

**Table S2.** Effect of sex on TMAO, TMA precursors and TMA-producing bacteria. Diet and age were determined as important explanatory variables as well and p-values adjusted for either of these parameters (p.adj.diet; p.adj.age) are given as well.

	<b>Estimate</b>	<b>p.val</b>	<b>p.adj.diet</b>	<b>p.adj.age</b>
<i>cutC</i>	-0.276	<b>0.002</b>	<b>0.018</b>	<b>0.002</b>
<i>cntA</i>	-0.456	<b>0.015</b>	0.127	0.014
<i>grdH</i>	0.046	0.684	0.598	0.686
<b>Choline</b>	0.202	<b>0.000</b>	<b>0.002</b>	<b>0.000</b>
<b>Betaine</b>	0.349	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
<b>Carnitine</b>	0.200	<b>0.000</b>	<b>0.000</b>	<b>0.000</b>
<b>TMAO</b>	0.036	0.600	0.457	0.561