

Supplementary Material

Table S1. Multifactorial ANOVA and Tukey post-hoc test results ($p \leq 0.05$ in bold) for seedling morphological traits (mean \pm SD) at the end of the season ($N_{obs} = 20$ seedlings per stocktype). Source of variation: substrate (S), fertilization (F), and their interaction ($S \times F$). Lowercase letters indicate homogeneous groups. Variables: H : height; RcD (root collar diameter in mm); H/RcD (seedling taper); Rv (root-system volume in cm^3); Rd (root-system density = Rb/Rv in $g\ cm^{-3}$); S/R (shoot-root ratio); SLA (specific leaf area, in $cm^2\ g^{-1}$); Ln (number of leaves); and Lb (leaf dry biomass in g).

<i>Q. Robur</i>	<i>Pe-St</i>	<i>Pe-P</i>	<i>Pe-K</i>	<i>Co-St</i>	<i>Co-P</i>	<i>Co-K</i>
<i>H</i>	53.51 \pm 9.94 abc	58.12 \pm 10.91 bc	61.15 \pm 10.67 c	43.09 \pm 10.62 a	44.82 \pm 9.61 a	49.60 \pm 10.08 ab
<i>RcD</i>	10.3 \pm 1.8 ab	11.6 \pm 1.9 b	11.6 \pm 1.9 b	9.9 \pm 1.8 a	10.9 \pm 1.6 ab	11.6 \pm 1.2 b
<i>H/RcD</i>	53.2 \pm 13.8 b	50.7 \pm 8.9 ab	53.8 \pm 11.7 b	43.7 \pm 9.4 a	41.6 \pm 8.5 a	43.3 \pm 9.7 a
<i>Rv</i>	22.6 \pm 6.4 ab	27.0 \pm 8.2 b	34.4 \pm 8.7 c	19.4 \pm 5.2 a	26.9 \pm 7.9 b	27.6 \pm 7.6 b
<i>Rd</i>	0.46 \pm 0.08 ab	0.43 \pm 0.06 ab	0.38 \pm 0.05 a	0.47 \pm 0.12 b	0.41 \pm 0.07 ab	0.44 \pm 0.06 ab
<i>S/R</i>	0.59 \pm 0.15 bc	0.66 \pm 0.08 c	0.70 \pm 0.16 c	0.46 \pm 0.16 a	0.49 \pm 0.13 ab	0.52 \pm 0.16 ab
<i>SLA</i>	155.2 \pm 22.8 ab	145.9 \pm 38.5 ab	167.0 \pm 20.5 b	138.8 \pm 13.4 a	138.6 \pm 24.4 a	148.8 \pm 13.0 ab
<i>Ln</i>	46.2 \pm 12.4 ab	51.1 \pm 25.2 ab	72.5 \pm 30.0 c	37.1 \pm 12.7 a	44.9 \pm 18.2 ab	59.8 \pm 20.7 bc
<i>Lb</i>	3.58 \pm 1.06 ab	4.40 \pm 1.15 b	5.56 \pm 1.50 c	2.75 \pm 1.06 a	3.60 \pm 1.25 ab	3.91 \pm 1.25 b
<i>Q. pubescens</i>	<i>Pe-St</i>	<i>Pe-P</i>	<i>Pe-K</i>	<i>Co-St</i>	<i>Co-P</i>	<i>Co-K</i>
<i>H</i>	34.29 \pm 10.13 bc	33.38 \pm 10.06 bc	42.75 \pm 12.39 c	21.41 \pm 6.78 a	20.67 \pm 8.08 a	25.14 \pm 9.17 ab
