

**Supplementary Material**

**Causes of variation in food preference in the Netherlands**

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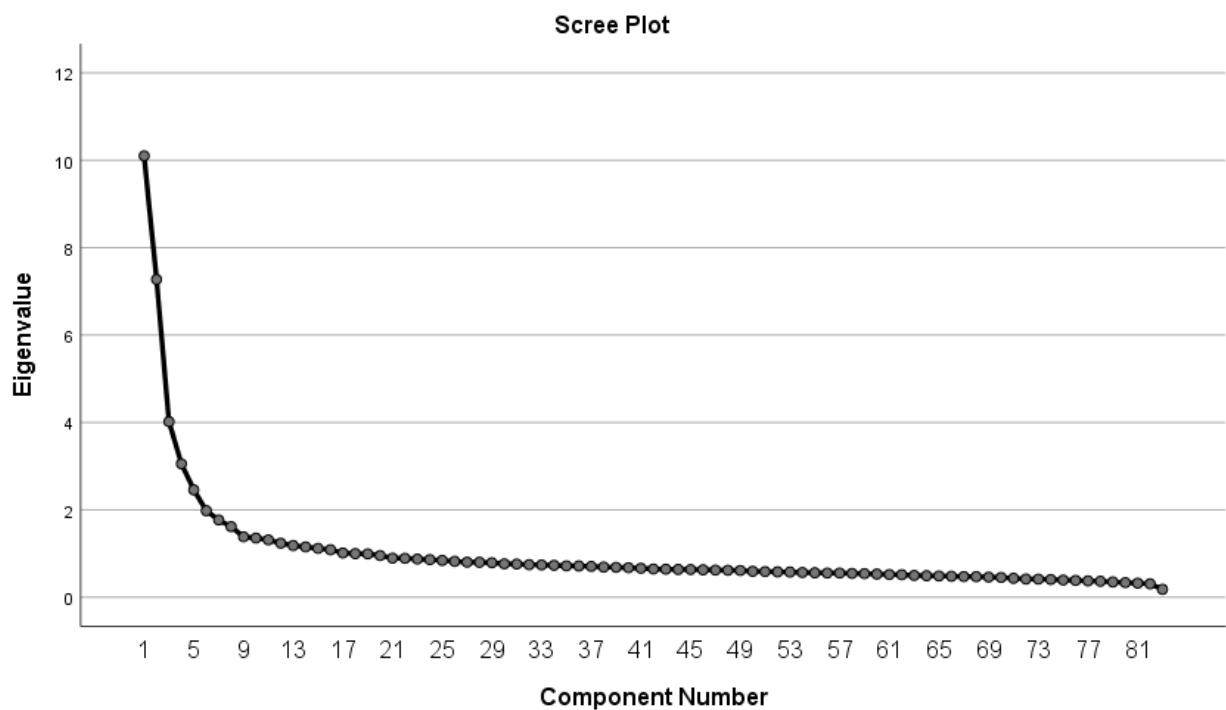
*Supplementary Table S1. Principal component analysis: mean liking-disliking scores after imputation, factor loadings per cluster and presentation of excluded items. Factor loading above 0.4 indicates that that item is included in that cluster (shown in bold).*

