

Supplementary Data

Genetic diversity in the foxtail millet (*Setaria italica*) germplasm as determined by agronomic traits and microsatellite markers

Supplementary Table S1. Agronomic and phenotypic trait investigation of the three clusters.

Agronomic trait	Q V	Description	cluster A	cluster B	cluster C
Quantitative Trait					
Plant height (cm)		80.6(S266)-155.2(S257)(103.62±5.83)	97.2(S2)-151.34(S12) 106.42±3.97	97.86(S6)-138.69(S108) 104.65±6.77	85.8(S80)-152.36(S93) 102.79±5.86
Shortest	1	length ≤ 90	-	-	3(1.3%)
Short	2	90 < length ≤ 110	27(90%)	50(86.2%)	213(89.5%)
Medium	3	110 < length ≤ 130	-	5(8.6%)	15(6.3%)
High	4	130 < length ≤ 150	1(3.3%)	3(5.2%)	6(2.5%)
Highest	5	length > 150	2(6.7%)	-	1(0.4%)
Spike length (cm)		7.5(S272)-28.9(S17)(15.84±2.29)	8.56(S24)-18.68(S88) 14.5±1.83	8(S272)-25.65(S264) 15.61±2.15	8.16(S172)-26.86(S17) 16.06±2.38
Shortest	1	length ≤ 10	3(10%)	10(17.2%)	12(5.0%)
Short	2	10 < length ≤ 20	27(90%)	44(75.9%)	206(86.6%)
Medium	3	20 < length ≤ 30	-	4(6.9%)	20(8.4%)
Long	4	30 < length ≤ 40	-	-	-
Longest	5	length > 40	-	-	-
Blade length of flag leaf (cm)		34.64(S17)-62.9(S79)(48.72±5.65)	36.46(S2)-62.63(S24) 46.99±4.26	35.78(S1)-62.9(S79) 49.09±5.57	34.64(S17)-62.68(S183) 48.84±5.85
Shortest	1	length ≤ 30	-	-	-
Short	2	30 < length ≤ 40	4(13.3%)	2(3.4%)	10(4.2%)
Medium	3	40 < length ≤ 50	16(53.3%)	32(55.2%)	123(51.7%)
Long	4	50 < length ≤ 60	8(26.7%)	20(34.5%)	100(42.0%)
Longest	5	length > 60	2(6.7%)	4(6.9%)	5(2.1%)
Blade width of flag leaf (cm)		1.57(S78)-3.02(S1)(2.01±0.39)	1.58(S12)-3.01(S67) 2.01±0.39	1.61(S109)-3.02(S1) 1.99±0.40	1.57(S63)-2.56(S57) 2.02±0.38
Wide	1	width > 3	1(3.3%)	1(1.7%)	-
Medium	2	2 < width ≤ 3	12(40%)	21(36.2%)	144(47.9%)
Narrow	3	width ≤ 2	17(56.7%)	36(62.1%)	124(52.1%)
Stem width (cm)		1.49(S2&S172)-2.33(S51&S86)(1.85±0.30)	1.49(S2)-2.32(S13) 1.85±0.28	1.54(S167)-2.26(S16) 1.86±0.296	1.49(S172)-2.33(S86) 1.85±0.30
Wide	1	Width > 3	-	-	-
Medium	2	2 < width ≤ 3	7(23.3%)	14(24.1%)	43(18.1%)
Narrow	3	width ≤ 2	23(76.7%)	44(75.9%)	195(81.9%)
Internode length (cm)		8.81(S87)-11.66(S1)(10.14±0.80)	9.15(S49)-11.28(S115) 10.09±0.71	8.8(S199)-11.66(S1) 10.03±0.73	8.81(S78)-11.45(S170) 10.17±0.83
Short	1	length ≤ 10	12(40%)	26(44.8%)	90(37.8%)
Medium	2	10 < length 20	18(60%)	32(55.2%)	148(62.2%)
Long	3	Length ≥ 20	-	-	-
Germination rate (%)		45.8(S188)-95.6(S158)(87.76±5.38)	65.6(S9)-94.2(S8) 87.09±4.73	67(S47)-95(S70) 88.497±4.98	45.8(S188)-95.6(S158) 87.67±5.56
	1	> 80%	27(90%)	53(91.4%)	217(91.2%)
	2	50-80%	3(10%)	5(8.6%)	20(8.4%)
	3	< 50%	-	-	1(0.4%)
Plant survival at maturity(%)		45.8(S188)-95.4(S134)(88.17±4.43)	65.6(S2)-93(S115) 87.65±3.84	65.6(S42)-95(S121) 89.19±3.90	45.8(S188)-95.4(S134) 87.98±4.63
	1	> 80%	28(93.3%)	56(96.6%)	218(91.6%)
	2	50-80%	2(6.7%)	2(3.4%)	19(8.0%)
	3	< 50%	-	-	1(0.4%)
Spike weight		42.3(S198)- 80.0(S12)(58.92±3.67)	51.2(S173)-80.0(S12)	50.2(S72)-78.3(S43)	42.3(S198)-76.8(S308)

			57.23±4.15	59.36±3.18	58.19±3.45
Heavy	1	weight > 50 g	30(100%)	58(100%)	236(99.16%)
Medium	2	30 < weight ≤ 50 g	0	0	2(0.84%)
Light	3	weight < 30 g	0	0	0
Grain weight		1.1(S198)- 2.9(S12)(2.24±0.39)	1.2(S173)-2.9(S12) 2.23±0.35	1.3(S72)-2.8(S43) 2.36±0.48	1.1(S198)-2.8(S308) 2.19±0.45
Heavy	1	weight > 3 g	0	0	0
Medium	2	1 < weight ≤ 3 g	30(100%)	58(100%)	238(100%)
Light	3	weight < 1 g	0	0	0
Days to Heading		15(S5,S97,S146)- 18(S114,S213,S80)(16.85±1.6)	15(S5)-18(S114) 16.7±1.4	15(S97)-18(S213) 16.8±1.8	15(S146)-18(S80) 16.9±1.5
	1	> 18 days	0	0	0
	2	15-18 days	30(100%)	58(100%)	238(100%)
	3	< 15 days	0	0	0
Growth periods		141(S189)-178(S216) (163.3±15.1)	142(S67)-169(S9) 158.7±15.2	146(S101)-173(S17) 161.4±14.3	141(S189)-178(S216) 164.2±15.3
	1	> 180 days	0	0	0
	2	150-180 days	24(80%)	55(94.83%)	224(94.12%)
	3	< 150 days	6(20%)	3(5.17%)	14(5.88%)
Percent of Threshing		73(S216)- 98(S135) (84.3±6.9)	78(S123)-97(S96) 81.7±6.5	80(S102)-98(S135) 83.8±7.3	73(S216)-96(S170) 85.2±6.8
	1	>70%	30(100%)	58(100%)	238(100%)
	2	50-70%	0	0	0
	3	< 50%	0	0	0
Grain number		759(S21)-1383(S103) (874.3±49.9)	782(S159)-1305(S9) 892.7±42.6	759(S21)-1284(S227) 887.8±48.3	792(S179)-1383(S103) 856.2±52.8
	1	> 1000 grains	2(6.67%)	3 (5.12%)	18 (7.56%)
	2	700-1000 grains	28(93.33%)	55 (94.88%)	220 (92.44%)
	3	500-700 grains	0	0	0
	4	< 500 grains	0	0	0
Harvest index		32(S189)- 49.7(S26) (45.3±4.1)	41(S49)-49(S10) 43.7±3.6	39(S137)-48(S6) 43.8±4.3	32(S189)-49.7(S26) 46.2±4.8
	1	> 80%	0	0	0
	2	50-80%	0	0	0
	3	< 50%	30(100%)	58(100%)	238(100%)
Germination period		5(S2,S177,S228)-8(S142,S46,S210) (6.1±1.25)	5(S2)-8(S142) 5.7±1.2	5(S177)-8(S46) 5.8±1.3	5(S228)-8(S210) 6.2±1.3
	1	> 8 days	0	0	0
	2	5-8 days	30(100%)	58(100%)	238(100%)
	3	< 5 days	0	0	0
Capacity		31(S255)- 48(S191) (46.0±3.15)	32(S49)-46(S11) 43.7±3.2	36 (S147)-47(S262) 45.8±3.6	31(S255)-48(S191) 46.2±3.3
	1	0-30 g	0	0	0
	2	30-50 g	30(100%)	58(100%)	238(100%)
	3	> 50 g	0	0	0
Ratio of leaf width/length		4.2(S88)- 8.2(S303) (4.7±0.45)	4.2(S88)-5.9(S110) 4.7±0.35	4.3 (S157)-7.3(S94) 5.1±0.62	5.2(S59)-8.2(S303) 6.2±0.53
	1	> 70%	0	0	0
	2	50-70%	0	0	0
	3	<50%	30(100%)	58(100%)	238(100%)
Flowering period		1(S52)- 5(S166,S111) (2.9±0.35)	1(S52)-3(S142) 2.1±0.25	2(S192)-5(S166) 3.1±0.42	1(S235)-5(S111) 3.2±0.33
	1	> 8 days	0	0	0
	2	5-8 days	0	0	0
	3	< 5 days	30(100%)	58(100%)	238(100%)

