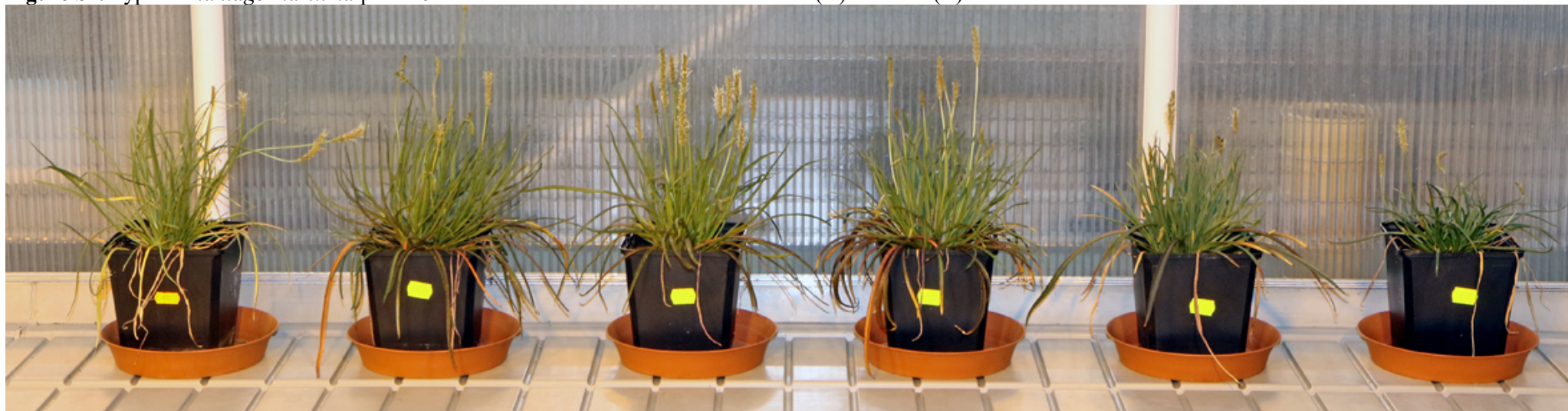


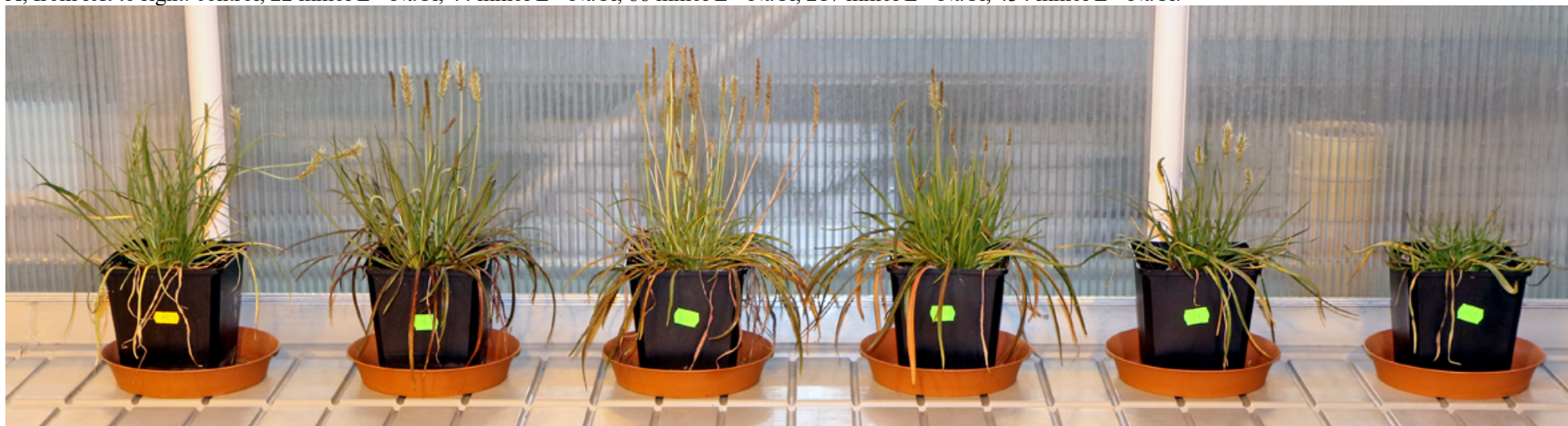
Supplement

Similar responses to Na and K during chloride salinity: comparison of growth, water content and ion accumulation of several model plants with relatively high salt tolerance

Figure S1. Typical *Plantago maritima* plants 6 weeks after the final treatment with NaCl (A) and KCl (B).



A, from left to right: control, 22 mmol L⁻¹ NaCl, 44 mmol L⁻¹ NaCl, 88 mmol L⁻¹ NaCl, 217 mmol L⁻¹ NaCl, 434 mmol L⁻¹ NaCl.



B, from left to right: control, 22 mmol L⁻¹ KCl, 44 mmol L⁻¹ KCl, 88 mmol L⁻¹ KCl, 217 mmol L⁻¹ KCl, 434 mmol L⁻¹ KCl.

Figure S2. Typical *Beta vulgaris* subsp. *vulgaris* var. *cicla* plants 4 weeks after the final treatment with NaCl (A) and KCl (B).



A, from left to right: control, 44 mmol L⁻¹ NaCl, 88 mmol L⁻¹ NaCl, 217 mmol L⁻¹ NaCl, 434 mmol L⁻¹ NaCl.