Included items	Preference score after imputation (N=15,954)		Clusters								
	Mean	SD	1	2	3	4	5	6	7	8	9
Broccoli	6.98	2.04	-0.075	0.090	0.056	-0.040	0.109	0.042	0.036	<b>0.712</b>	0.074
Tortilla chips or crisp	6.37	2.31	0.099	-0.020	<b>0.670</b>	0.111	0.048	0.042	0.064	0.007	-0.016
Crispy bacon	5.73	2.51	<b>0.672</b>	-0.055	0.248	0.043	-0.032	0.079	0.126	-0.027	0.044
Beer	4.64	3.32	0.227	-0.060	0.182	-0.048	0.131	0.159	<b>0.629</b>	0.013	-0.009
Prawns & shellfish	5.68	3.33	0.153	0.064	0.016	-0.089	0.048	0.147	0.156	0.004	<b>0.720</b>
Butter or margarine	5.74	2.11	0.166	-0.050	0.149	0.211	-0.049	-0.044	0.053	0.066	0.026
Chips	6.87	1.95	0.184	0.003	<b>0.711</b>	0.173	-0.044	-0.050	-0.035	-0.077	-0.037
Wholemeal- bread	7.90	1.74	-0.020	0.142	0.057	0.030	0.038	-0.034	0.053	0.137	0.006
Skimmed milk	4.62	2.89	0.056	0.007	0.004	0.031	0.073	-0.013	0.033	-0.013	0.010
Fresh tomatoes	7.33	2.31	-0.087	0.397	-0.004	-0.074	0.054	0.068	0.118	0.206	0.171
Cooling off on a hot day	7.96	1.72	0.059	0.211	0.338	0.005	0.158	0.098	-0.011	-0.012	0.001
Pizza	6.92	2.07	0.119	0.052	<b>0.628</b>	0.235	0.049	0.098	0.056	-0.010	0.013
Plain yoghurt	6.68	2.18	-0.042	0.193	-0.043	0.060	0.098	0.051	0.063	0.114	0.021
Fried chicken	5.10	2.62	<b>0.532</b>	-0.032	0.381	0.138	-0.001	0.027	-0.072	-0.111	0.157
Burn of spicy	3.58	2.65	0.122	-0.032	0.021	-0.012	0.040	<b>0.717</b>	0.140	-0.060	0.022
Black coffee	5.00	3.57	0.106	0.008	-0.004	-0.080	-0.001	0.199	<b>0.573</b>	0.015	-0.031
Bagel or rolls	7.18	1.81	0.184	0.070	0.374	0.343	0.004	-0.026	0.023	-0.097	-0.004
Sausage	5.33	2.39	<b>0.683</b>	-0.064	0.275	0.144	0.004	0.045	0.071	0.024	-0.020
Taking the stairs	7.61	1.70	-0.070	0.147	0.007	-0.060	<b>0.479</b>	0.034	-0.010	0.178	0.018
Fizzy soft drinks/sweet drinks	4.81	2.68	0.221	-0.030	0.377	0.302	0.015	-0.055	-0.087	-0.095	-0.134
Salty pretzels	4.63	2.41	0.176	-0.001	0.394	0.190	-0.019	0.014	0.119	-0.011	-0.034
Pasta or noodles	7.29	1.73	0.078	0.068	0.331	0.206	0.066	0.123	0.031	0.118	0.030
Mayonnaise	5.73	2.23	0.164	-0.037	<b>0.544</b>	0.140	0.018	0.048	0.020	-0.067	0.069
Chili pepper	4.00	2.71	0.073	0.012	0.054	0.016	0.096	<b>0.792</b>	0.190	-0.001	0.072
Whole milk	3.78	2.85	0.223	0.004	0.076	0.194	0.023	0.092	0.091	0.007	0.044
Baked chicken	6.45	2.43	<b>0.668</b>	0.077	0.073	0.048	0.025	0.057	-0.056	-0.003	0.208
Olives	5.46	3.41	-0.086	0.106	-0.014	-0.033	0.034	0.301	0.345	0.167	0.392
Dark chocolate	6.20	2.90	-0.033	0.064	-0.010	0.316	0.057	0.202	0.179	0.188	0.116
Garlic	6.71	2.32	0.007	0.111	0.128	-0.043	0.044	<b>0.550</b>	0.052	0.136	0.213
Ketchup	5.33	2.30	0.098	0.025	0.293	0.230	0.076	0.159	0.040	0.024	0.044
Ice cream	6.60	2.25	0.165	0.136	0.268	<b>0.578</b>	0.022	-0.032	-0.035	-0.057	-0.045
Grapefruit	5.08	2.80	0.025	0.308	0.052	0.020	0.101	0.187	0.154	0.072	0.040
Exercising alone	6.17	2.59	-0.038	0.065	-0.023	0.014	<b>0.717</b>	0.104	0.050	0.025	0.062
White rice	6.21	2.03	0.107	0.050	0.084	0.189	0.132	0.190	-0.002	0.074	0.044
Smell of freshly cut grass	7.57	2.11	0.004	0.297	-0.050	-0.043	0.101	0.102	0.081	0.070	0.027
Salad dressing	6.13	2.02	0.078	0.124	0.068	0.131	0.046	0.045	0.037	0.004	0.147
Fried fish	5.59	2.58	0.311	0.038	0.287	0.151	-0.015	0.017	-0.029	-0.021	<b>0.528</b>
Banana	7.20	2.04	0.039	<b>0.505</b>	0.157	0.097	0.103	0.044	0.023	0.097	-0.011