Qualitative Trait

Spike type	192 landraces (58.9%): no branches, 133 landraces (40.8%): with branches, 1 landrace (3.33%) landraces: many branches.			
	1	Many branches	1(3.33%)	0
	2	With branches	12(40%)	39(67.24%)
				82(34.45%)

	3	No branches	17(56.67%)	19(32.76%)	156(65.55%)
Spike color		210 landraces (64.42%) are yellow, 16 landraces (4.91%) are deep yellow, 69 landraces (21.16%) are orange, 1 landrace (0.31%) is light coral, 11 landraces (3.37%) are dark red, 7 landraces (2.15%) are coffee, 12 landraces (3.68%) are black.			
	1	Yellow	3(10%)	9(15.51%)	198(83.19%)
	2	Deep yellow	4(13.33%)	4(6.90%)	8(3.36%)
	3	Orange	3(10%)	36(62.07%)	30(12.61%)
	4	Light coral	0	1(1.72%)	0
	5	Dark red	2(6.67%)	8(13.79%)	1(0.42%)
	6	Coffee	6(20%)	0	1(0.42%)
	7	Black	12(40%)	0	0
Seedling color		Most landraces are in light-green seedling color.			
	1	Green	1(3.33%)	0	2(0.84%)
	2	light-green	29(96.67%)	57(98.28%)	236(99.16%)
	3	Light-Purple	0	1(1.72%)	0
Inflorescence bristle		All landraces have their inflorescence with many bristles.			
	1	With many bristles	30(100%)	58(100%)	238(100%)
	2	With few bristles	0	0	0
	3	No bristle	0	0	0
Degree of lodging at maturity		All landraces have low lodging.			
Extensive	1	Over 1/3 area lodging in the nine squares	0	0	0
Medium	2	Over 1/9 area lodging in the nine squares	30(100%)	58(100%)	238(100%)
Very slight	3	No lodging	0	0	0
Anther color		All landraces have yellow anther color.			
	1	Yellow	30(100%)	58(100%)	238(100%)
	2	White	0	0	0
	3	Purple	0	0	0
Millet quality		305 landraces (93.56%) have waxy millet.			
	1	Waxy	20(66.67%)	50(86.21%)	235(98.74%)
	2	Medium	0	0	0
	3	Non-waxy	10(33.33%)	8(13.79%)	3(1.26%)
Leaf color		All landraces have green leaves.			
	1	Green	30(100%)	58(100%)	238(100%)
	2	Purple-green	0	0	0
	3	Purple	0	0	0
Blade pubescence		318 landraces are strongly pubescent in their leaves.			
	1	Strongly pubescent	29(96.67%)	58(100%)	231(97.06%)
	2	Medium pubescent	1(3.33%)	0	7(2.94%)
	3	Essentially glabrous	0	0	0
Stem pubescence		All landraces are strongly pubescent in stems.			
	1	Strongly pubescent	30(100%)	58(100%)	238(100%)
	2	Medium pubescent	0	0	0
	3	Essentially glabrous	0	0	0
Leaf shape		322 landraces have their leaves in sword shape.			
	1	Sword shape	30(100%)	56(96.55%)	236(99.16%)
	2	Short drooping shape	0	2(3.45%)	0
	3	Long drooping shape	0	0	2(0.84%)
Vein color		All landraces have green vein color.			
	1	Yellow	0	0	0
	2	Green	30(100%)	58(100%)	238(100%)
	3	Light purple	0	0	0
Insect damage		All landraces have slight insect damage.			
	1	serious	0	0	0
	2	slight	30(100%)	58(100%)	238(100%)
	3	no	0	0	0
Disease		All landraces have slight disease.			

1	serious	0	0	0
2	slight	30(100%)	58(100%)	238(100%)
3	no	0	0	0

SD: standard deviation for statistic. S-number: number of foxtail millet landrace.

Supplementary Table S2. Accession number of *Setaria italica* vouchers.