<i>RcD</i>	10.1 \pm 1.8 abc	10.3 \pm 2.0 bc	11.6 \pm 1.6 c	9.4 \pm 1.9 ab	8.4 \pm 2.3 a	10.2 \pm 2.2 abc
<i>H/RcD</i>	34.5 \pm 11.0 c	32.8 \pm 9.6 bc	37.1 \pm 10.4 c	23.2 \pm 6.5 a	24.8 \pm 7.5 ab	24.5 \pm 7.8 a
<i>Rv</i>	28.7 \pm 13.5 c	22.7 \pm 8.0 bc	25.9 \pm 8.8 c	13.1 \pm 3.5 a	15.0 \pm 7.4 ab	16.7 \pm 6.5 ab
<i>Rd</i>	0.38 \pm 0.07 a	0.42 \pm 0.06 ab	0.42 \pm 0.06 ab	0.45 \pm 0.07 b	0.45 \pm 0.06 b	0.41 \pm 0.04 ab
<i>S/R</i>	0.37 \pm 0.10 bc	0.42 \pm 0.14 cd	0.51 \pm 0.13 d	0.28 \pm 0.10 ab	0.19 \pm 0.07 a	0.33 \pm 0.13 bc
<i>SLA</i>	102.7 \pm 8.6	105.5 \pm 17.5	105.7 \pm 13.1	100.0 \pm 9.4	102.1 \pm 8.8	99.7 \pm 8.2
<i>Ln</i>	62.8 \pm 34.6 c	51.6 \pm 24.2 bc	67.2 \pm 19.8 c	30.2 \pm 7.5 a	31.8 \pm 8.8 a	42.7 \pm 21.7 ab
<i>Lb</i>	4.41 \pm 1.49 b	3.74 \pm 1.30 b	4.82 \pm 1.69 b	1.88 \pm 0.78 a	1.95 \pm 0.92 a	2.52 \pm 1.39 a
<i>Q. ilex</i>	<i>Pe-St</i>	<i>Pe-P</i>	<i>Pe-K</i>	<i>Co-St</i>	<i>Co-P</i>	<i>Co-K</i>
<i>H</i>	48.36 \pm 10.90 bc	49.90 \pm 12.00 cd	59.93 \pm 13.80 d	33.37 \pm 10.38 a	33.65 \pm 8.95 a	37.87 \pm 11.31 ab
<i>RcD</i>	8.3 \pm 0.8	8.4 \pm 1.4	8.8 \pm 1.0	7.9 \pm 1.7	7.4 \pm 1.6	8.2 \pm 1.5
<i>H/RcD</i>	58.4 \pm 11.8 bc	60.1 \pm 12.9 c	69.6 \pm 18.8 c	41.8 \pm 9.2 a	47.0 \pm 15.9 ab	46.3 \pm 11.0 ab
<i>Rv</i>	12.2 \pm 4.1 ab	15.4 \pm 6.0 bc	17.0 \pm 3.3 c	9.4 \pm 3.8 a	10.3 \pm 3.2 a	12.2 \pm 5.5 ab
<i>Rd</i>	0.46 \pm 0.12	0.41 \pm 0.09	0.49 \pm 0.07	0.45 \pm 0.14	0.42 \pm 0.07	0.43 \pm 0.15
<i>S/R</i>	0.73 \pm 0.23 b	0.71 \pm 0.36 ab	0.70 \pm 0.10 ab	0.62 \pm 0.25 ab	0.51 \pm 0.13 a	0.65 \pm 0.25 ab
<i>SLA</i>	78.0 \pm 7.3 b	70.7 \pm 8.7 a	71.9 \pm 6.3 a	68.1 \pm 3.6 a	70.7 \pm 5.3 a	72.5 \pm 6.6 ab
<i>Ln</i>	46.9 \pm 14.3 bc	44.5 \pm 13.8 b	56.8 \pm 16.6 c	30.3 \pm 13.7 a	27.5 \pm 6.0 a	32.3 \pm 12.1 a
<i>Lb</i>	4.63 \pm 1.12 b	4.92 \pm 1.81 b	6.15 \pm 1.21 c	2.70 \pm 1.26 a	2.83 \pm 1.03 a	3.08 \pm 1.27 a