Continuation Table S1.	Preference score after imputation (N=15,954)		Clusters								
Included items	Mean	SD	1	2	3	4	5	6	7	8	9
Pork chops	5.45	2.64	<b>0.765</b>	0.032	0.002	0.084	-0.022	-0.021	0.059	0.006	0.015
Lentils or beans	5.58	2.38	-0.026	0.128	-0.077	0.110	0.051	0.290	0.137	<b>0.452</b>	0.086
Red wine	5.32	3.19	0.041	0.087	-0.041	0.011	0.058	0.166	<b>0.706</b>	0.093	0.192
Pear	7.20	1.90	0.013	<b>0.660</b>	0.017	0.089	0.082	0.011	0.082	0.120	0.013
Cake icing	3.85	2.55	0.167	0.027	0.239	<b>0.597</b>	0.001	0.021	-0.010	-0.047	-0.053
White potato	6.60	<b>1.84</b>	0.178	0.050	0.112	0.118	0.009	-0.054	-0.007	0.391	-0.170
Melon [yellow or green]	7.44	2.06	0.001	<b>0.620</b>	0.037	0.000	0.051	-0.016	0.030	0.095	0.075
Sautéed mushrooms	7.16	2.47	0.073	0.249	-0.048	0.053	-0.012	0.062	0.128	0.174	0.324
Playing sports	6.99	2.41	0.016	0.067	0.054	0.027	<b>0.885</b>	0.026	0.037	0.015	0.033
Extra virgin olive oil	6.92	<b>1.96</b>	-0.066	0.150	-0.011	-0.038	0.179	0.364	0.042	0.259	0.256
Asparagus	6.75	<b>2.64</b>	0.016	0.198	-0.113	0.032	0.038	0.095	0.224	0.360	0.357
Exercising with others	6.58	2.60	0.038	0.053	0.096	0.078	<b>0.742</b>	-0.018	0.034	0.000	0.016
Raw carrots	6.52	2.29	-0.055	0.374	0.013	-0.117	0.177	0.026	0.037	0.336	0.061
Going to the pub or bar	5.52	<b>2.82</b>	0.076	-0.018	0.250	0.066	0.270	0.095	<b>0.413</b>	-0.008	0.000
Jam or jelly	5.52	<b>2.23</b>	0.100	0.175	-0.016	<b>0.568</b>	0.058	-0.048	0.095	0.028	-0.037
Bicycling	7.59	1.91	-0.035	0.116	-0.091	0.097	<b>0.451</b>	-0.025	0.081	0.149	0.045
White wine	5.80	2.92	0.006	0.099	0.027	0.050	0.056	0.041	<b>0.603</b>	0.027	0.195
Watching television	6.83	<b>1.84</b>	0.111	0.016	0.254	0.120	-0.038	-0.032	-0.009	-0.001	-0.039
Lemon	5.52	2.25	0.012	0.268	0.101	-0.013	0.117	0.395	0.085	0.136	0.031
Cherries	7.06	<b>2.32</b>	-0.001	<b>0.594</b>	-0.071	0.119	-0.007	0.056	0.050	0.062	0.180
Vinegar	4.74	<b>2.19</b>	0.037	0.150	-0.043	0.023	0.046	0.349	0.116	0.185	0.116
Coffee or tea with sugar	3.10	<b>3.29</b>	0.139	-0.065	0.046	0.157	-0.057	-0.052	-0.092	0.005	0.008
Beetroot	6.13	<b>2.54</b>	-0.013	0.188	-0.135	0.053	0.009	0.060	0.041	<b>0.461</b>	0.029
Working up a sweat	6.67	2.26	0.055	0.069	0.010	0.003	<b>0.738</b>	0.101	0.037	0.052	-0.016
Tuna or salmon	7.14	2.78	0.109	0.167	-0.069	-0.034	0.066	0.075	0.064	0.113	<b>0.755</b>
Biscuits, cakes or pastries	6.77	2.17	0.096	0.088	0.272	<b>0.738</b>	0.016	-0.061	-0.107	-0.004	-0.026
Ham	6.16	2.20	<b>0.742</b>	0.017	-0.002	0.156	-0.007	-0.041	0.058	-0.010	0.019
High-fibre bar	5.48	2.36	0.069	0.147	0.053	<b>0.414</b>	0.133	0.028	0.070	0.074	0.039
Strawberries	8.22	1.65	0.010	<b>0.657</b>	0.023	0.163	0.043	0.001	-0.051	0.023	0.021
Savoury biscuits	6.63	<b>1.87</b>	-0.003	0.142	0.144	0.124	0.015	-0.058	-0.058	0.013	-0.019
Gherkins	6.19	2.31	0.073	0.241	0.029	-0.025	-0.009	0.090	0.045	0.093	0.021
Spinach or greens	7.91	<b>1.56</b>	-0.040	0.257	-0.130	-0.055	0.064	0.063	-0.018	<b>0.637</b>	0.072
Pineapple	7.50	2.09	0.017	<b>0.619</b>	-0.038	0.148	0.047	0.070	-0.007	0.075	0.051
Hot tea	7.67	<b>2.17</b>	-0.131	0.263	0.042	0.152	0.115	0.000	-0.165	0.223	0.097
Cheesecake	6.81	2.28	0.085	0.174	0.110	<b>0.653</b>	0.000	0.008	-0.018	0.052	0.050
Salting foods	4.88	2.61	0.172	-0.019	0.221	0.060	-0.031	0.188	0.064	-0.089	-0.018
Chargrilled meats	6.18	2.53	<b>0.720</b>	-0.015	0.184	0.063	0.030	0.103	0.017	-0.101	-0.005
Old cheese	6.14	<b>3.08</b>	0.033	0.072	-0.042	0.070	-0.010	0.233	0.312	0.011	0.200
Raw onion	5.00	2.63	0.096	0.068	-0.020	-0.122	-0.012	<b>0.453</b>	0.028	0.060	0.008