No	Tribe	Ac. No.	Lat.(°N)	Long.(°E)	No	Tribe	Ac. No.	Lat.(°N)	Long.(°E)
1	Puyuma	NCKU.S.I.001	22.44.	121.01.	6	Paiwan	NCKU.S.I.006	22.27.	120.53.
2	Puyuma	NCKU.S.I.002	22.44.	121.03.	7	Paiwan	NCKU.S.I.007	22.25.	120.51.
3	Puyuma	NCKU.S.I.003	22.35.	121.00.	8	Paiwan	NCKU.S.I.008	22.24.	120.51.
4	Puyuma	NCKU.S.I.004	22.43.	121.03.	9	Paiwan	NCKU.S.I.009	22.23.	120.54.
5	Puyuma	NCKU.S.I.005	22.31.	120.57.	10	Paiwan	NCKU.S.I.010	22.19.	120.53.
33	Puyuma	NCKU.S.I.033	22.46.	121.04.	12	Paiwan	NCKU.S.I.012	22.21.	120.53.
34	Puyuma	NCKU.S.I.034	22.47.	121.04.	14	Paiwan	NCKU.S.I.014	22.12.	120.44.
35	Puyuma	NCKU.S.I.035	22.48.	121.03.	15	Paiwan	NCKU.S.I.015	22.07.	120.51.
38	Puyuma	NCKU.S.I.038	22.57.	121.09.	16	Paiwan	NCKU.S.I.016	22.12.	120.50.
39	Puyuma	NCKU.S.I.039	22.57.	121.09.	17	Paiwan	NCKU.S.I.017	22.07.	120.46.
113	Puyuma	NCKU.S.I.113	22.35.	120.58.	18	Paiwan	NCKU.S.I.018	21.59.	120.48.
114	Puyuma	NCKU.S.I.114	22.44.	121.03.	19	Paiwan	NCKU.S.I.019	22.31.	120.38.
115	Puyuma	NCKU.S.I.115	22.35.	120.57.	20	Paiwan	NCKU.S.I.020	22.00.	120.49.
116	Puyuma	NCKU.S.I.116	22.45.	121.07.	21	Paiwan	NCKU.S.I.021	22.40.	120.43.
117	Puyuma	NCKU.S.I.117	22.31.	120.55.	22	Paiwan	NCKU.S.I.022	22.40.	120.41.
226	Puyuma	NCKU.S.I.226	22.41.	121.00.	23	Paiwan	NCKU.S.I.023	22.35.	120.41.
228	Puyuma	NCKU.S.I.228	22.36.	120.59.	24	Paiwan	NCKU.S.I.024	22.31.	120.39.
11	Ruikai	NCKU.S.I.011	22.15.	120.53.	25	Paiwan	NCKU.S.I.025	22.22.	120.39.
13	Ruikai	NCKU.S.I.013	22.16.	120.51.	26	Paiwan	NCKU.S.I.026	22.26.	120.38.
27	Ruikai	NCKU.S.I.027	22.44.	120.42.	30	Paiwan	NCKU.S.I.030	22.47.	120.39.
28	Ruikai	NCKU.S.I.028	22.45.	120.43.	31	Paiwan	NCKU.S.I.031	22.46.	120.42.
29	Ruikai	NCKU.S.I.029	22.45.	120.46.	32	Paiwan	NCKU.S.I.032	22.34.	120.39.
122	Ruikai	NCKU.S.I.122	22.18.	120.53.	118	Paiwan	NCKU.S.I.118	22.26.	120.52.
123	Ruikai	NCKU.S.I.123	22.16.	120.49.	119	Paiwan	NCKU.S.I.119	22.23.	120.51.
125	Ruikai	NCKU.S.I.125	22.16.	120.51.	120	Paiwan	NCKU.S.I.120	22.23.	120.51.
139	Ruikai	NCKU.S.I.139	22.45.	120.45.	121	Paiwan	NCKU.S.I.121	22.21.	120.54.
140	Ruikai	NCKU.S.I.140	22.43.	120.45.	124	Paiwan	NCKU.S.I.124	22.21.	120.51.
234	Ruikai	NCKU.S.I.234	22.17.	120.53.	126	Paiwan	NCKU.S.I.126	22.12.	120.45.
235	Ruikai	NCKU.S.I.235	22.16.	120.51.	127	Paiwan	NCKU.S.I.127	22.07.	120.50.
237	Ruikai	NCKU.S.I.237	22.17.	120.51.	128	Paiwan	NCKU.S.I.128	22.08.	120.48.
246	Ruikai	NCKU.S.I.246	22.45.	120.43.	129	Paiwan	NCKU.S.I.129	22.30.	120.50.
251	Ruikai	NCKU.S.I.251	22.45.	120.45.	130	Paiwan	NCKU.S.I.130	22.30.	120.50.
252	Ruikai	NCKU.S.I.252	22.45.	120.43.	131	Paiwan	NCKU.S.I.131	22.31.	120.38.
257	Ruikai	NCKU.S.I.257	22.45.	120.45.	132	Paiwan	NCKU.S.I.132	22.00.	120.49.
258	Ruikai	NCKU.S.I.258	22.45.	120.43.	133	Paiwan	NCKU.S.I.133	22.41.	120.38.
50	Yami	NCKU.S.I.050	22.01.	121.33.	134	Paiwan	NCKU.S.I.134	22.40.	120.40.
58	Yami	NCKU.S.I.058	22.03.	121.33.	135	Paiwan	NCKU.S.I.135	22.42.	120.36.
59	Yami	NCKU.S.I.059	22.03.	121.31.	136	Paiwan	NCKU.S.I.136	22.31.	120.40.
60	Yami	NCKU.S.I.060	22.01.	121.33.	137	Paiwan	NCKU.S.I.137	22.21.	120.40.
61	Yami	NCKU.S.I.061	22.03.	121.31.	138	Paiwan	NCKU.S.I.138	22.26.	120.40.
62	Yami	NCKU.S.I.062	22.03.	121.33.	141	Paiwan	NCKU.S.I.141	22.42.	120.39.
64	Yami	NCKU.S.I.064	22.03.	121.30.	142	Paiwan	NCKU.S.I.142	22.49.	120.39.
98	Yami	NCKU.S.I.098	22.03.	121.30.	143	Paiwan	NCKU.S.I.143	22.46.	120.42.
107	Tsou	NCKU.S.I.107	23.20.	120.41.	144	Paiwan	NCKU.S.I.144	22.34.	120.37.
170	Tsou	NCKU.S.I.170	23.31.	120.44.	145	Paiwan	NCKU.S.I.145	22.46.	120.42.
171	Tsou	NCKU.S.I.171	23.20.	120.40.	146	Paiwan	NCKU.S.I.146	22.34.	120.37.
218	Tsou	NCKU.S.I.218	23.31.	120.44.	225	Paiwan	NCKU.S.I.225	22.28.	120.54.
219	Tsou	NCKU.S.I.219	23.23.	120.40.	227	Paiwan	NCKU.S.I.227	22.28.	120.54.
282	Tsou	NCKU.S.I.282	23.17.	120.39.	229	Paiwan	NCKU.S.I.229	22.27.	120.52.
283	Tsou	NCKU.S.I.283	23.28.	120.42.	230	Paiwan	NCKU.S.I.230	22.25.	120.52.
316	Tsou	NCKU.S.I.316	23.21.	120.40.	231	Paiwan	NCKU.S.I.231	22.22.	120.51.
317	Tsou	NCKU.S.I.317	23.25.	120.47.	232	Paiwan	NCKU.S.I.232	22.24.	120.55.
278	Thao	NCKU.S.I.278	23.53.	120.57.	233	Paiwan	NCKU.S.I.233	22.22.	120.54.
214	Thao	NCKU.S.I.214	23.54.	120.56.	236	Paiwan	NCKU.S.I.236	22.20.	120.53.
63	Amis	NCKU.S.I.063	22.58.	121.06.	238	Paiwan	NCKU.S.I.238	22.11.	120.45.
104	Amis	NCKU.S.I.104	23.19.	121.27.	239	Paiwan	NCKU.S.I.239	22.10.	120.50.
108	Amis	NCKU.S.I.108	24.05.	121.32.	240	Paiwan	NCKU.S.I.240	22.07.	120.47.
110	Amis	NCKU.S.I.110	22.00.	121.11.	241	Paiwan	NCKU.S.I.241	22.10.	120.50.
111	Amis	NCKU.S.I.111	22.54.	121.04.	242	Paiwan	NCKU.S.I.242	22.06.	120.52.
168	Amis	NCKU.S.I.168	23.19.	121.26.	243	Paiwan	NCKU.S.I.243	22.26.	120.38.
172	Amis	NCKU.S.I.172	23.59.	121.36.	244	Paiwan	NCKU.S.I.244	22.01.	120.50.
174	Amis	NCKU.S.I.174	22.59.	121.17.	245	Paiwan	NCKU.S.I.245	22.40.	120.41.
175	Amis	NCKU.S.I.175	22.52.	121.04.	247	Paiwan	NCKU.S.I.247	22.42.	120.39.
216	Amis	NCKU.S.I.216	23.13.	121.17.	248	Paiwan	NCKU.S.I.248	22.42.	120.39.
220	Amis	NCKU.S.I.220	23.57.	121.34.	249	Paiwan	NCKU.S.I.249	22.29.	120.37.
222	Amis	NCKU.S.I.222	23.00.	121.16.	250	Paiwan	NCKU.S.I.250	22.31.	120.41.
223	Amis	NCKU.S.I.223	22.54.	121.03.	253	Paiwan	NCKU.S.I.253	22.43.	120.39.
280	Amis	NCKU.S.I.280	22.00.	121.07.	254	Paiwan	NCKU.S.I.254	22.49.	120.38.
284	Amis	NCKU.S.I.284	23.51.	121.33.	255	Paiwan	NCKU.S.I.255	22.44.	120.38.
286	Amis	NCKU.S.I.286	22.58.	121.15.	256	Paiwan	NCKU.S.I.256	22.35.	120.39.
291	Amis	NCKU.S.I.291	23.51.	121.33.	259	Paiwan	NCKU.S.I.259	22.43.	120.39.
293	Amis	NCKU.S.I.293	22.58.	121.15.	290	Paiwan	NCKU.S.I.290	22.35.	120.39.
314	Amis	NCKU.S.I.314	22.00.	121.07.	36	Atayal	NCKU.S.I.036	24.10.	120.58.
320	Amis	NCKU.S.I.320	22.52.	121.13.	37	Atayal	NCKU.S.I.037	24.10.	120.52.
318	Amis	NCKU.S.I.318	23.22.	121.28.	40	Atayal	NCKU.S.I.040	24.38.	121.16.
294	Atayal	NCKU.S.I.294	24.12.	121.00.	304	Atayal	NCKU.S.I.304	24.19.	121.17.
296	Atayal	NCKU.S.I.296	24.40.	121.20.	306	Atayal	NCKU.S.I.306	24.15.	121.15.
298	Atayal	NCKU.S.I.298	24.40.	121.20.	307	Atayal	NCKU.S.I.307	24.40.	121.14.
299	Atayal	NCKU.S.I.299	24.10.	120.53.	309	Atayal	NCKU.S.I.309	24.34.	121.06.

