

**Table S1:** Changes in *trans* isomeric fatty acids in five different plant-based oils in fresh samples and after one (1H), five (5H) and ten heating sequences (10H).

	Palm oil		Soybean oil		Rapeseed oil		Sunflower oil		EV Olive oil	
	mean	SD	mean	SD	mean	SD	mean	SD	mean	SD
<b>C18:1n-7/9t</b>										
Fresh	<b>0.075</b>	0.003	<b>0.036</b>	0.002	<b>0.026</b>	0.009	<b>0.030</b>	0.003	<b>0.046</b>	0.022
1H	<b>0.099</b>	0.004	<b>0.084</b>	0.055	<b>0.066</b>	0.004	<b>0.038</b>	0.005	<b>0.069</b>	0.011
5H	<b>0.111</b>	0.003	<b>0.086</b>	0.025	<b>0.080</b>	0.010	<b>0.057</b>	0.003	<b>0.068</b>	0.002
10H	<b>0.136</b>	0.011	<b>0.091</b>	0.037	<b>0.102</b>	0.003	<b>0.070</b>	0.002	<b>0.103</b>	0.015
<b>C18:2n-6tt</b>										
Fresh	<b>0.006</b>	0.000	<b>0.005</b>	0.001	<b>n.d.</b>	-	<b>0.004</b>	0.000	<b>n.d.</b>	-
1H	<b>0.005</b>	0.002	<b>0.004</b>	0.002	<b>n.d.</b>	-	<b>0.003</b>	0.001	<b>n.d.</b>	-
5H	<b>0.006</b>	0.001	<b>0.008</b>	0.001	<b>n.d.</b>	-	<b>0.007</b>	0.001	<b>n.d.</b>	-
10H	<b>0.007</b>	0.001	<b>0.011</b>	0.003	<b>0.002</b>	0.001	<b>0.011</b>	0.001	<b>0.002</b>	0.001
<b>C20:1n-9t</b>										
Fresh	<b>0.024</b>	0.002	<b>0.050</b>	0.002	<b>0.023</b>	0.011	<b>0.018</b>	0.002	<b>0.010</b>	0.009
1H	<b>0.029</b>	0.004	<b>0.072</b>	0.029	<b>0.032</b>	0.006	<b>0.028</b>	0.003	<b>0.026</b>	0.011
5H	<b>0.043</b>	0.006	<b>0.073</b>	0.006	<b>0.053</b>	0.008	<b>0.041</b>	0.005	<b>0.065</b>	0.001
10H	<b>0.069</b>	0.008	<b>0.061</b>	0.005	<b>0.055</b>	0.027	<b>0.051</b>	0.012	<b>0.061</b>	0.006

Each data is calculated from six different chromatograms, data are **mean** (SD); n.d. denotes under detection limit