Continuation Table S1.	Preference score after imputation (N=15,954)		Clusters								
Included items	Mean	SD	1	2	3	4	5	6	7	8	9
Going to a cafe	6.65	2.21	-0.023	0.075	0.184	0.228	0.121	0.038	0.158	0.015	0.084
Orange juice	7.51	2.03	0.049	<b>0.445</b>	0.038	0.113	0.075	0.089	-0.034	-0.008	0.006
Black pepper	5.98	2.25	0.081	0.084	0.023	-0.006	0.066	<b>0.650</b>	0.132	0.156	0.074
Unsalted nuts	6.30	2.42	-0.082	0.208	-0.072	0.118	0.126	0.157	0.034	0.267	0.121
Beef steak	6.91	2.61	<b>0.659</b>	0.051	-0.064	0.012	0.025	0.107	0.087	0.008	0.049
Eggs	7.54	1.68	0.278	0.185	0.102	0.010	0.049	0.118	0.000	0.131	0.100
Excluded items	Missing or never tried (%)										
Soy milk	30.2										
Horseradish/wasabi	28.5										
Faux meat products [Quorns]	21.4										
Low calorie sweetener in coffee. teas or other beverages	18.0										
Fresh coriander	17.4										
Tabasco sauce	16.9										
Cigarette smoking	13.3										
Curries	11.9										
Vodka. gin. scotch	10.1										
Commuting [car. bus. train]	9.7										
Porridge	8.5										
Going to the gym	8.2										
Eggplant	8.1										
Seeing a mouse at home	7.5										
Getting caught in a lie	6.5										
Blue cheese	6.4										
Soy sauce	5.4										
Cornflakes	5.4										
Sweet coffee drinks & whipped cream	5.1										
Diet fizzy soft drinks	5.0										

*Supplementary Figure S1. Principal component analysis: scree plot. The inflection point was used to determine the number of components. Nine food preference clusters were identified.*



*Supplementary Table S2. Saturated model-fitting results for twin correlations per food preference cluster.*