300	Atayal	NCKU.S.I.300	24.20.	121.18.	310	Atayal	NCKU.S.I.310	24.41.	121.22.
303	Atayal	NCKU.S.I.303	24.34.	121.40.	311	Atayal	NCKU.S.I.311	24.39.	121.21.
42	Bunun	NCKU.S.I.042	24.05.	121.13.	57	Atayal	NCKU.S.I.057	24.43.	121.09.
44	Bunun	NCKU.S.I.044	23.29.	120.53.	84	Atayal	NCKU.S.I.084	24.10.	120.58.
47	Bunun	NCKU.S.I.047	23.35.	120.53.	85	Atayal	NCKU.S.I.085	24.15.	121.12.

No	Tribe	Ac. No.	Lat.(°N)	Long.(°E)	No	Tribe	Ac. No.	Lat.(°N)	Long.(°E)
54	Bunun	NCKU.S.I.054	23.47.	120.56.	86	Atayal	NCKU.S.I.086	24.10.	120.58.
90	Bunun	NCKU.S.I.090	23.47.	120.56.	87	Atayal	NCKU.S.I.087	24.15.	121.12.
92	Bunun	NCKU.S.I.092	23.32.	120.55.	88	Atayal	NCKU.S.I.088	24.15.	121.12.
95	Bunun	NCKU.S.I.095	23.37.	120.52.	89	Atayal	NCKU.S.I.089	24.09.	120.57.
102	Bunun	NCKU.S.I.102	23.40.	120.52.	91	Atayal	NCKU.S.I.091	24.26.	121.47.
106	Bunun	NCKU.S.I.106	23.16.	120.43.	93	Atayal	NCKU.S.I.093	24.24.	121.40.
109	Bunun	NCKU.S.I.109	23.13.	120.50.	94	Atayal	NCKU.S.I.094	24.40.	121.35.
112	Bunun	NCKU.S.I.112	23.31.	120.51.	96	Atayal	NCKU.S.I.096	24.18.	121.17.
154	Bunun	NCKU.S.I.154	24.12.	121.17.	97	Atayal	NCKU.S.I.097	24.41.	121.13.
156	Bunun	NCKU.S.I.156	23.40.	120.52.	99	Atayal	NCKU.S.I.099	24.33.	121.08.
159	Bunun	NCKU.S.I.159	23.37.	120.53.	100	Atayal	NCKU.S.I.100	24.46.	121.19.
162	Bunun	NCKU.S.I.162	23.14.	120.41.	101	Atayal	NCKU.S.I.101	24.39.	121.20.
166	Bunun	NCKU.S.I.166	23.40.	120.59.	103	Atayal	NCKU.S.I.103	24.34.	121.05.
173	Bunun	NCKU.S.I.173	22.55.	120.44.	105	Atayal	NCKU.S.I.105	24.42.	121.12.
176	Bunun	NCKU.S.I.176	23.31.	120.51.	147	Atayal	NCKU.S.I.147	24.11.	120.59.
204	Bunun	NCKU.S.I.204	23.35.	120.53.	148	Atayal	NCKU.S.I.148	24.11.	120.59.
207	Bunun	NCKU.S.I.207	23.37.	120.52.	150	Atayal	NCKU.S.I.150	24.40.	121.20.
210	Bunun	NCKU.S.I.210	23.16.	120.43.	151	Atayal	NCKU.S.I.151	24.17.	120.54.
221	Bunun	NCKU.S.I.221	23.12.	120.49.	152	Atayal	NCKU.S.I.152	24.40.	121.20.
224	Bunun	NCKU.S.I.224	23.31.	120.54.	153	Atayal	NCKU.S.I.153	24.17.	120.54.
263	Bunun	NCKU.S.I.263	23.31.	120.54.	155	Atayal	NCKU.S.I.155	24.26.	121.46.
268	Bunun	NCKU.S.I.268	23.35.	120.53.	157	Atayal	NCKU.S.I.157	24.25.	121.21.
271	Bunun	NCKU.S.I.271	23.46.	120.56.	158	Atayal	NCKU.S.I.158	24.40.	121.35.
274	Bunun	NCKU.S.I.274	23.16.	120.43.	160	Atayal	NCKU.S.I.160	24.14.	121.13.
285	Bunun	NCKU.S.I.285	23.13.	120.41.	161	Atayal	NCKU.S.I.161	24.40.	121.12.
287	Bunun	NCKU.S.I.287	23.02.	120.48.	163	Atayal	NCKU.S.I.163	24.33.	121.08.
288	Bunun	NCKU.S.I.288	23.40.	120.50.	164	Atayal	NCKU.S.I.164	24.46.	121.19.
292	Bunun	NCKU.S.I.292	23.13.	120.41.	165	Atayal	NCKU.S.I.165	24.39.	121.23.
297	Bunun	NCKU.S.I.297	24.04.	121.12.	167	Atayal	NCKU.S.I.167	24.35.	121.08.
302	Bunun	NCKU.S.I.302	23.35.	120.53.	169	Atayal	NCKU.S.I.169	24.44.	121.15.
305	Bunun	NCKU.S.I.305	23.47.	120.56.	177	Atayal	NCKU.S.I.177	24.40.	121.23.
308	Bunun	NCKU.S.I.308	23.16.	120.43.	178	Atayal	NCKU.S.I.178	24.42.	121.21.
319	Bunun	NCKU.S.I.319	23.14.	120.41.	179	Atayal	NCKU.S.I.179	24.41.	121.24.
321	Bunun	NCKU.S.I.321	23.04.	120.42.	180	Atayal	NCKU.S.I.180	24.42.	121.21.
322	Bunun	NCKU.S.I.322	23.48.	120.50.	181	Atayal	NCKU.S.I.181	24.42.	121.21.
323	Bunun	NCKU.S.I.323	23.16.	120.49.	182	Atayal	NCKU.S.I.182	24.44.	121.22.
324	Bunun	NCKU.S.I.324	23.41.	120.51.	183	Atayal	NCKU.S.I.183	24.44.	121.20.
65	Saisiat	NCKU.S.I.065	24.22.	121.02.	184	Atayal	NCKU.S.I.184	24.49.	121.23.
66	Saisiat	NCKU.S.I.066	24.36.	121.02.	185	Atayal	NCKU.S.I.185	24.48.	121.21.
67	Saisiat	NCKU.S.I.067	24.31.	120.55.	186	Atayal	NCKU.S.I.186	24.49.	121.20.
68	Saisiat	NCKU.S.I.068	24.31.	120.57.	187	Atayal	NCKU.S.I.187	24.48.	121.18.
69	Saisiat	NCKU.S.I.069	24.31.	120.57.	188	Atayal	NCKU.S.I.188	24.48.	121.34.
70	Saisiat	NCKU.S.I.070	24.32.	120.58.	189	Atayal	NCKU.S.I.189	24.48.	121.35.
71	Saisiat	NCKU.S.I.071	24.32.	121.02.	190	Atayal	NCKU.S.I.190	24.45.	121.34.
72	Saisiat	NCKU.S.I.072	24.32.	121.01.	191	Atayal	NCKU.S.I.191	24.47.	121.33.
73	Saisiat	NCKU.S.I.073	24.32.	121.01.	192	Atayal	NCKU.S.I.192	24.48.	121.30.
74	Saisiat	NCKU.S.I.074	24.33.	121.02.	193	Atayal	NCKU.S.I.193	24.47.	121.33.
75	Saisiat	NCKU.S.I.075	24.35.	121.01.	194	Atayal	NCKU.S.I.194	24.48.	121.30.
76	Saisiat	NCKU.S.I.076	24.22.	120.58.	195	Atayal	NCKU.S.I.195	24.47.	121.33.
77	Saisiat	NCKU.S.I.077	24.22.	120.58.	196	Atayal	NCKU.S.I.196	24.48.	121.30.
78	Saisiat	NCKU.S.I.078	24.34.	121.00.	198	Atayal	NCKU.S.I.198	24.39.	121.19.
79	Saisiat	NCKU.S.I.079	24.28.	120.58.	199	Atayal	NCKU.S.I.199	24.11.	120.55.
80	Saisiat	NCKU.S.I.080	24.24.	120.58.	200	Atayal	NCKU.S.I.200	24.39.	121.19.
81	Saisiat	NCKU.S.I.081	24.34.	121.00.	201	Atayal	NCKU.S.I.201	24.11.	120.55.
82	Saisiat	NCKU.S.I.082	24.28.	120.58.	202	Atayal	NCKU.S.I.202	24.10.	120.52.
83	Saisiat	NCKU.S.I.083	24.24.	120.58.	203	Atayal	NCKU.S.I.203	24.26.	121.45.
149	Saisiat	NCKU.S.I.149	24.24.	120.58.	205	Atayal	NCKU.S.I.205	24.26.	121.22.
197	Saisiat	NCKU.S.I.197	24.29.	121.04.	206	Atayal	NCKU.S.I.206	24.32.	121.29.
295	Saisiat	NCKU.S.I.295	24.25.	120.57.	209	Atayal	NCKU.S.I.209	24.40.	121.12.
261	Saisiat	NCKU.S.I.261	24.28.	121.03.	212	Atayal	NCKU.S.I.212	24.43.	121.21.
262	Saisiat	NCKU.S.I.262	24.28.	121.03.	213	Atayal	NCKU.S.I.213	24.38.	121.24.
41	Atayal	NCKU.S.I.041	24.10.	120.56.	215	Atayal	NCKU.S.I.215	24.34.	121.18.
43	Atayal	NCKU.S.I.043	24.19.	121.44.	217	Atayal	NCKU.S.I.217	24.43.	121.15.
45	Atayal	NCKU.S.I.045	24.27.	121.48.	260	Atayal	NCKU.S.I.260	24.12.	121.01.
46	Atayal	NCKU.S.I.046	24.32.	121.30.	264	Atayal	NCKU.S.I.264	24.39.	121.19.
48	Atayal	NCKU.S.I.048	24.19.	121.17.	265	Atayal	NCKU.S.I.265	24.10.	120.54.
49	Atayal	NCKU.S.I.049	24.41.	121.13.	266	Atayal	NCKU.S.I.266	24.19.	121.18.
51	Atayal	NCKU.S.I.051	24.36.	121.03.	267	Atayal	NCKU.S.I.267	24.25.	121.44.
52	Atayal	NCKU.S.I.052	24.46.	121.19.	269	Atayal	NCKU.S.I.269	24.34.	121.29.
53	Atayal	NCKU.S.I.053	24.39.	121.20.	270	Atayal	NCKU.S.I.270	24.17.	121.16.
55	Atayal	NCKU.S.I.055	24.34.	121.05.	272	Atayal	NCKU.S.I.272	24.15.	121.14.
56	Atayal	NCKU.S.I.056	24.43.	121.09.	273	Atayal	NCKU.S.I.273	24.40.	121.16.