B, from left to right: control, 44 mmol L⁻¹ KCl, 88 mmol L⁻¹ KCl, 217 mmol L⁻¹ KCl, 434 mmol L⁻¹ KCl.

Figure S3. Typical *Beta vulgaris* subsp. *maritima* plants 5 weeks after the final treatment with NaCl and KCl.



From left to right: control, 44 mmol L⁻¹ NaCl, 88 mmol L⁻¹ NaCl, 217 mmol L⁻¹ NaCl, 434 mmol L⁻¹ NaCl, 44 mmol L⁻¹ KCl, 434 mmol L⁻¹ KCl.

Figure S4. Typical *Cochlearia officinalis* plants 3 weeks after the final treatment with NaCl (A) and KCl (B).



A, from left to right: control, 44 mmol L⁻¹ NaCl, 88 mmol L⁻¹ NaCl, 217 mmol L⁻¹ NaCl, 434 mmol L⁻¹ NaCl.



B, from left to right: control, 44 mmol L⁻¹ KCl, 88 mmol L⁻¹ KCl, 217 mmol L⁻¹ KCl, 434 mmol L⁻¹ KCl.

Table S1. Effect of NaCl and KCl treatment on morphological parameters of *Plantago maritima* plants. Data are means from 5 replicates \pm SE.