	Test	-2 LL	df	$\chi^2$	$\Delta df$	p-value	AIC
<b>Cluster Meat</b>							
0. Saturated model		38748.52	4866				29016.52
1. Zygosity effects on means	1 vs 0	38750.95	4868	2.44	2	0.12	29014.95
2. Sex effect on mean	2 vs 1	39301.67	4869	550.72	1	0.00	29563.67
3. Age effect on mean	3 vs 1	38867.81	4869	116.85	1	0.00	29129.81
4. Zygosity effect on variance	4 vs 1	38781.83	4872	30.88	4	0.00	29037.83
5. Sex effect on variance	5 vs 1	38861.47	4871	110.52	3	0.00	29119.47
6. Covariances are equal across sexes	-						
<b>Cluster Fish</b>							
0. Saturated model		32187.59	4866				22455.59
1. Zygosity effects on means	1 vs 0	32188.71	4868	1.12	2	0.57	22452.71
2. Sex effect on mean	2 vs 1	32212.46	4869	23.75	1	0.00	22474.46
3. Age effect on mean	3 vs 1	32197.35	4869	8.64	1	0.00	22459.35
4. Zygosity effect on variance	4 vs 1	32193.73	4872	5.02	4	0.29	22449.73
5. Sex effect on variance	5 vs 4	32200.63	4873	6.91	1	0.009	22454.63
6. Covariances are equal across sexes	-						
<b>Cluster Fruit</b>							
0. Saturated model		34753.40	4866				25021.40
1. Zygosity effects on means	1 vs 0	34761.51	4868	8.11	2	0.02	25025.51
2. Sex effect on mean	2 vs 1	34841.18	4869	79.67	1	0.00	25103.18
3. Age effect on mean	3 vs 1	34761.62	4869	0.11	1	0.74	25023.62
4. Zygosity effect on variance	4 vs 3	34770.27	4873	8.65	4	0.07	25024.27
5. Sex effect on variance	5 vs 4	34770.35	4874	0.08	1	0.78	25022.35
6. Covariances are equal across sexes	6 vs 5	34779.45	4877	9.09	3	0.03	25025.45
<b>Cluster Vegetables</b>							
0. Saturated model		30529.48	4866				20797.48
1. Zygosity effects on means	1 vs 0	30530.37	4868	0.89	2	0.64	20794.37
2. Sex effect on mean	2 vs 1	30541.29	4869	10.92	1	0.00	20803.29
3. Age effect on mean	3 vs 1	30656.20	4869	125.83	1	0.00	20918.20
4. Zygosity effect on variance	4 vs 1	30538.51	4872	8.14	4	0.09	20794.51
5. Sex effect on variance	5 vs 4	30544.40	4873	5.89	1	0.02	20798.40
6. Covariances are equal across sexes	6 vs 5	30550.11	4876	5.72	3	0.13	20798.11
<b>Cluster Savory Snacks</b>							
0. Saturated model		30367.40	4866				20635.40
1. Zygosity effects on means	1 vs 0	30372.65	4868	5.25	2	0.07	20636.65
2. Sex effect on mean	2 vs 1	30380.98	4869	8.33	1	0.00	20642.98
3. Age effect on mean	3 vs 1	30830.82	4869	458.17	1	0.00	21092.82
4. Zygosity effect on variance	4 vs 1	30387.61	4872	14.96	4	0.00	20643.61
5. Sex effect on variance	5 vs 1	30399.93	4871	27.28	3	0.00	20657.93
6. Covariances are equal across sexes	-						

\* Note: -2LL = -2 log-likelihood; df = degrees of freedom; AIC = Akaike's Information Criterion; SD = standard deviation.

Continuation Table S2.	Test	-2 LL	df	$ X^2 $	$\Delta df$	p-value	AIC
<b>Cluster Sweet snacks</b>							
0. Saturated model		34855.04	4866				25123.04
1. Zygosity effects on means	1 vs 0	34858.91	4868	3.87	2	0.14	25122.91
2. Sex effect on mean	2 vs 1	34860.30	4869	1.39	1	0.24	25122.30
3. Age effect on mean	3 vs 2	35059.97	4870	199.67	1	0.00	25319.97
4. Zygosity effect on variance	4 vs 2	34866.17	4873	5.87	4	0.21	25120.17
5. Sex effect on variance	5 vs 4	34870.39	4874	4.22	1	0.04	25122.39
6. Covariances are equal across sexes	6 vs 5	34873.74	4877	3.35	3	0.34	25119.74
<b>Cluster Spices</b>							
0. Saturated model		34213.90	4866				24481.90
1. Zygosity effects on means	1 vs 0	34216.27	4868	2.38	2	0.30	24480.27
2. Sex effect on mean	2 vs 1	34349.55	4869	133.28	1	0.00	24611.55
3. Age effect on mean	3 vs 1	34217.11	4869	0.84	1	0.36	24479.11
4. Zygosity effect on variance	4 vs 3	34222.89	4873	5.78	4	0.22	24476.89
5. Sex effect on variance	5 vs 4	34225.12	4874	2.23	1	0.14	24477.12
6. Covariances are equal across sexes	6 vs 5	34228.92	4877	3.80	3	0.28	24474.92
<b>Cluster Drinks</b>							
0. Saturated model		35940.76	4866				26208.76
1. Zygosity effects on means	1 vs 0	35943.58	4868	2.82	2	0.24	26207.58
2. Sex effect on mean	2 vs 1	36125.51	4869	181.93	1	0.00	26387.51
3. Age effect on mean	3 vs 1	35962.61	4869	19.03	1	0.00	26224.61
4. Zygosity effect on variance	4 vs 1	35950.82	4872	7.24	4	0.12	26206.82
5. Sex effect on variance	5 vs 4	35967.62	4873	16.80	1	0.00	26221.62
6. Covariances are equal across sexes	-						