312	Atayal	NCKU.S.I.312	24.40.	121.21.	275	Atayal	NCKU.S.I.275	24.33.	121.05.
313	Atayal	NCKU.S.I.313	24.47.	121.20.	276	Atayal	NCKU.S.I.276	24.42.	121.22.
315	Atayal	NCKU.S.I.315	24.35.	121.06.	277	Atayal	NCKU.S.I.277	24.38.	121.24.
208	Atayal	NCKU.S.I.208	24.14.	121.14.	279	Atayal	NCKU.S.I.279	24.48.	121.19.
211	Atayal	NCKU.S.I.211	24.36.	121.06.	281	Atayal	NCKU.S.I.281	24.43.	121.13.
301	Atayal	NCKU.S.I.301	24.28.	121.46.	289	Atayal	NCKU.S.I.289	24.41.	121.23.
OG*	CHINA	NCKU.S.I.C01	-	-	OG*	ARES	NCKU.S.I.A01	-	-

Different landraces of *Setaria italica* were collected from different places in Taiwan. GPS coordinates are provided. All samples in this research were collected by H.-S. Lin and deposited in the Institute of Biodiversity, Department of Life Science, National Cheng Kung University, Taiwan. * OG: Out-Group foxtail millets. The outgroup CHINA was *Setaria viridis*. The outgroup ARES was *Setaria verticillata*.

Supplementary Table S3. Environment conditions for morphological assessment of field experiments.

Year	Mean Temperature (°C)	Mean Humidity (%)	Mean Days of Precipitation (days/month)	Average Sunshine hours (hours/month)	Average Rainfall (mm)
2007*	21.52	75.4	7.4	176.9	73.12
2008*	20.4	80.2	7.2	153.16	31.16
2009*	21.08	81.2	5	176.26	40.86
2010*	21.28	76	8	162.28	50.6

* Indicating the environment conditions recorded during January to May in the year.

Supplementary Table S4. The definition index of agronomic and phenotypic traits.