Parameter	Control	NaCl (mmol L ⁻¹)					KCl (mmol L ⁻¹)				
		22	44	88	217	434	22	44	88	217	434
Senescent leaves (<i>n</i>)	43 \pm 17	33 \pm 10	22 \pm 2	35 \pm 6	28 \pm 7	28 \pm 6	23 \pm 3	30 \pm 5	27 \pm 2	33 \pm 8	24 \pm 2
Old leaves (<i>n</i>)	41 \pm 12	42 \pm 5	29 \pm 3	43 \pm 13	40 \pm 9	38 \pm 4	42 \pm 8	33 \pm 4	49 \pm 13	33 \pm 2	8 \pm 3
Middle leaves (<i>n</i>)	39 \pm 5	72 \pm 17	57 \pm 9	43 \pm 12	53 \pm 7	60 \pm 9	81 \pm 10	56 \pm 13	97 \pm 20	60 \pm 11	24 \pm 7
Young leaves (<i>n</i>)	40 \pm 9	70 \pm 9	108 \pm 25	61 \pm 18	94 \pm 21	38 \pm 6	86 \pm 14	64 \pm 12	105 \pm 31	33 \pm 5	69 \pm 14
Leaves total (<i>n</i>)	164 \pm 29	216 \pm 23	216 \pm 34	182 \pm 31	215 \pm 25	164 \pm 14	232 \pm 21	184 \pm 21	278 \pm 45	158 \pm 21	126 \pm 22
Flower stalks (<i>n</i>)	22 \pm 2	28 \pm 3	29 \pm 4	32 \pm 5	26 \pm 3	15 \pm 2	21 \pm 5	30 \pm 6	24 \pm 6	23 \pm 5	4 \pm 2
Total length of flower stalks (m)	4.9 \pm 0.9	6.0 \pm 0.9	6.0 \pm 0.6	6.0 \pm 0.9	3.4 \pm 0.5	1.5 \pm 0.4	5.5 \pm 2.0	6.8 \pm 1.1	4.4 \pm 1.2	3.1 \pm 0.7	0.5 \pm 0.2
DM of senescent leaves (g)	1.9 \pm 0.5	1.7 \pm 0.2	1.3 \pm 0.1	1.6 \pm 0.4	1.1 \pm 0.2	0.9 \pm 0.2	1.5 \pm 0.5	2.0 \pm 0.3	1.1 \pm 0.2	1.5 \pm 0.4	1.6 \pm 0.2
DM of old leaves (g)	2.3 \pm 0.5	2.7 \pm 0.1	2.2 \pm 0.2	2.6 \pm 0.5	1.7 \pm 0.3	0.9 \pm 0.2	3.1 \pm 0.7	2.4 \pm 0.3	2.2 \pm 0.5	1.7 \pm 0.2	0.6 \pm 0.2
DM of middle leaves (g)	2.4 \pm 0.2	3.8 \pm 0.9	3.0 \pm 0.6	2.0 \pm 0.6	2.0 \pm 0.4	1.4 \pm 0.2	4.5 \pm 0.8	3.6 \pm 1.3	4.4 \pm 0.5	2.7 \pm 0.6	1.0 \pm 0.2
DM of young leaves (g)	0.74 \pm 0.17	1.36 \pm 0.16	2.22 \pm 0.45	0.76 \pm 0.14	1.01 \pm 0.29	0.25 \pm 0.06	1.84 \pm 0.40	1.06 \pm 0.18	1.64 \pm 0.43	0.31 \pm 0.03	0.94 \pm 0.28
DM of leaves total (g)	7.3 \pm 0.8	9.5 \pm 1.0	8.8 \pm 1.1	7.0 \pm 1.1	5.8 \pm 0.7	3.4 \pm 0.4	10.9 \pm 1.7	9.1 \pm 1.7	9.3 \pm 0.6	6.1 \pm 1.0	4.1 \pm 0.7
DM of flower stalks (g)	1.45 \pm 0.39	1.77 \pm 0.24	2.00 \pm 0.22	1.68 \pm 0.17	0.78 \pm 0.13	0.37 \pm 0.11	1.48 \pm 0.39	2.10 \pm 0.26	1.21 \pm 0.31	0.84 \pm 0.17	0.12 \pm 0.05
DM of flowers (g)	1.10 \pm 0.28	1.27 \pm 0.19	1.84 \pm 0.20	1.70 \pm 0.25	0.77 \pm 0.11	0.55 \pm 0.18	1.17 \pm 0.42	2.11 \pm 0.37	0.90 \pm 0.24	1.12 \pm 0.22	0.17 \pm 0.08
DM of roots (g)	2.4 \pm 0.3	3.6 \pm 0.4	4.4 \pm 1.3	2.4 \pm 0.6	2.7 \pm 0.3	1.6 \pm 0.2	5.8 \pm 0.4	4.4 \pm 0.9	5.7 \pm 0.5	3.1 \pm 0.5	1.7 \pm 0.4

Table S2. Effect of NaCl and KCl treatment on morphological parameters of *Beta vulgaris* subsp. *vulgaris* var. *cicla* plants. Data are means from 5 replicates \pm SE.