\* Note: -2LL = -2 log-likelihood; df = degrees of freedom; AIC = Akaike's Information Criterion; SD = standard deviation.

*Supplementary Table S3. Saturated model-fitting results for ADE models per food preference cluster.*

Test		-2LL	df	X <sup>2</sup>	Δdf	p-value	AIC
<b>Cluster Meat</b>							
0. Saturated ADE model		38743.11	4867				29009.11
1. Qualitative sex differences	1 vs 0	38743.43	4869	0.32	2	0.85	29005.43
2. Quantitative sex differences	2 vs 1	38848.27	4872	104.84	3	0.00	29104.27
3a. AE model. males	3a vs 1	38744.07	4870	0.64	1	0.42	29004.07
3b. AE model. females	3b vs 1	38746.04	4870	2.61	1	0.11	29006.04
4a. E model. males	4a vs 3a	38833.26	4871	89.19	1	0.00	29091.26
4b. E model. females	4b vs 3b	39116.71	4871	370.68	1	0.00	39116.71
<b>Cluster Fish</b>							
0. Saturated ADE model		32165.64	4867				22431.64
1. Qualitative sex differences	1 vs 0	32165.64	4869	0.00	2	1.00	22427.64
2. Quantitative sex differences	2 vs 1	32182.33	4872	16.70	3	0.00	22438.33
3a. AE model. males	3a vs 1	32167.38	4870	1.75	1	0.19	22427.38
3b. AE model. females	3b vs 1	32172.72	4870	7.09	1	0.01	22432.72
4a. E model. males	4a vs 3a	32358.15	4871	190.76	1	0.00	22616.15
4b. E model. females	Not tested because model 3b not accepted.						
<b>Cluster Fruit</b>							
0. Saturated ADE model		34743.62	4868				25007.62
1. Qualitative sex differences	1 vs 0	34743.62	4870	0.00	2	1.00	25003.62
2. Quantitative sex differences	2 vs 1	34751.57	4873	7.95	3	0.05	25005.57
3. AE model	3 vs 2	34762.72	4874	11.15	1	0.00	25014.72
4. E model	Not tested because model 3 not accepted.						
<b>Cluster Vegetables</b>							
0. Saturated ADE model		30517.47	4867				20783.47
1. Qualitative sex differences	1 vs 0	30517.47	4869	0.00	2	1.00	20779.47
2. Quantitative sex differences	2 vs 1	30528.64	4872	11.17	3	0.01	20784.64
3. AE model	3 vs 2	30528.90	4873	0.26	1	0.61	20782.90
4. E model	4 vs 3	31032.80	4874	503.89	1	0.00	21284.80
<b>Cluster Savory snacks</b>							
0. Saturated ADE model		30364.94	4867				
1. Qualitative sex differences	1 vs 0	30364.94	4869	0.00	2	1.00	20626.94
2. Quantitative sex differences	2 vs 1	30394.26	4872	29.32	3	0.00	20650.26
3a. AE model. males	3a vs 1	30364.96	4870	0.02	1	0.88	20624.96
3b. AE model. females	3b vs 1	30366.15	4870	1.21	1	0.27	20626.15
4a. E model. males	4a vs 3a	30436.32	4871	71.35	1	0.00	20694.32
4b. E model. females	4b vs 3b	30639.34	4871	273.19	1	0.00	20897.34

\* Note: -2LL = -2 log-likelihood; df = degrees of freedom; AIC = Akaike's Information Criterion.

