

Table S1. Biscuits volatile aroma compounds

β -myrcene	0.79 ± 0.02 ^a	n.d.	1.39 ± 0.03 ^b	n.d.	3.78 ± 0.05 ^c	Herbaceous, woody, spice, balsamic
D-limonene	0.69 ± 0.03 ^b	2.99 ± 0.04 ^d	2.55 ± 0.02 ^c	0.30 ± 0.01 ^a	0.20 ± 0.02 ^a	Citrus, fresh, sweet
Total	1.48 ± 0.05^b	2.99 ± 0.04^c	3.94 ± 0.05^d	0.30 ± 0.01^a	3.96 ± 0.07^d	
Acids						
Benzoic acid	15.03 ± 0.22 ^e	0.30 ± 0.02 ^a	1.64 ± 0.03 ^b	3.20 ± 0.04 ^c	3.67 ± 0.03 ^d	Fade balsamic
Total	15.03 ± 0.22^e	0.30 ± 0.02^a	1.64 ± 0.03^b	3.20 ± 0.04^c	3.67 ± 0.03^d	
Others						
Ethyl 2,4-dioxohexanoate	2.10 ± 0.05 ^a	4.50 ± 0.03	4.05 ± 0.06 ^b	4.23 ± 0.07 ^b	2.25 ± 0.05 ^a	Apple peel, fruit
Dimethyl disulfide	1.96 ± 0.07	n.d.	n.d.	n.d.	n.d.	Vegetal, sulfurous, cabbage, malt
Total	4.06 ± 0.12^b	4.50 ± 0.03^b	4.05 ± 0.06^b	4.23 ± 0.07^b	2.25 ± 0.05^a	

Table S2. Used reagents list

Used reagent	Determination	Company, city, country)
Methanol	Fatty acids	Sigma Aldrich (Steinheim, Germany)
Chloroform	Fatty acids	Sigma Aldrich (Steinheim, Germany)
Potassium chloride	Fatty acids	Sigma Aldrich (Steinheim, Germany)
Sodium sulphate	Fatty acids	Sigma Aldrich (Steinheim, Germany)
Trichloroacetic acid	Amino-acids	Sigma Aldrich (Steinheim, Germany)
15N-glycine 99 atom %	Amino-acids	Sigma Aldrich (Steinheim, Germany)