Parameter	Control	NaCl (mmol L ⁻¹)				KCl (mmol L ⁻¹)			
		44	87	217	434	44	87	217	434
Senescent leaves (<i>n</i>)	3.5 \pm 0.3	2.8 \pm 0.3	3.6 \pm 0.7	3.0 \pm 0.5	4.0 \pm 0.6	3.7 \pm 0.9	3.2 \pm 0.2	2.6 \pm 0.4	3.4 \pm 0.3
Old leaves (<i>n</i>)	3.8 \pm 0.5	4.5 \pm 0.3	3.8 \pm 0.2	3.8 \pm 0.5	3.2 \pm 0.2	4.0 \pm 0.0	4.0 \pm 0.0	4.0 \pm 0.3	3.2 \pm 0.4
Middle leaves (<i>n</i>)	5.0 \pm 1.1	5.5 \pm 0.5	5.8 \pm 1.2	4.5 \pm 0.3	3.4 \pm 0.4	5.0 \pm 0.6	6.4 \pm 0.3	6.4 \pm 0.6	2.6 \pm 0.4
Young leaves (<i>n</i>)	6.3 \pm 0.3	9.0 \pm 1.4	8.4 \pm 1.6	7.8 \pm 1.1	8.6 \pm 1.6	8.0 \pm 1.2	7.4 \pm 0.8	8.2 \pm 0.9	7.0 \pm 0.6
Leaves total (<i>n</i>)	18.5 \pm 1.7	21.8 \pm 1.7	21.6 \pm 2.8	19.0 \pm 2.0	19.2 \pm 1.5	20.7 \pm 0.9	21.0 \pm 0.9	21.2 \pm 1.2	16.2 \pm 0.9
DM of senescent leaf petioles (g)	0.22 \pm 0.02	0.31 \pm 0.06	0.47 \pm 0.18	0.28 \pm 0.08	0.36 \pm 0.11	0.55 \pm 0.16	0.33 \pm 0.06	0.32 \pm 0.04	0.37 \pm 0.06
DM of senescent leaf blades (g)	0.61 \pm 0.06	1.00 \pm 0.17	1.24 \pm 0.21	0.74 \pm 0.22	1.18 \pm 0.30	1.99 \pm 0.65	1.20 \pm 0.16	1.32 \pm 0.22	1.26 \pm 0.23
DM of old leaf petioles (g)	1.43 \pm 0.39	1.95 \pm 0.27	1.66 \pm 0.29	1.07 \pm 0.12	0.97 \pm 0.20	1.83 \pm 0.60	1.50 \pm 0.32	1.48 \pm 0.31	0.84 \pm 0.12