Continuation Table S3.	Test	-2LL	df	$\chi^2$	$\Delta df$	p-value	AIC
<b>Cluster Sweet snacks</b>							
0. Saturated ADE model		34839.55	4868				25103.55
1. Qualitative sex differences	1 vs 0	34839.55	4870	0.00	2	1.00	25099.55
2. Quantitative sex differences	2 vs 1	34846.38	4873	6.83	3	0.08	25100.38
3. AE model	3 vs 2	34850.21	4874	3.82	1	0.05	25102.21
4. E model	4 vs 3	35228.04	4875	377.83	1	0.00	25478.04
<b>Cluster Sport</b>							
0. Saturated ADE model		34945.82	4867				25211.82
1. Qualitative sex differences	1 vs 0	34945.83	4869	0.01	2	1.00	25207.83
2. Quantitative sex differences	2 vs 1	34960.79	4872	14.66	3	0.00	25216.79
3a. AE model. males	3a vs 1	34945.84	4870	0.01	1	0.92	25205.84
3b. AE model. females	3b vs 1	34950.76	4870	4.93	1	0.03	25210.76
4a. E model. males	4a vs 3a	35027.16	4871	81.32	1	0.00	25285.16
4b. E model. females	4b vs 3b	35226.32	4871	275.56	1	0.00	25484.32
<b>Cluster Spices</b>							
0. Saturated ADE model		34197.45	4868				24461.45
1. Qualitative sex differences	1 vs 0	34197.45	4870	0.00	2	1.00	24457.45
2. Quantitative sex differences	2 vs 1	34203.21	4873	5.76	3	0.12	24457.21
3. AE model	3 vs 2	34212.16	4874	8.96	1	0.00	24464.16
4. E model	Not tested because model 3 not accepted.						
<b>Cluster Drinks</b>							
0. Saturated ADE model		35923.45	4867				26189.45
1. Qualitative sex differences	1 vs 0	35923.45	4869	0.00	2	1.00	26185.45
2. Quantitative sex differences	2 vs 1	35943.32	4872	19.87	3	0.00	26199.32
3a. AE model. males	3a vs 1	35923.48	4870	0.03	1	0.85	26183.48
3b. AE model. females	3b vs 1	35928.64	4870	5.19	1	0.02	26188.64
4a. E model. males	4a vs 3a	36086.35	4871	162.87	1	0.00	26344.35
4b. E model. females	4b vs 3b	36459.39	4871	530.75	1	0.00	26717.39

\* Note: -2LL = -2 log-likelihood; df = degrees of freedom; AIC = Akaike's Information Criterion.

*Supplementary Table S4. Spouse correlations for father-mother pairs and for twin-spouse pairs.*

<b>Father-mother spouse pairs N=1,387</b>			<b>Twin-spouse pairs N=582</b>	
Cluster	r	p-value	r	p-value
<b>Meat</b>	.20	<.001	.21	<.001
<b>Fish</b>	.19	<.001	.19	<.001
<b>Fruit</b>	.14	<.001	.09	.056
<b>Vegetables</b>	.23	<.001	.31	<.001
<b>Savory snacks</b>	.19	<.001	.31	<.001
<b>Sweet snacks</b>	.12	<.001	.24	<.001
<b>Spices</b>	.29	<.001	.25	<.001
<b>Drinks</b>	.30	<.001	.30	<.001

*Supplementary Table S5. Overview current literature on heritability of different food preference clusters.*

