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Assessment of field pea (*Pisum sativum* L.) grain yield, aerial biomass and flowering date stability in Mediterranean environments

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Supplementary Table 1. Analysis of variance for the AMMI model of grain yield (t/ha) for an international pea trial

Source of variation	DF	SS	^a DF _C	^b F _C	p-value
Model	109	800.58***			
Environment (E)	9	573.40***			
Replication within E	20	0.79			
Genotype (G)	8	55.88***			
E x G	72	179.74***			
IPCA1	16	61.50 ***	56	39.50	0.0000
IPCA2	14	50.48 ***	42	30.18	0.0000
IPCA3	12	43.30 ***	30	15.24	0.0000
IPCA4	10	13.66 ***	20	10.08	0.0000
IPCA5	8	5.99 ***	12	7.46	0.0000
IPCA6	6	2.95***	6	5.71	0.0000
IPCA7	4	1.78	2	0.41	0.6636
IPCA8	2	0.04	0		
Error	151	8.07			
Total variation	260	808.65			

^aDF_C: Degrees of Freedom calculated according to the FR-test proposed by Cornelius et al., (1992).
^bF_C: F-value (Cornelius et al., 1992).

Supplementary Table 2. Analysis of variance for the AMMI model of biomass (t/ha) for an international pea trial

Source of variation	DF	SS	^a DF _C	^b F _C	p-value
Model	109	9921.49***			
Environment (E)	9	7411.52***			
Replication within E	20	35.90			
Genotype (G)	8	556.63***			
E x G	72	2058.81***			
IPCA1	16	1010.27***	56	10.95	0.0000
IPCA2	14	361.47***	42	9.56	0.0000
IPCA3	12	320.00***	30	7.15	0.0000
IPCA4	10	227.06***	20	4.09	0.0000
IPCA5	8	92.08***	12	2.33	0.001
IPCA6	6	30.68	6	1.68	0.1294
IPCA7	4	14.35	2	0.85	0.4303
IPCA8	2	2.90	0		
Error	149	254.89			
Total variation	258	10176.38			

^aDF_C: Degrees of Freedom calculated according to the FR-test proposed by Cornelius et al., (1992).
^bF_C: F-value (Cornelius et al., 1992).

Supplementary Table 3. Analysis of variance for the AMMI model of flowering for an international pea trial

Source of variation	DF	SS	^a DF _c	^b F _c	p-value
Model	109.00	123958.92***			
Environment (E)	9.00	108381.51***			
Replication within E	20.00	81.70			
Genotype (G)	8.00	6201.99***			
E x G	72.00	9293.72***			
IPCA1	16.00	5493.64***	56	20.30	0.0000
IPCA2	14.00	2158.67***	42	11.69	0.0000
IPCA3	12.00	878.03***	30	7.61	0.0000
IPCA4	10.00	426.28***	20	5.04	0.0000
IPCA5	8.00	254.03***	12	2.07	0.01
IPCA6	6	60.79	6	1.11	0.3585
IPCA7	4	20.66	2	0.24	0.7853
IPCA8	2	1.62	0		
Error	160.00	534.96			
Total variation	269.00	124493.89			

^aDF_c: Degrees of Freedom calculated according to the FR-test proposed by Cornelius et al., (1992).

^bF_c: F-value (Cornelius et al., 1992).

Supplementary Figure 1. Principal component analysis (PCA) biplot of AMMI parameters for yield (77% of the information extracted).