DM of old leaf blades (g)	2.2 \pm 0.4	4.3 \pm 0.4	2.8 \pm 0.3	3.3 \pm 0.6	2.8 \pm 0.3	2.4 \pm 0.4	3.0 \pm 0.6	4.6 \pm 0.7	3.7 \pm 0.5
DM of middle leaf petioles (g)	1.48 \pm 0.29	1.82 \pm 0.03	1.68 \pm 0.23	1.18 \pm 0.20	0.81 \pm 0.09	2.17 \pm 0.73	1.81 \pm 0.20	2.06 \pm 0.34	0.57 \pm 0.12
DM of middle leaf blades (g)	1.58 \pm 0.10	2.25 \pm 0.10	1.96 \pm 0.27	1.90 \pm 0.26	1.51 \pm 0.17	1.79 \pm 0.26	2.18 \pm 0.26	2.38 \pm 0.28	1.50 \pm 0.18
DM of young leaf blades (g)	0.74 \pm 0.25	0.70 \pm 0.23	0.64 \pm 0.06	0.55 \pm 0.08	0.52 \pm 0.08	0.79 \pm 0.19	0.65 \pm 0.13	0.84 \pm 0.10	0.43 \pm 0.06
DM of young leaf petioles (g)	0.87 \pm 0.11	1.22 \pm 0.38	0.97 \pm 0.09	0.93 \pm 0.18	0.96 \pm 0.14	0.94 \pm 0.10	1.00 \pm 0.11	0.96 \pm 0.12	0.86 \pm 0.07
DM of leaf petioles total (g)	3.9 \pm 0.7	4.8 \pm 0.4	4.4 \pm 0.7	3.1 \pm 0.1	2.7 \pm 0.4	5.4 \pm 1.4	4.3 \pm 0.5	4.7 \pm 0.7	2.2 \pm 0.3
DM of leaf blades total (g)	5.2 \pm 0.5	8.7 \pm 0.7	6.9 \pm 0.7	6.9 \pm 1.0	6.4 \pm 0.6	7.1 \pm 1.0	7.4 \pm 0.7	9.2 \pm 1.1	7.3 \pm 0.6
DM of leaves total (g)	9.1 \pm 0.9	13.5 \pm 1.1	11.4 \pm 1.1	9.9 \pm 1.0	9.1 \pm 0.9	12.5 \pm 2.2	11.7 \pm 1.2	13.9 \pm 1.7	9.5 \pm 0.7
DM of roots (g)	5.5 \pm 1.4	6.5 \pm 1.0	5.5 \pm 0.7	3.9 \pm 0.8	3.1 \pm 0.3	5.0 \pm 1.2	6.0 \pm 0.8	4.1 \pm 0.3	2.9 \pm 0.3

