text{CH}_2\text{CO}$, $\text{CH}_2\text{C} = \text{C}$, $\text{CH}_2\text{CO C} = \text{C}$, $\text{CCH}_2\text{C} = \text{C}$	1.28(m) 1.58(m), 2.01(m), 2.24(m), 2.76(m)	P
55	lysine	αCH , βCH_2 , γCH_2 , ϵCH_2	3.76(t), 1.91(m), 1.48(m), 1.72(m), 3.01(t)	P
56	N-acetyl glycoprotein	CH_3	2.04(s)	P
57	O-acetyl glycoprotein	CH_3	2.08(s)	P
58	glutamate	αCH , βCH_2 , γCH_2	3.75(m), 2.12(m), 2.35(m)	P
59	methionine	αCH , βCH_2 , γCH_2 , S- CH_3	3.87(t), 2.16(m), 2.65(t), 2.14(s)	P
60	pyruvate	CH_3	2.37(s)	P
61	glutamine	αCH , βCH_2 , γCH_2	3.78(m), 2.14(m), 2.45(m)	P
62	glycerolphosphocholine	CH_3 , βCH_2 , αCH_2	3.22(s), 3.69(t), 4.33(t)	P
63	phosphorylcholine	$\text{N}(\text{CH}_3)_3$, OCH_2 , NCH_2	3.22(s), 4.21(t), 3.61(t)	P
64	myo-inositol	1,3-CH, 2-CH, 5-CH, 4,6-CH	3.60(dd), 4.06(t), 3.30(t), 3.63(t)	P
65	threonine	αCH , βCH , γCH_3	3.58(d), 4.24(m), 1.32(d)	P
66	unsaturated lipids	$=\text{CH}-\text{CH}_2\text{C} =$, $-\text{CH} = \text{CH}-$	5.19 (m), 5.30(m)	P
67	tyrosine	2,6-CH, 3,5-CH	7.20(dd), 6.91(d)	P
68	1-methylhistidine	4-CH, 2-CH	7.05(s), 7.78(s)	P
69	phenylalanine	2,6-CH, 3,5-CH, 4-CH	7.32(m), 7.42(m), 7.37(m)	P
70	3-methylhistidine	4-CH, 2-CH	7.07(s), 7.67(s)	P

^a U, urine; P, plasma

* HDL, high density lipoprotein; LDL, low density lipoprotein; VLDL, very low density lipoprotein; s, singlet; d, doublet; t, triplet; q, quartet; dd, doublet of doublets; m, multiplet

doi:10.1371/journal.pone.0119117.t001

Reference

1. Liu G, Xiao L, Fang T, Cai Y, Jia G, Zhao H, et al. (2014) Pea Fiber and Wheat Bran Fiber Show Distinct Metabolic Profiles in Rats as Investigated by a ^1H NMR-Based Metabolomic Approach. PLoS ONE 9(12): e115561. doi:10.1371/journal.pone.0115561 PMID: 25541729