

Analysis of variance at three factors with two ways interactions

Table S1. Descriptor: **aroma**

Source of variation	SS	DF	MS	F	p>0.05
Samples (S)	21.77	5	4.35	17.8	*
Judges (J)	5.97	9	0.66	2.7	*
Replicates (R)	0.03	1	0.03	0.1	ns
S x J	140.73	45	3.13	12.8	*
J x R	1.27	5	0.25	1.0	ns
S x R	1.13	9	0.13	0.5	ns
Residue	11.00	45	0.24	1.0	
Total	179.47	119			

DF = Degrees of freedom,
 SS = Sum of squares
 MS = Mean square
 F= F-values

Table S2. Descriptor: **aroma of lemon**

Source of variation	SS	DF	MS	F	p>0.05
Samples (S)	26.34	5	5.27	22.6	*
Judges (J)	40.68	9	4.52	19.4	*
Replicates (R)	0.21	1	0.21	0.9	ns
S x J	112.08	45	2.49	10.7	*
J x R	0.14	5	0.03	0.2	ns
S x R	0.54	9	0.06	0.3	ns
Residue	10.50	45	0.23	1.0	
Total	189.59	119			

DF = Degrees of freedom,
 SS = Sum of squares
 MS = Mean square
 F= F-values

Table S3. Descriptor: **flavour**

Source of variation	SS	DF	MS	F	p>0.05
Samples (S)	9.24	5	1.85	9.8	*
Judges (J)	3.68	9	0.41	2.1	*
Replicates (R)	0.07	1	0.08	0.4	ns
S x J	188.18	45	4.18	22.2	*
J x R	1.18	5	0.24	1.2	ns
S x R	0.68	9	0.08	0.4	ns
Residue	8.50	45	0.19	1.0	
Total	209.59	119			

DF = Degrees of freedom,
 SS = Sum of squares
 MS = Mean square
 F= F-values

Table S4. Descriptor: flavour of cereal

Source of variation	SS	DF	MS	F	p>0.05
Samples (S)	22.87	5	4.57	41.2	*
Judges (J)	23.13	9	2.57	23.1	*
Replicates (R)	0.03	1	0.03	0.3	ns
S x J	72.97	45	1.62	14.6	*
J x R	0.47	5	0.09	0.8	ns
S x R	0.80	9	0.09	0.8	ns
Residue	5.00	45	0.11	1.0	
Total	123.97	119			

DF = Degrees of freedom,
SS = Sum of squares
MS = Mean square
F= F-values

Table S5. Descriptor: flavour of lemon

Source of variation	SS	DF	MS	F	p>0.05
Samples (S)	24.07	5	4.81	21.7	*
Judges (J)	109.80	9	12.20	54.9	*
Replicates (R)	0.03	1	0.03	0.2	ns
S x J	128.10	45	2.85	12.8	*
J x R	1.27	5	0.25	1.1	ns
S x R	2.13	9	0.24	1.1	ns
Residue	10.00	45	0.22	1.0	
Total	271.97	119			

DF = Degrees of freedom,
SS = Sum of squares
MS = Mean square
F= F-values

Table S6. Descriptor: crispiness

Source of variation	SS	DF	MS	F	p>0.05
Samples (S)	18.54	5	3.71	37.1	*
Judges (J)	6.58	9	0.73	7.3	*
Replicates (R)	0.41	1	0.41	4.1	*
S x J	88.37	45	1.96	19.6	*
J x R	0.34	5	0.07	0.7	ns
S x R	1.84	9	0.20	2.0	ns
Residue	4.50	45	0.10	1.0	
Total	117.99	119			

DF = Degrees of freedom,
SS = Sum of squares
MS = Mean square
F= F-values

Table S7. Descriptor: firmness

Source of variation	SS	DF	MS	F	p>0.05
Samples (S)	7.34	5	1.47	14.7	*
Judges (J)	49.34	9	5.48	54.8	*
Replicates (R)	0.41	1	0.41	4.1	*
S x J	57.41	45	1.28	12.8	*
J x R	0.14	5	0.03	0.3	ns
S x R	1.68	9	0.19	1.9	ns
Residue	4.50	45	0.10	1.0	
Total	118.59	119			

DF = Degrees of freedom,
SS = Sum of squares
MS = Mean square
F= F-values

Table S8. Descriptor: friability

Source of variation	SS	DF	MS	F	p>0.05
Samples (S)	39.87	5	7.97	59.8	*
Judges (J)	45.63	9	5.07	38.0	*
Replicates (R)	0.03	1	0.03	0.3	ns
S x J	84.47	45	1.88	14.1	*
J x R	0.27	5	0.05	0.4	ns
S x R	0.63	9	0.07	0.5	ns
Residue	6.00	45	0.13	1.0	
Total	175.97	119			

DF = Degrees of freedom,
SS = Sum of squares
MS = Mean square
F= F-values

Table S9. Descriptor: fat perception

Source of variation	SS	DF	MS	F	p>0.05
Samples (S)	3.67	5	0.73	8.3	*
Judges (J)	57.03	9	6.34	71.3	*
Replicates (R)	0.30	1	0.30	3.4	ns
S x J	51.17	45	1.14	12.8	*
J x R	0.30	5	0.06	0.7	ns
S x R	1.20	9	0.13	1.5	ns
Residue	4.00	45	0.09	1.0	
Total	115.87	119			

DF = Degrees of freedom,
SS = Sum of squares
MS = Mean square
F= F-values

Table S10. Descriptor: **sweetness**

Source of variation	SS	DF	MS	F	p>0.05
Samples (S)	2.38	5	0.48	4.8	*
Judges (J)	33.18	9	3.69	36.9	*
Replicates (R)	0.68	1	0.68	6.8	*
S x J	38.88	45	0.86	8.6	*
J x R	0.18	5	0.04	0.4	ns
S x R	1.24	9	0.14	1.4	ns
Residue	4.50	45	0.10	1.0	
Total	78.93	119			

DF = Degrees of freedom,
SS = Sum of squares
MS = Mean square
F= F-values

Table S11. Descriptor: **palatability**

Source of variation	SS	DF	MS	F	p>0.05
Samples (S)	4.87	5	0.97	11.0	*
Judges (J)	47.17	9	5.24	59.0	*
Replicates (R)	0.53	1	0.53	6.0	*
S x J	22.63	45	0.50	5.7	*
J x R	0.07	5	0.01	0.2	ns
S x R	1.30	9	0.14	1.6	ns
Residue	4.00	45	0.09	1.0	
Total	78.67	119			

DF = Degrees of freedom,
SS = Sum of squares
MS = Mean square
F= F-values