Agronomic and phenotypic traits	
Quantitative Trait	Descriptions
Plant Height	After flowering, ten individuals were chosen in every plot (3.3057 square meters X 3.5) randomly for measuring the distance from the base of the plant at ground level to the top of the highest panicle of a mature plant, measured in centimeters.
Spike length	Ten days after the spike mature, ten individuals were chosen in every plot randomly for measuring the distance from the base of the spikelet to the top of it, measured in centimeters.
Blade length of flag leaf	Ten individuals were chosen in every plot randomly to calculate the average length of the blade of a mature plant, measured in centimeters.
Blade width of flag leaf	Ten individuals were chosen in every plot randomly to calculate the average width of the blade for a mature plant, measured in centimeters.
Stem width	Ten individuals were chosen in every plot randomly to calculate the average width of the stem for a mature plant, measured in centimeters.
Internode length	Ten individuals were chosen in every plot randomly to calculate the average distance between stem nodes of a mature plant, measured in centimeters.
Germination rate	The test was applied to calculate the proportion of seeds in 100 mature seeds that are likely to germinate (20°C). Germination means the sprouting of the seedling from a seed, including the sprouting of root or the first blade.
Plant survival at maturity	After germination test, the survival portion was calculated for percentage. The growth condition is at around 25°C.
Spike weight	Ten days after the spike mature, ten individuals were chosen in every plot randomly for measuring the spike weight per spike, measured in grams.
Grain weight	After detaching the plant, ten individuals were chosen in every plot randomly for measuring the grain weight per 1000 grains, measured in grams.
Days to Heading	After the spikelet grows to be higher than the sword leaf, ten individuals were chosen in every plot randomly for calculating the days of the emergence of a head from the sheath of the upper leaf, measured in days.
Growth periods	Ten individuals were chosen in every plot randomly for calculating the days during seed germination to mature of whole plant, measured in days.
Percent of Threshing	After separating the seed from a spike, ten individuals were chosen in every plot randomly for calculating the rate of threshing, measured in percentage.
Grain number	After maturing of the plant, ten individuals were chosen in every plot randomly for calculating total number of grains in a spike, measured in grains.
Harvest index	The harvest index (HI) was calculated as a measurement of crop yield. Ten individuals were chosen in every plot randomly to calculate the weight of a harvested product as a percentage of the total plant weight of a crop, measured in percentage (HI=economic yield/biomass).

Germination period	Ten individuals were chosen in every plot randomly to calculate the days from sowing to the sprouting of the first leaf sheath from a seed, measured in days at 20°C.
Capacity	Ten individuals were chosen in every plot randomly to calculate the grain weight of grains in total volume of 100 milliliter, measured in grams.
Ratio of leaf width/length	Ten individuals were chosen in every plot randomly to calculate the ratio of leaf width divided by length (the third leaf), measured in percentage.
Flowering period	Ten individuals were chosen in every plot randomly to calculate the days from the first flower to blossom to the last flower to blossom, measured in days.
Qualitative Trait	Descriptions
Spike type	Ten individuals were chosen in every plot randomly to record the branch extent of the spikes.
Spike color	Ten individuals were chosen in every plot randomly to record the color of the mature spike.
Seedling color	Ten individuals were chosen in every plot randomly to record the color of the seedling.
Inflorescence bristle	Ten individuals were chosen in every plot randomly to record the portion of awn, which was bristle-like appendage on a spike, measured in percentage.
Degree of lodging at maturity	We divided the test area in to squares, and we use the Grid (nine squares) methods to calculate the falling down extent of millets in the field. (High lodging: More than 1/3 area lodging in the nine squares; Low lodging: More than 1/9 area lodging in the nine squares; No lodging)
Anther color	Ten individuals were chosen in every plot randomly to record the color of the anther on the spikelet.
Millet quality	Grains of landraces are analyzed to calculate the waxy degree by Rapid Viscometer.
Leaf color	Ten individuals were chosen in every plot randomly to record the color leaves.(according to the leaf color card)
Blade pubescence	Ten individuals were chosen in every plot randomly to calculate the extent of the pubescence on the blades.
Stem pubescence	Ten individuals were chosen in every plot randomly to calculate the extent of the pubescence on the stems.
Leaf shape	Ten individuals were chosen in every plot randomly to the recorded the shape of leaves.(according to the leaf shape card)
Vein color	The vein color on 10th blade under top leaf in stem.
Insect damage	Ten individuals were chosen in every plot randomly to calculate the damage extent caused by insects.
Disease	Ten individuals were chosen in every plot randomly to calculate the damage extent caused by disease.

Supplementary Table S5. UPGMA clustering of *Setaria italica* using microsatellites with ethnic groups.