Table S3. Effect of NaCl and KCl treatment on morphological parameters of *Beta vulgaris* subsp. *maritima* plants. Data are means from 5 replicates \pm SE.

Parameter	Control	NaCl (mmol L ⁻¹)				KCl (mmol L ⁻¹)	
		44	87	217	434	44	434
Senescent leaves (<i>n</i>)	4.3 \pm 0.5	3.8 \pm 0.9	3.8 \pm 0.5	4.5 \pm 0.9	3.6 \pm 1.1	4.5 \pm 0.5	4.6 \pm 1.0
Old leaves (<i>n</i>)	7.8 \pm 0.8	10.0 \pm 1.8	7.5 \pm 0.9	6.5 \pm 0.9	5.2 \pm 0.6	6.8 \pm 0.5	4.6 \pm 0.6
Middle leaves (<i>n</i>)	8.5 \pm 1.4	8.5 \pm 1.2	9.8 \pm 1.4	9.3 \pm 1.8	7.0 \pm 1.0	7.8 \pm 0.3	8.2 \pm 1.2
Young leaves (<i>n</i>)	4.8 \pm 0.3	7.5 \pm 0.9	8.3 \pm 0.9	12.3 \pm 3.1	10.0 \pm 2.7	7.5 \pm 1.0	7.8 \pm 1.7
Small leaves (<i>n</i>)	18.3 \pm 1.8	26.8 \pm 3.5	32.3 \pm 4.7	39.3 \pm 4.9	10.6 \pm 2.9	16.3 \pm 4.0	16.0 \pm 5.6
Leaves total (<i>n</i>)	44 \pm 1	57 \pm 3	62 \pm 7	72 \pm 9	45 \pm 6	43 \pm 4	41 \pm 9
DM of senescent leaf petioles (g)	0.19 \pm 0.07	0.36 \pm 0.10	0.17 \pm 0.05	0.33 \pm 0.12	0.40 \pm 0.10	0.39 \pm 0.14	0.33 \pm 0.08
DM of senescent leaf blades (g)	0.65 \pm 0.18	1.45 \pm 0.34	1.29 \pm 0.51	1.85 \pm 0.53	1.84 \pm 0.47	2.32 \pm 1.12	1.53 \pm 0.25
DM of old leaf petioles (g)	1.21 \pm 0.32	2.12 \pm 0.24	0.98 \pm 0.11	0.71 \pm 0.09	0.75 \pm 0.07	1.38 \pm 0.31	0.64 \pm 0.11
DM of old leaf blades (g)	2.5 \pm 0.2	4.5 \pm 0.4	3.4 \pm 0.4	2.9 \pm 0.3	2.9 \pm 0.4	3.8 \pm 0.7	3.5 \pm 0.8
DM of middle leaf petioles (g)	1.37 \pm 0.15	1.32 \pm 0.15	0.95 \pm 0.06	0.69 \pm 0.08	0.61 \pm 0.13	1.36 \pm 0.18	0.56 \pm 0.08
DM of middle leaf blades (g)	2.17 \pm 0.37	2.14 \pm 0.20	2.23 \pm 0.16	1.68 \pm 0.16	1.46 \pm 0.15	2.18 \pm 0.15	1.86 \pm 0.29
DM of young leaf petioles (g)	0.19 \pm 0.04	0.22 \pm 0.04	0.18 \pm 0.06	0.32 \pm 0.07	0.22 \pm 0.04	0.45 \pm 0.10	0.20 \pm 0.06
DM of young leaf blades (g)	0.48 \pm 0.09	0.57 \pm 0.10	0.55 \pm 0.13	0.74 \pm 0.16	0.59 \pm 0.06	0.76 \pm 0.12	0.54 \pm 0.14
DM of small leaf petioles (g)	0.17 \pm 0.04	0.41 \pm 0.12	0.38 \pm 0.15	0.44 \pm 0.12	0.19 \pm 0.06	0.17 \pm 0.05	0.18 \pm 0.06
DM of small leaf blades (g)	0.32 \pm 0.04	0.85 \pm 0.25	1.10 \pm 0.43	1.03 \pm 0.22	0.48 \pm 0.10	0.34 \pm 0.10	0.59 \pm 0.19
DM of leaf petioles total (g)	3.1 \pm 0.4	4.4 \pm 0.3	2.7 \pm 0.3	2.5 \pm 0.2	2.2 \pm 0.2	3.7 \pm 0.4	2.6 \pm 0.3
DM of leaf blades total (g)	6.1 \pm 0.4	9.5 \pm 0.4	8.6 \pm 0.6	7.7 \pm 0.5	6.9 \pm 0.9	8.3 \pm 0.4	7.9 \pm 1.2
DM of leaves total (g)	9.2 \pm 0.6	13.9 \pm 0.5	11.2 \pm 0.9	10.2 \pm 0.6	9.1 \pm 1.0	12.0 \pm 0.7	10.5 \pm 1.4
DM of roots (g)	6.3 \pm 1.0	8.9 \pm 1.0	6.2 \pm 1.0	4.3 \pm 0.6	3.7 \pm 0.4	8.1 \pm 0.9	2.6 \pm 0.3

Table S4. Effect of NaCl and KCl treatment on morphological parameters of *Cochlearia officinalis* plants. Data are means from 5 replicates \pm SE.