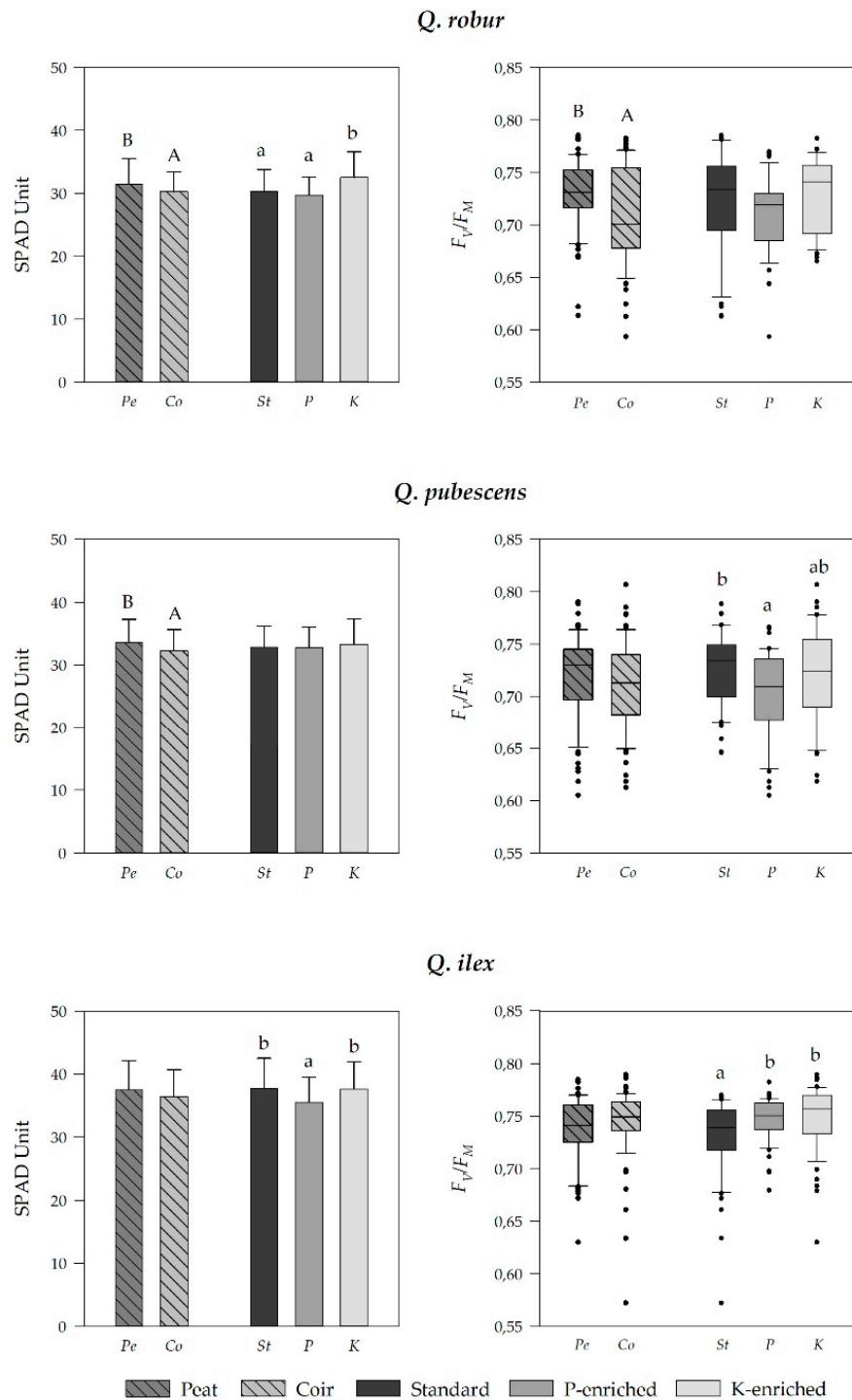


Figure S1. Multifactorial ANOVA and Tukey post-hoc test results of the F_v/F_m values (box whisker plot) and SPAD units (mean and SD) analyzed for substrate and fertilization ($N_{obs} = 81$ for substrate; $N_{obs} = 54$ for fertilization) in August. Capital and lowercase letters indicate homogenous groups for substrate and fertilization, respectively. *Pe* = Peat; *Co* = Coir; *St* = Standard fertilization; *K* = K-enriched fertilization; and *P* = P-enriched fertilization.