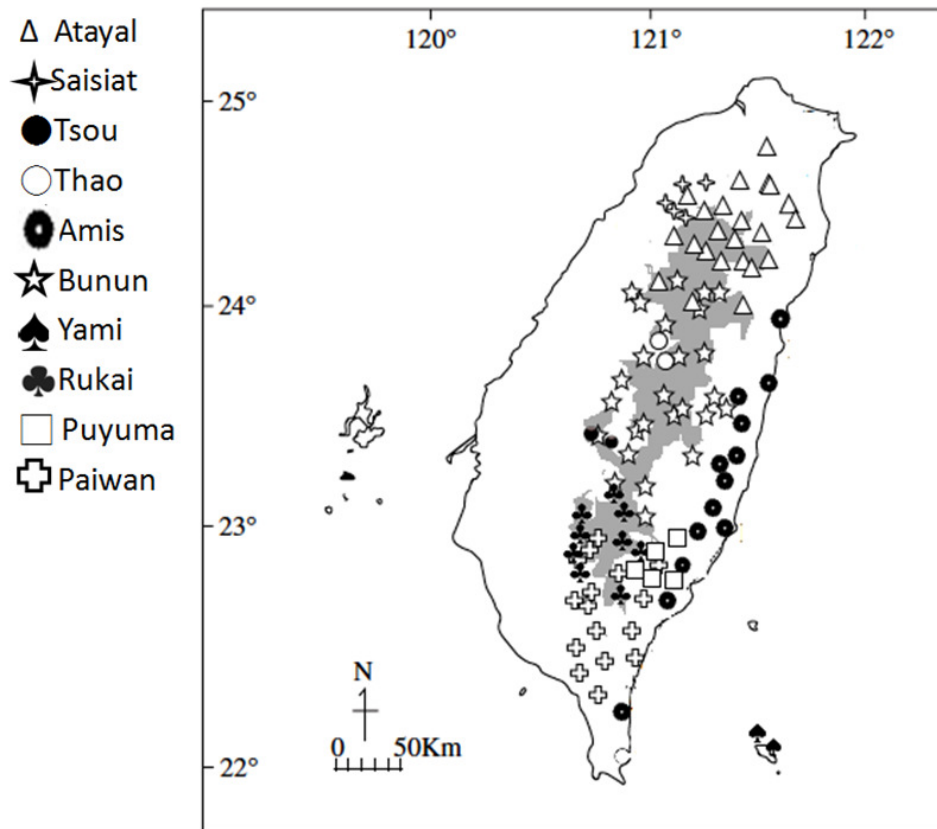
No	Group	Ethnic group	No	Group	Ethnic group	No	Group	Ethnic group	No	Group	Ethnic group
300	1	Atayal	97	2	Atayal	221	2	Bunun	129	3	Paiwan
266	1	Atayal	49	2	Atayal	173	2	Bunun	17	3	Paiwan
202	1	Atayal	298	2	Atayal	109	2	Bunun	240	3	Paiwan
85	1	Atayal	264	2	Atayal	323	2	Bunun	128	3	Paiwan
37	1	Atayal	200	2	Atayal	321	2	Bunun	16	3	Paiwan
299	1	Atayal	152	2	Atayal	287	2	Bunun	239	3	Paiwan
265	1	Atayal	88	2	Atayal	158	2	Atayal	127	3	Paiwan
201	1	Atayal	40	2	Atayal	94	2	Atayal	15	3	Paiwan
153	1	Atayal	77	2	Saisiat	46	2	Atayal	238	3	Paiwan
89	1	Atayal	76	2	Saisiat	303	2	Atayal	126	3	Paiwan
294	1	Atayal	79	2	Saisiat	157	2	Atayal	14	3	Paiwan
260	1	Atayal	80	2	Saisiat	93	2	Atayal	237	3	Rukai
196	1	Atayal	78	2	Saisiat	45	2	Atayal	125	3	Rukai
148	1	Atayal	75	2	Saisiat	203	2	Atayal	13	3	Rukai
84	1	Atayal	74	2	Saisiat	155	2	Atayal	235	3	Rukai
36	1	Atayal	73	2	Saisiat	91	2	Atayal	123	3	Rukai
306	1	Atayal	72	2	Saisiat	43	2	Atayal	11	3	Rukai
272	1	Atayal	71	2	Saisiat	223	2	Amis	234	3	Rukai
208	1	Atayal	70	2	Saisiat	175	2	Amis	122	3	Rukai
160	1	Atayal	69	2	Saisiat	111	2	Amis	10	3	Paiwan
96	1	Atayal	68	2	Saisiat	63	2	Amis	236	3	Paiwan
48	1	Atayal	66	2	Saisiat	320	2	Amis	124	3	Paiwan
304	1	Atayal	67	2	Saisiat	286	2	Amis	12	3	Paiwan
270	1	Atayal	65	2	Saisiat	222	2	Amis	233	3	Paiwan
205	1	Atayal	295	2	Saisiat	174	2	Amis	121	3	Paiwan
206	1	Atayal	261	2	Saisiat	110	2	Amis	9	3	Paiwan
301	1	Atayal	197	2	Saisiat	314	2	Amis	232	3	Paiwan
269	1	Atayal	149	2	Saisiat	280	2	Amis	231	3	Paiwan
267	1	Atayal	81	2	Saisiat	216	2	Amis	120	3	Paiwan
189	2	Atayal	82	2	Saisiat	168	2	Amis	119	3	Paiwan
188	2	Atayal	83	2	Saisiat	104	2	Amis	8	3	Paiwan
191	2	Atayal	86	2	Atayal	318	2	Amis	7	3	Paiwan
192	2	Atayal	87	2	Atayal	284	2	Amis	230	3	Paiwan
190	2	Atayal	147	2	Atayal	220	2	Amis	118	3	Paiwan
187	2	Atayal	150	2	Atayal	172	2	Amis	6	3	Paiwan
186	2	Atayal	151	2	Atayal	108	2	Amis	229	3	Paiwan
185	2	Atayal	193	2	Atayal	56	2	Atayal	227	3	Paiwan
184	2	Atayal	194	2	Atayal	60	2	Yami	225	3	Paiwan
183	2	Atayal	195	2	Atayal	61	2	Yami	117	3	Puyuma
182	2	Atayal	296	2	Atayal	62	2	Yami	115	3	Puyuma
181	2	Atayal	290	2	Paiwan	98	2	Yami	113	3	Puyuma
178	2	Atayal	139	2	Rukai	291	2	Amis	5	3	Puyuma
180	2	Atayal	140	2	Rukai	293	2	Amis	3	3	Puyuma
179	2	Atayal	54	2	Bunun	292	2	Bunun	228	3	Puyuma
289	2	Atayal	102	2	Bunun	42	2	Bunun	226	3	Puyuma
177	2	Atayal	166	2	Bunun	90	2	Bunun	116	3	Puyuma
312	2	Atayal	207	2	Bunun	154	2	Bunun	114	3	Puyuma
311	2	Atayal	263	2	Bunun	50	2	Yami	4	3	Puyuma
277	2	Atayal	271	2	Bunun	58	2	Yami	2	3	Puyuma
213	2	Atayal	297	2	Bunun	59	2	Yami	1	3	Puyuma
165	2	Atayal	305	2	Bunun	64	2	Yami	27	3	Rukai
101	2	Atayal	159	2	Bunun	198	2	Atayal	28	3	Rukai
53	2	Atayal	95	2	Bunun	199	2	Atayal	29	3	Rukai
310	2	Atayal	47	2	Bunun	278	2	Thao	31	3	Paiwan
276	2	Atayal	302	2	Bunun	214	2	Thao	33	3	Puyuma
212	2	Atayal	268	2	Bunun	41	2	Atayal	34	3	Puyuma
164	2	Atayal	204	2	Bunun	156	2	Bunun	35	3	Puyuma
100	2	Atayal	92	2	Bunun	135	3	Paiwan	38	3	Puyuma
52	2	Atayal	44	2	Bunun	23	3	Paiwan	39	3	Puyuma
313	2	Atayal	324	2	Bunun	256	3	Paiwan	141	3	Paiwan
279	2	Atayal	322	2	Bunun	144	3	Paiwan	142	3	Paiwan
215	2	Atayal	288	2	Bunun	32	3	Paiwan	143	3	Paiwan
167	2	Atayal	224	2	Bunun	248	3	Paiwan	145	3	Paiwan
103	2	Atayal	176	2	Bunun	136	3	Paiwan	146	3	Paiwan
55	2	Atayal	112	2	Bunun	24	3	Paiwan	246	3	Rukai
309	2	Atayal	317	2	Tsou	250	3	Paiwan	245	3	Paiwan
275	2	Atayal	283	2	Tsou	138	3	Paiwan	247	3	Paiwan
211	2	Atayal	219	2	Tsou	26	3	Paiwan	253	3	Paiwan
163	2	Atayal	171	2	Tsou	243	3	Paiwan	254	3	Paiwan
99	2	Atayal	107	2	Tsou	131	3	Paiwan	255	3	Paiwan
51	2	Atayal	316	2	Tsou	19	3	Paiwan	251	3	Rukai
315	2	Atayal	282	2	Tsou	249	3	Paiwan	252	3	Rukai
281	2	Atayal	218	2	Tsou	137	3	Paiwan	257	3	Rukai
217	2	Atayal	170	2	Tsou	25	3	Paiwan	258	3	Rukai

169	2	Atayal	106	2	Bunun	244	3	Paiwan	21	3	Paiwan
105	2	Atayal	308	2	Bunun	132	3	Paiwan	22	3	Paiwan
57	2	Atayal	274	2	Bunun	20	3	Paiwan	30	3	Paiwan
307	2	Atayal	210	2	Bunun	242	3	Paiwan	134	3	Paiwan
273	2	Atayal	162	2	Bunun	130	3	Paiwan	133	3	Paiwan
209	2	Atayal	319	2	Bunun	18	3	Paiwan	259	3	Paiwan
161	2	Atayal	285	2	Bunun	241	3	Paiwan	262	3	Saisiat

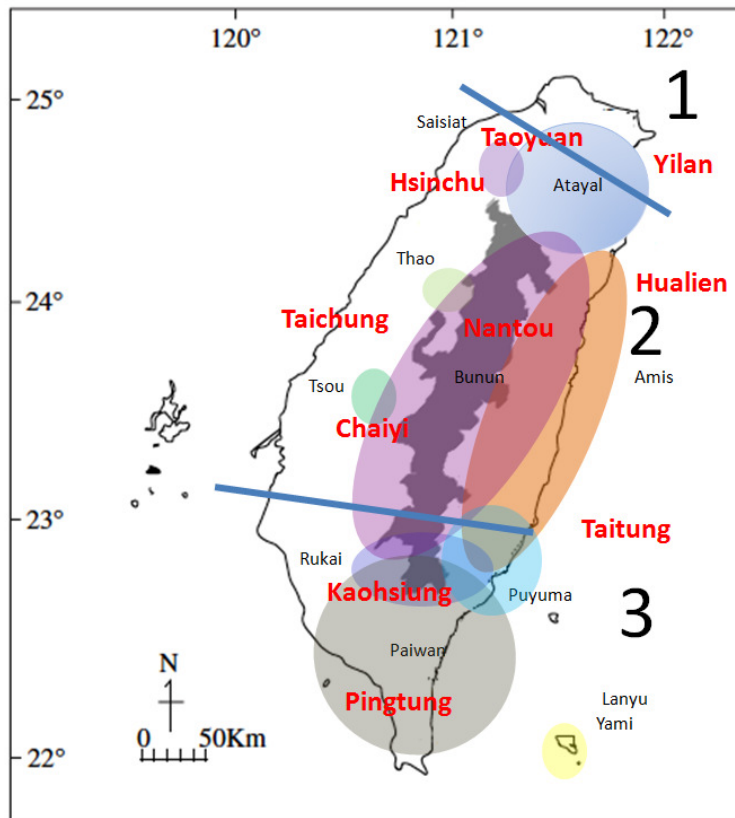
Supplementary Table S6. Forty microsatellite markers used in this study.

