

S3 Table. Vein characters of *Oryza* species.

Veins (V) are counted at 1 mm lateral space at both the left and right side of the leaf, taking 10 leaves per species (N = 20). Vein related anatomical parameters are quantified by examining at least three leaf transverse sections per leaf. Values are presented as average \pm SD. All the traits show significant ($P < 0.0001$) difference in wild rice. Considering the consistent oval structure of veins in all the species, only the lateral diameter or the vein, i.e., vein width is included for ANOVA.

Genome	<i>Oryza</i> species	IRGC accession number	Vein density (VD***, count)	Inter-veinal distance (IVD***, μm)	Inter-veinal mesophyll tissue length (TML = IVD X MCN, μm)	Vein width (VW***, μm)	Vein height (VH, μm)
KKLL	<i>O. coarctata</i>	104502	5 \pm 0.4 (efg)	226.2 \pm 7.4 (cd)	85.08 \pm 1.86	36.50 \pm 4.3 (bc)	42 \pm 3.45
HHKK	<i>O. schlechteri</i>	82047	6.4 \pm 0.4 (ab)	153.43 \pm 14.5 (l)	90.12 \pm 1.8	22.32 \pm 2.5 (l)	24.43 \pm 3.62
HHJJ	<i>O. longiglumis</i>	105148	6.2 \pm 0.5 (b)	147.92 \pm 14.7 (m)	88.27 \pm 1.55	25.11 \pm 4.04 (jk)	26.44 \pm 3.17
HHJJ	<i>O. ridleyi</i>	100821	6.25 \pm 0.7 (b)	162.97 \pm 2.9 (jkl)	129.72 \pm 2.86	22.51 \pm 2.6 (kl)	29.5 \pm 1.5
GG	<i>O. meyeriana</i>	89241	5.89 \pm 1.09 (c)	199.9 \pm 15.1 (fg)	126.21 \pm 3.38	17.60 \pm 2.2 (m)	22.29 \pm 1.86
GG	<i>O. granulata</i>	102118	5.8 \pm 0.5 (c)	159.74 \pm 14.8 (kl)	67.17 \pm 0.99	23.25 \pm 1.7 (kl)	25 \pm 1.5
FF	<i>O. brachyantha</i>	101232	6.67 \pm 0.7 (a)	143.53 \pm 25.8 (m)	88.22 \pm 3.21	27.78 \pm 4.9 (jkl)	25 \pm 2.33
EE	<i>O. australiensis</i>	100882	5.15 \pm 0.6 (ef)	166.4 \pm 9.2 (ijk)	132.3 \pm 2.58	31.95 \pm 2.3 (cde)	37.5 \pm 2.01
CCDD	<i>O. grandiglumis</i>	106241	5.5 \pm 0.6 (d)	181.55 \pm 11.0 9 (ij)	124.35 \pm 2.89	29.24 \pm 3.9 (hi)	31.75 \pm 4.45
CCDD	<i>O. latifolia</i>	105173	4.9 \pm 1.03 (fgh)	231.35 \pm 10.24 (c)	173.68 \pm 2.89	32.72 \pm 2.9 (cdefg)	28.24 \pm 2.83
CCDD	<i>O. alta</i>	105143	4.6 \pm 0.4 (ij)	253 \pm 39.1 (a)	202.65 \pm 5.76	36.92 \pm 4.5 (b)	47.72 \pm 47.72
CC	<i>O. rhizomatis</i>	105659	5.6 \pm 0.4 (cd)	218.6 \pm 17.1 (de)	148.23 \pm 1.9	27.88 \pm 4.3 (gh)	29.55 \pm 4.84
CC	<i>O. officinalis</i>	100896	4.9 \pm 0.5 (d)	181.74 \pm 8.9 (i)	108.16 \pm 3.22	25.01 \pm 2.8 (ij)	28.19 \pm 3.01
CC	<i>O. eichingeri</i>	101422	5.2 \pm 0.7 (e)	190.41 \pm 11.3 (h)	123.77 \pm 2.21	20.99 \pm 3.1 (m)	24.75 \pm 3.74
BBCC	<i>O. minuta</i>	101141	5.5 \pm 0.4 (d)	172.82 \pm 11.6 (ijk)	98.96 \pm 0.84	31.85 \pm 3.9 (cd)	37.5 \pm 3.3
BB	<i>O. punctata</i>	105690	4.75 \pm 0.7 (ghi)	174.59 \pm 17.3 (i)	137.41 \pm 1.35	17.16 \pm 2.4 (m)	20.78 \pm 2.74
AA	<i>O. glumaepatula</i>	106242	5.15 \pm 0.4 (ef)	249.63 \pm 17.0 7(b)	213.99 \pm 2.02	40.06 \pm 3.7 (a)	44.76 \pm 6.23
AA	<i>O. longistaminata</i>	110404	3.85 \pm 0.4 (k)	172.32 \pm 33.3 (ij)	161.72 \pm 4.08	32.68 \pm 4.6 (fgh)	27.78 \pm 4.47
AA	<i>O. rufipogon</i>	106424	4.4 \pm 0.5 (j)	204.81 \pm 18.5 (fg)	170.03 \pm 5.22	31.83 \pm 4.09 (defg)	40.31 \pm 5.44
AA	<i>O. meridionalis</i>	105301	4.65 \pm 0.9 (6)	205.66 \pm 13.7 (fg)	137.06 \pm 1.86	33.56 \pm 5.3 (efgh)	39.38 \pm 2.97
AA	<i>O. barthii</i>	106017	4.55 \pm 0.7 (ij)	212.61 \pm 19.6 (ef)	220.6 \pm 3.1	28.95 \pm 3.2 (cdef)	33.33 \pm 3.55
AA	<i>O. nivara</i>	80723	5.5 \pm 0.9 (d)	154.84 \pm 12.4 (kl)	166.04 \pm 0.58	25.51 \pm 2.2 (jkl)	29.54 \pm 2.79
AA	<i>O. glaberrima</i>	103544	5 \pm 0.9 (ij)	229.91 \pm 14.8 (cd)	231.34 \pm 1.28	31.01 \pm 3.8 (cd)	34.41 \pm 4.3
AA	<i>O. sativa</i> cv IR64	IR64-21	5 \pm 0.9 (ij)	196 \pm 12.2 (gh)	157.54 \pm 3.6	22.10 \pm 3.6 (efgh)	29.5 \pm 3.3

*** Represents significant difference among the species for the trait at $P < 0.001$. Different letters suggest

N = 30 (N = 20 for VD) significant differences.