

SUPPLEMENTARY INFORMATION (ESI)

Altered tissue distribution of flaxseed lignans and their metabolites in Abcg2 knockout mice

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ESI Table 1. Enterolignan metabolites in liver, kidney and testis from wild-type and *Abcg2*^{-/-} male mice fed with a lignan-enriched diet for 7 days (*n* = 4-5)^a

		<i>wild-type</i>	<i>Abcg2</i> ^{-/-}
Liver	ENL glucuronide	2.33 ± 1.65	2.93 ± 4.89
	END glucuronide	8.83 ± 5.75	3.47 ± 3.77
	SECO glucuronide	5.01 ± 3.63	5.44 ± 3.79
Kidney	ENL glucuronide	2.35 ± 3.47	19.88 ± 21.45
	END glucuronide	48.56 ± 14.70	52.69 ± 30.13
	SECO glucuronide	0	0
	ENL sulfate	2.35 ± 2.96	56.20 ± 50.59 ^b
	END sulfate	11.72 ± 6.44	19.84 ± 14.25
	SECO sulfate	0	0
Testis	ENL glucuronide	0	0.69 ± 0.98
	END glucuronide	2.50 ± 1.72	6.76 ± 6.68
	SECO glucuronide	0.35 ± 0.23	2.04 ± 2.31 ^b

^aResults are expressed as peak areas

^b*p* < 0.05 versus wild-type (Mann–Whitney U test)

ESI Table 2. Determination of enterolignan metabolites in small intestinal content from wild-type and *Abcg2*^{-/-} male mice (n = 4-5) fed with a lignan-enriched diet for 7 days (n = 4-5)^a

	<i>wild-type</i>	<i>Abcg2</i> ^{-/-}
ENL glucuronide	8815.98 ± 5268.17	1212.83 ± 1387.64 ^b
END glucuronide	11397.3 ± 5270.67	3650.53 ± 4219.01
SECO glucuronide	1934.36 ± 1177.86	1309.03 ± 1607.02
ENL sulfate	1093.82 ± 2445.86	1796.25 ± 2685.91
END sulfate	53.38 ± 31.53	56.73 ± 102.41
SECO sulfate	10.34 ± 5.09	12.73 ± 10.42

^aResults are expressed as peak areas

^b*p* < 0.05 versus wild-type (Mann–Whitney U test)