Locus	Repeat motif	Primer sequences(5'-3')	Primer sequences(5'-3')	Ta
SITM04	(TG) ₁₃	F CGTGTCCCTGTACTCAGCCA	R CAATGGTCTCAGGTGTGGTG	53.8
SITM05	(GT) ₁₀	F AGCTTACCCCTCACATTTAT	R ATGAGAAGGTGCCAAAATGC	47.7
SITM06	(CA) ₁₀	F GCTCTCTCCATCCCACATTC	R TTCTCCTTCCCTTCCCTTCC	53.8
SITM07	(AC) ₇ .(CA) ₈	F GCCCAAAAACCTCATTCTCCA	R ATAACCCTCACCCTACAAG	49.7
SITM08	(GT) ₉ .(GT) ₇	F GCTTTTTTCTGTTTTGTGAC	R CGCCACAGAGAAAACAGACAA	45.6
SITM09	(AC) ₁₅	F CCCCTATGTTCCCTTGGACCT	R GGAAAGCCAGTGTGAGTGCA	53.8
SITM13	(CAT) ₁₀	F AGTTCCTTGTCCCTCCACCAT	R TGGAGGTGTTAGGTGAGGAG	51.8
SITM14	(CAT) ₁₅	F TCTGAGGAGGAGGATGTGCT	R CATCTGAAGCAAACCTGAAT	53.8
SITM15	(ATC) ₈	F TGGAACCGAAGCTGCCTACC	R AAGTCCAAGAAGTCGCCAGA	55.9
SITM37	(GAT) ₇	F CATCGTTGTAAGAAGTGGAA	R CTTTTTGGCTGCTGGGTTT	47.7
SITM38	(TCA) ₉	F ACGGAAGAGGCAGTCACAAT	R ATTGGTGATGGATTTCGCAT	51.8
SITM41	(ATC) ₅	F GGTTCCTTCCCCTTGTTT	R CGGTCCCTATTGTTGATGAT	51.8
SITM42	(ATG) ₈	F TGTTTCATGCGGATTTTCTTG	R GGGACTCGGCAAAAATAATCA	47.7
SITM43	(TGA) ₅	F CGTCACAAATCACCGTCAAC	R AAAGCCACGTCATACCAAT	51.8
SITM44	(TTA) ₅	F TCGGTTAATGCCTTTTGCTC	R TTATGGACGGAAATGGTGTG	49.7
SITM46	(TGA) ₆	F TGCCGAAAGGATCAAAAAGA	R TCACCACTGCCATCATCACT	47.7
SITM47	(AT) ₅ .(AG) ₇ .(GA) ₇ .(ATC) ₁₄	F TGTATGGGTGCTGCTTATCG	R TCAAAAATCAAAGCAATCAGC	51.8
SITM48	(TC) ₁₆ .(CA) ₂₁ .(CG) ₈ .(CA) ₅	F AAAGGTTGCTGCGGTAAGAA	R CAGAGGGTGATAAGCGGTAA	49.7
SITM49	(TG) ₁₀ .(GT) ₁₈	F AGGTATCGTGCCTGTGCTG	R AATGATGAATAATGGTGTG	53.8
SITM50	(GT) ₁₃	F CATTGGGACGAAGTTTACGG	R CAACAAGTCAAACCCCATCC	51.8
SITM51	(AC) ₁₃	F CAATGGTCTCAGGTGTGGTG	R TACCATTTCATCAAAGTGCC	53.8
SITM54	(AC) ₁₄	F TTCACATCAACTGTCCCAAT	R ACCAGAAGTGAAGGGGATGA	50.5
SITM57	(AC) ₁₃	F GGGTAGTGGTCTGGTGGTCA	R GTATCACTTCAGGCGGCATT	55.9
SITM62	(AC) ₁₅ .(AC) ₆	F CGAACCGCTCACAAACACTA	R TAGTTGGAGAAGTTGAGTGC	51.8
SITM63	(GT) ₂₈	F TGTGCTCCATGAGCTAGGTG	R GGCTCGTATGTTGTGTGGAA	53.8
SITM64	(AC) ₁₈ .(AT) ₅	F CTCCACCATTCCCCTTGACA	R CGGCTCGTATGTTGTGTGGA	53.8
SITM65	(GT) ₁₃	F GCCACCCCTTGATTGTTATG	R GCTCAACATCTGGCATTTC	51.8
SITM67	(CA) ₁₁	F TACGCCAGCTTTTATCGCTA	R CGGTTACGGTCTCCTGAATG	49.7
SITM68	(GT) ₂₆	F GGCATTGGACGAGTTACGGC	R GTCATAGCTCACGGCACAAC	55.9
SITM69	(CA) ₁₅	F TAGCAAAGACGACAGGAAAC	R AGCCCACCCTACCACGAATA	49.7
SITM70	(CA) ₁₅	F TCTCTGCCTCTCGAATCCAC	R GCATTTCTGTCGCTATTTCAT	53.8
SITM71	(CA) ₁₀	F AACCTCCACAAGCATCAACC	R GCTTGAGAGGTGGTCTTTC	51.8
SITM72	(TG) ₁₃	F AGAAGGTGAGGTGAGGGTGA	R CAGTGAGCGAGGAAGCGACC	53.8
SITM73	(CT) ₂₁	F CCTGAACTGGTTGGAGTTGG	R ATCAGGACCAAGGGCAAAAT	53.8
SITM75	(TG) ₁₂	F GGATGTTGACGTGTGACCTG	R TGTGGAATTGTGAGCGGATA	53.8
SITM76	(AC) ₁₂	F AAGGGCATCAATCAGACCAC	R CTGGAAAGTTTCGGGCAAT	51.8
SITM82	(GCT) ₆ .(TGC) ₃ .(CTG) ₄ .(CTG) ₅	F CCATCTTCCCTTGCATCATC	R GCAACAGATGCAACACCAGC	51.8
SITM85	(CTG) ₄ .(TGG) ₅ .(TGG) ₃	F TTGAGGAGGACGTGTTCTTTG	R AAATCCGAAGGTGACAGTGG	52.4
SITM86	(AT) ₃ .(CG) ₃ .(CG) ₃ .(CG) ₇ .(CG) ₃	F CTTGCTTAGATCTGGACTAA	R GCGAGGCTGGAGATAGTCAG	47.7
GS030	(GCAG) ₅ .(CTCA) ₃ .(AG) ₆ .(GCCA) ₄ .(AG) ₃ .(GA) ₁₈ .(TGC) ₃	F TGAAGCAAACCTGAATCGTG	R TCTGAGGAGGAGGATGTGCT	49.7

F: forward primer, R: reverse primer, Ta: annealing temperature, Na: number of alleles,



Supplementary Fig S1. Map of Taiwan and the *Setaria italica* sampling sites used in this study. Each different symbol indicates a different collection of ethnic tribes that grew foxtail millet. The gray area indicates the Central Mountain Range or CMR.



Supplemental Figure S2. Distribution of the indigenous population and geographic region in Taiwan.