

1 **Table S3.**

2 **Experimental protocols of studies on plant sterols/stanols according to sterol transporter polymorphisms**

Reference	Protocol	Subjects	Polymorphisms
Plat et al. (2005) ^{S1}	Parallel, 8 weeks, 3 groups: controls, 3.8±0.6 g/d stanols from vegetable oil, 4.0±1.8 g/d stanols from wood	Normocholesterolemic (n=112)	<i>ABCG5</i> 1810C/G (Q604E); <i>ABCG8</i> 1895C/T (A632V) and 1199C/A (T400K)
Gylling et al. (2009) ^{S2}	Parallel, 1 year, 3 groups: controls, plant stanols (2.13 g/d), plant sterols (2.15 g/d)	Moderate hypercholesterolemic (n=282)	<i>ABCG5</i> Q604E; <i>ABCG8</i> A632V, T400K, Y54K and D19H
Zhao et al. (2008) ^{S3}	Crossover, 2 x 4 weeks, with 4 weeks washout between plant sterols (2 g/d) vs. control diet	Hypercholesterolemic (n=82)	<i>ABCG5</i> Q604E; <i>ABCG8</i> T400K and D19H; 872C/G (L272L) and <i>NPC1L1</i> 3929 G/A (Y1291Y)
MacKay et al. (2015) ^{S4}	Crossover, 2 x 4 weeks, 25g margarine with 2 g/d plant sterols or without	Mildly hypercholesterolemic (n=63) either with high endogenous cholesterol synthesis (n=24) or low endogenous cholesterol synthesis (n=39)	<i>ABCG8</i> T400K

3 **Abbreviations:** ABCG5/G8, ATP-binding cassette subfamily G member 5/8

- S1. Plat J, Bragt MCE, Mensink RP. Common sequence variations in ABCG8 are related to plant sterol metabolism in healthy volunteers. *J Lipid Res.* 2005;46:68-75.
- S2. Gylling H, Hallikainen M, Raitakari OT, et al. Long-term consumption of plant stanol and sterol esters, vascular function and genetic regulation. *Br J Nutr.* 2009;101:1688-1695.
- S3. Zhao HL, Houweling AH, Vanstone CA, et al. Genetic variation in ABC G5/G8 and NPC1L1 impact cholesterol response to plant sterols in hypercholesterolemic men. *Lipids.* 2008;43:1155-1164.
- S4. MacKay DS, Eck PK, Gebauer SK, Baer DJ, Jones PJ. CYP7A1-rs3808607 and APOE isoform associate with LDL cholesterol lowering after plant sterol consumption in a randomized clinical trial. *Am J Clin Nutr.* 2015;102:951-957.