

Supplementary data

**Genetic diversity of Moroccan bitter vetch *Vicia ervilia* (L.) Willd. landraces revealed by morphological and SSR markers**

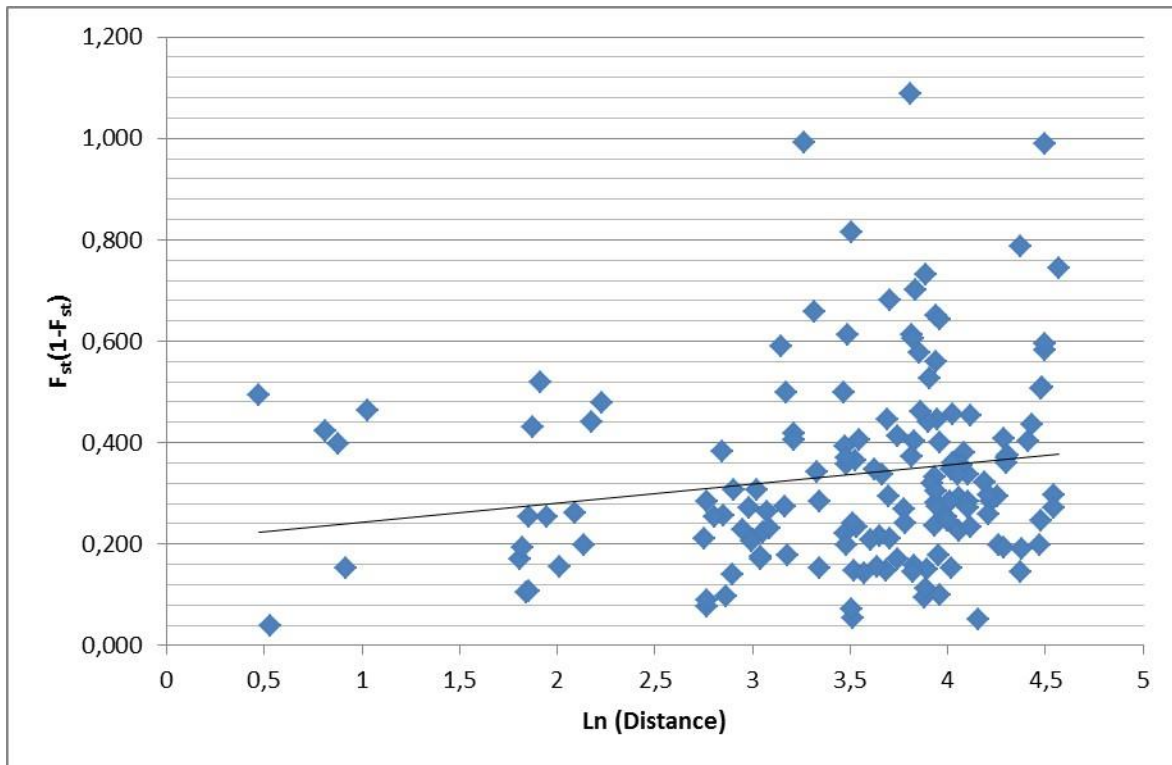
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**Supplementary Table 1.** Characteristics of 8 microsatellite primers used to analyze genetic diversity in bitter vetch.

Locus	Size (pb)	Primer	Repetition
VE 02	240	F : CAAGCTGGCCACCTAATGC R : ATATTAAGGGTTTCGAGTTGGG	GA (17)
VE 03	155	F : TAGCAAGCCTTTGAACCTTTT R : CCTGAAACAGCAAACCAACA	AC (17)
VE 05	250	F : TTTAATTTTGCTCCTTGCGG R : CCTTACCATAACCTAAACCTAACCC	TATG (16)
VE 07	248	F : TTCGGATATGGGAACCTTTATG R : GGTTCTAGAAAACAGCTCCCAA	TG (16)
VE 09	149	F : CTGCTGATGATGTTGTGGATG R : GAACACGTGTACGGAGACCA	TGT (15)
VE 14	118	F : TTTGGAGGCTTTGAGCCTTA R : CCCAACAGGGATACCACTTC	TTC (13)
VE 19	254	F : GTCAGAATCCCCATGTACACAA R : CCCTCTCAAACACCTTCCA	CTT (12)
VE 27	191	F : GTGTCTTAGATTCATCAATGCG R : TCATTCATCACAAAGTTACTGCAA	GA (10)

**Supplementary Table 2.** Localization of the ecotypes sampled.

Site name	Longitude East	Latitude North	Altitude (m)
Kramat	05°34,780	35°40,638	301
Dharlahdida	05°34,307	35°39,893	373
Rouman	05°38,098	35°32,080	175
Ahrit	05°33,511	35°38,990	224
Adrou	05°33,236	35°25,308	566
Achakrad	05°29,985	35°23,729	468
Tafifoute	05°22,355	35°23,507	647
Bouatou	05°25,355	35°221,507	713
Jnanate	05°23,301	35°17,876	720
Iabasan	05°25,504	35°16,551	819
Talamboute	05°18,888	35°18,262	504
Pont Talamboute	05°20,992	35°18,979	419
Khizana	05°14,750	35°03,583	825
Bab el hourrate	05°04,150	34°59,348	492
Asserdoune	05°03,178	34°59,797	644
Ain Beida	05°24,647	35°01,393	185
Tiamma	05°32,011	34°55,654	136
Douaher	05°33,317	34°52,120	228
El Jabriyine	05°32,703	34°52,914	170



**Supplementary Fig 1.** Plot of pairwise  $F_{st}/(1-F_{st})$  ratios against the logarithm of distances (in km) between ecotypes.