Parameter	Control	NaCl (mmol L ⁻¹)				KCl (mmol L ⁻¹)			
		44	87	217	434	44	87	217	434
Leaves (<i>n</i>)	112 \pm 15	114 \pm 27	108 \pm 9	63 \pm 8	45 \pm 11	110 \pm 9	127 \pm 12	76 \pm 13	52 \pm 4
DM of leaf petioles (g)	3.8 \pm 0.6	3.4 \pm 0.4	2.6 \pm 0.1	1.7 \pm 0.1	1.1 \pm 0.1	3.3 \pm 0.1	3.0 \pm 0.2	1.5 \pm 0.2	1.0 \pm 0.1
DM of leaf blades (g)	11.5 \pm 1.0	15.2 \pm 1.1	12.1 \pm 0.8	7.7 \pm 0.9	5.7 \pm 0.3	13.5 \pm 0.1	14.5 \pm 0.9	7.6 \pm 0.7	5.1 \pm 0.6
DM of leaves (g)	15.3 \pm 1.2	18.7 \pm 1.0	14.7 \pm 0.8	9.4 \pm 1.0	6.8 \pm 0.4	16.8 \pm 0.1	17.5 \pm 0.9	9.1 \pm 0.8	6.1 \pm 0.7
DM of roots (g)	2.58 \pm 0.49	1.36 \pm 0.26	1.79 \pm 0.32	0.97 \pm 0.10	0.49 \pm 0.03	2.29 \pm 0.36	1.54 \pm 0.14	0.82 \pm 0.09	0.20 \pm 0.05

Table S5. Effect of NaCl and KCl treatment on morphological parameters of *Mentha aquatica* plants. Data are means from 3 replicates \pm SE, each with 3 plants.

Parameter	Control	NaCl (mmol L ⁻¹)				KCl (mmol L ⁻¹)			
		25	50	100	200	25	50	100	200
Leaves (<i>n</i>)	160 \pm 16	79 \pm 24	31 \pm 6	16 \pm 3	13 \pm 2	91 \pm 18	76 \pm 8	52 \pm 09	25 \pm 3
Total length of stems (cm)	84 \pm 6	70 \pm 11	37 \pm 2	36 \pm 6	30 \pm 4	51 \pm 11	55 \pm 4	45 \pm 6	43 \pm 7
DM of stems (g)	0.80 \pm 0.12	0.49 \pm 0.03	0.43 \pm 0.15	0.34 \pm 0.09	0.29 \pm 0.04	0.41 \pm 0.18	0.64 \pm 0.13	0.51 \pm 0.16	0.42 \pm 0.08
DM of leaves (g)	0.90 \pm 0.14	0.73 \pm 0.10	0.25 \pm 0.02	0.18 \pm 0.03	0.21 \pm 0.05	0.52 \pm 0.02	0.44 \pm 0.06	0.36 \pm 0.05	0.19 \pm 0.05
DM of roots (g)	0.12 \pm 0.02	0.08 \pm 0.01	0.10 \pm 0.03	0.05 \pm 0.02	0.08 \pm 0.03	0.09 \pm 0.01	0.08 \pm 0.01	0.08 \pm 0.01	0.05 \pm 0.01

Table S6. Effect of NaCl and KCl treatment on Na⁺ and K⁺ concentration and electrical conductivity (EC) in different parts of *Beta vulgaris* subsp. *vulgaris* var. *cicla* plants. Data are means from 5 replicates \pm SE.