<b>Studies in children</b>					
Breen et al. (2006) (N=428)	Correlation MZ [95% CI]	Correlation DZ [95% CI]	A [95% CI]	C [95% CI]	E [95% CI]
Vegetables	0.88 [0.83; 0.92]	0.67 [0.56; 0.77]	0.37 [0.20; 0.58]	0.51 [0.30; 0.66]	0.13 [0.09; 0.17]
Fruits	0.84 [0.78; 0.89]	0.73 [0.63-0.81]	0.20 [0.04; 0.38]	0.64 [0.46; 0.77]	0.16 [0.12; 0.22]
Desserts	0.90 [0.85; 0.93]	0.52 [0.37; 0.65]	0.78 [0.63; 0.92]	0.12 [0.00; 0.27]	0.10 [0.08; 0.12]
Meat and Fish	0.82 [0.75; 0.88]	0.59 [0.45; 0.70]	0.51 [0.37; 0.68]	0.32 [0.16; 0.46]	0.17 [0.14; 0.20]
Fildes et al. (2014) (N=2.686)	Correlation MZ [95% CI]	Correlation DZ [95% CI]	A [95% CI]	C [95% CI]	E [95% CI]
Vegetables	0.89 [0.87; 0.90]	0.62 [0.59; 0.65]	0.54 [0.47; 0.63]	0.35 [0.27; 0.42]	0.11 [0.10; 0.13]
Fruits	0.88 [0.86; 0.89]	0.61 [0.57; 0.63]	0.53 [0.45; 0.61]	0.35 [0.26; 0.43]	0.13 [0.11; 0.15]
Protein	0.84 [0.82; 0.86]	0.62 [0.59; 0.65]	0.48 [0.40; 0.57]	0.37 [0.27; 0.45]	0.15 [0.13; 0.17]
Dairy	0.81 [0.79; 0.83]	0.68 [0.65; 0.70]	0.27 [0.20; 0.35]	0.54 [0.47; 0.60]	0.19 [0.16; 0.22]
Snacks	0.88 [0.87; 0.90]	0.76 [0.74; 0.78]	0.29 [0.24; 0.35]	0.60 [0.54; 0.65]	0.11 [0.09; 0.12]
Starch	0.88 [0.86; 0.89]	0.73 [0.71; 0.76]	0.32 [0.26; 0.38]	0.57 [0.51; 0.62]	0.11 [0.10; 0.13]
<b>Studies in adults</b>					
Pallister et al. (2015) (N=2.107)	Correlation MZ [95% CI]	Correlation DZ [95% CI]	A [95% CI]	C [95% CI]	E [95% CI]
Fruit and vegetable	0.39 [0.30; 0.47]	0.10 [-0.04; 0.24]	0.36 [0.25; 0.44]	-	0.64 [0.56; 0.72]
Distinctive tastes	0.58 [0.51; 0.65]	0.33 [0.20; 0.45]	0.58 [0.52; 0.64]	-	0.42 [0.36; 0.48]
Sweet and high carbohydrate	0.53 [0.45; 0.60]	0.33 [0.20; 0.45]	0.52 [0.45; 0.59]	-	0.48 [0.41; 0.55]
Meat	0.46 [0.38; 0.54]	0.12 [-0.02; 0.25]	0.44 [0.35; 0.51]	-	0.56 [0.49; 0.64]
Smith et al. (2016) (N=2.865)	Correlation MZ [95% CI]	Correlation DZ [95% CI]	A [95% CI]	D [95% CI]	E [95% CI]
Vegetables	0.58 [0.51; 0.63]	0.17 [0.10; 0.24]	0.58 [0.52; 0.63]	-	0.42 [0.37; 0.48]
Fruit	0.52 [0.45; 0.58]	0.23 [0.16; 0.30]	0.35 [0.29; 0.46]	0.15 [0.06; 0.24]	0.50 [0.44; 0.57]
Meat or fish	0.45 [0.37; 0.52]	0.18 [0.11; 0.25]	0.48 [0.41; 0.54]	-	0.52 [0.46; 0.59]
Dairy	0.47 [0.40; 0.54]	0.16 [0.09; 0.23]	0.48 [0.41; 0.54]	-	0.52 [0.46; 0.59]
Snacks	0.46 [0.39; 0.53]	0.15 [0.08 -0.22]	0.47 [0.40; 0.53]	-	0.53 [0.47; 0.60]
Starches	0.36 [0.28 - 0.44]	0.08 [0.01; 0.15]	0.37 [0.29; 0.45]	-	0.63 [0.55; 0.71]
Törnwall et al. (2014) (N=331)	Correlation MZ [95% CI]	Correlation DZ [95% CI]	A [95% CI]	D [95% CI]	E [95% CI]
Cluster including: Salty-and-fatty. Sweet-and-fatty. Fish and Fruit and Vegetables	0.72 [0.30; 0.93]	0.32 [0.00; 0.60]	0.72 [0.36; 0.92]	-	0.28 [0.10; 0.64]

\* Note: MZ = monozygotic twins; DZ = dizygotic twins; A = Additive genetic effects; C = Common environmental effects; D = Dominance genetic effects; E = Non-shared environmental effects; 95% CI = 95% confidence interval.