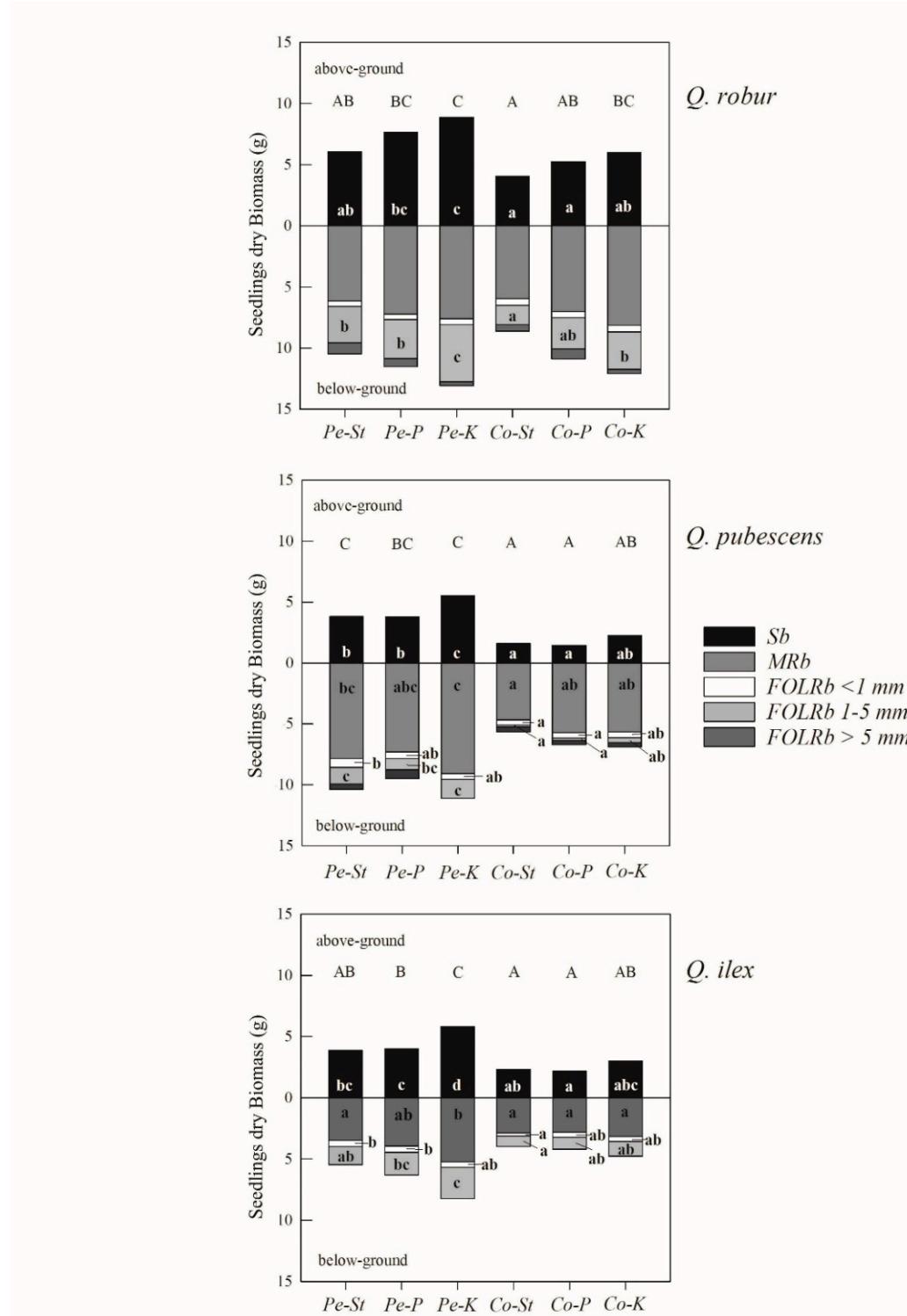


Figure S2. Multifactorial ANOVA and Tukey post hoc test results ($p \leq 0.05$) for seedling dry biomass (g) allocation at the end of the growing season ($N_{obs}=20$ per stocktype per species). Source of variation: substrate (S), fertilization (F), and their interaction ($S \times F$). Sb : shoot-system dry biomass; MRb : main root dry biomass; $FOLRb$: dry biomass of First Order Lateral Root split by diameter class (<1 mm, 1–5 mm, >5 mm). Capital letters indicate homogenous groups for total biomass while lowercase letters indicate homogenous groups for the remaining variables. Pe = Peat; Co = Coir; St = Standard fertilization; K = K-enriched fertilization; P = P-enriched fertilization.

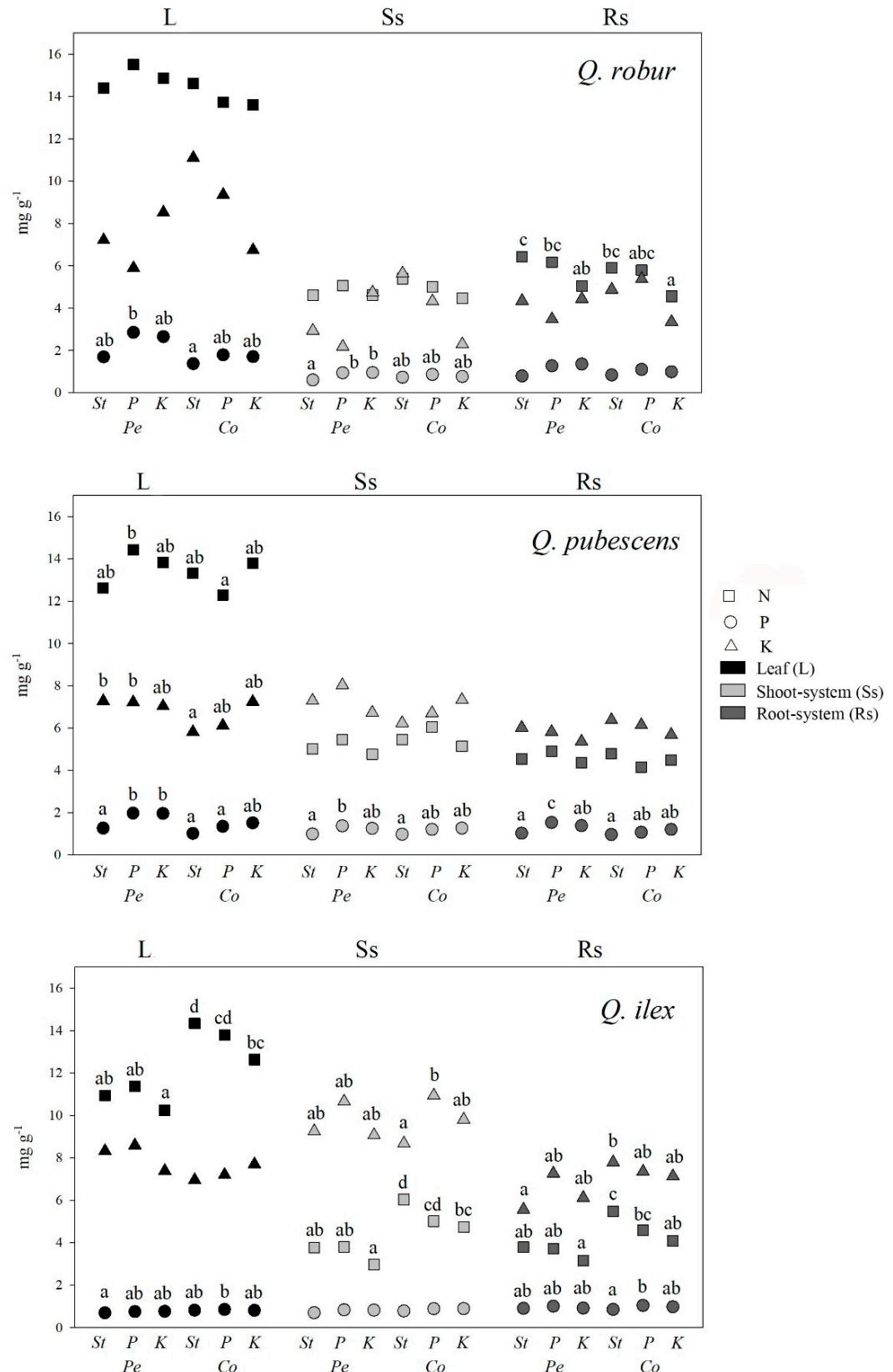


Figure S3. Macro-element concentration (mg g^{-1} for N, P, K) in leaves, shoot-system and root-system in stocktypes (mean \pm SD). Source of variation substrate (S), fertilization (F) and their interaction ($S \times F$). Lowercase letters indicate homogenous groups. *Pe* = Peat; *Co* = Coir; *St* = Standard fertilization; *K* = K-enriched fertilization; *P* = P-enriched fertilization.