Parameter	Plant part	Control	NaCl (mmol L ⁻¹)				KCl (mmol L ⁻¹)			
			44	87	217	434	44	87	217	434
Na ⁺ (g kg ⁻¹ DM)	Senescent leaf petioles	7.6 \pm 1.0	48.4 \pm 7.5	52.0 \pm 3.9	48.0 \pm 12.3	85.0 \pm 14.4	4.2 \pm 0.3	3.1 \pm 1.4	1.5 \pm 0.2	1.6 \pm 0.1
	Senescent leaf blades	11.6 \pm 1.8	60.6 \pm 7.7	80.0 \pm 3.9	73.1 \pm 16.7	108.9 \pm 17.3	8.8 \pm 1.9	5.7 \pm 0.9	4.5 \pm 0.2	4.7 \pm 0.3
	Old leaf petioles	6.2 \pm 0.7	41.1 \pm 7.6	46.6 \pm 4.1	68.1 \pm 5.1	83.3 \pm 4.4	3.0 \pm 0.7	2.1 \pm 0.2	1.9 \pm 0.2	1.7 \pm 0.1
	Old leaf blades	11.1 \pm 2.8	58.3 \pm 2.6	69.5 \pm 2.4	95.0 \pm 9.8	119.0 \pm 4.7	8.3 \pm 0.9	6.3 \pm 0.2	5.3 \pm 1.1	4.9 \pm 0.3
	Middle leaf petioles	4.6 \pm 0.6	35.1 \pm 5.0	30.7 \pm 4.0	50.5 \pm 2.5	73.8 \pm 3.1	2.7 \pm 0.3	1.4 \pm 0.1	1.1 \pm 0.1	1.0 \pm 0.1
	Middle leaf blades	12.3 \pm 2.3	37.9 \pm 11.3	43.7 \pm 3.7	68.3 \pm 7.3	86.2 \pm 3.9	7.6 \pm 1.4	4.5 \pm 0.1	3.4 \pm 0.5	3.0 \pm 0.1
	Young leaf petioles	2.8 \pm 0.4	17.6 \pm 2.9	22.7 \pm 2.8	33.8 \pm 1.7	48.3 \pm 1.6	2.6 \pm 0.1	1.7 \pm 0.1	1.4 \pm 0.1	1.5 \pm 0.1
	Young leaf blades	9.3 \pm 1.1	31.4 \pm 2.5	32.7 \pm 3.5	43.2 \pm 4.1	60.6 \pm 2.4	8.1 \pm 1.2	4.9 \pm 0.4	3.9 \pm 0.4	3.8 \pm 0.3
	Fine roots	3.5 \pm 0.2	12.7 \pm 0.7	16.3 \pm 1.3	13.8 \pm 1.6	16.5 \pm 1.9	2.02 \pm 0.38	1.23 \pm 0.18	0.83 \pm 0.04	0.78 \pm 0.04
	Middle roots	2.2 \pm 0.5	11.1 \pm 1.0	12.6 \pm 2.8	12.7 \pm 3.0	19.1 \pm 0.7	1.12 \pm 0.02	0.97 \pm 0.04	0.80 \pm 0.06	0.75 \pm 0.00
	Tap root	1.4 \pm 0.3	7.6 \pm 1.0	11.2 \pm 0.4	7.9 \pm 1.7	9.7 \pm 1.8	0.82 \pm 0.14	0.65 \pm 0.03	0.67 \pm 0.04	0.75 \pm 0.06
K ⁺ (g kg ⁻¹ DM)	Senescent leaf petioles	49 \pm 8	49 \pm 12	37 \pm 12	38 \pm 10	35 \pm 3	147 \pm 6	158 \pm 32	156 \pm 15	137 \pm 4
	Senescent leaf blades	52 \pm 10	32 \pm 5	24 \pm 9	30 \pm 2	29 \pm 1	144 \pm 15	152 \pm 14	177 \pm 19	173 \pm 7
	Old leaf petioles	14 \pm 5	18 \pm 8	21 \pm 3	19 \pm 9	20 \pm 5	106 \pm 22	144 \pm 23	178 \pm 5	195 \pm 8
	Old leaf blades	36 \pm 2	28 \pm 1	24 \pm 6	25 \pm 2	19 \pm 2	116 \pm 8	140 \pm 5	201 \pm 7	173 \pm 3
	Middle leaf petioles	13 \pm 3	14 \pm 6	20 \pm 3	23 \pm 9	26 \pm 5	65 \pm 15	104 \pm 10	128 \pm 10	175 \pm 12
	Middle leaf blades	31 \pm 2	20 \pm 1	24 \pm 3	26 \pm 3	18 \pm 1	76 \pm 2	106 \pm 4	154 \pm 23	245 \pm 5
	Young leaf petioles	21 \pm 1	24 \pm 5	30 \pm 5	34 \pm 7	35 \pm 2	60 \pm 13	93 \pm 3	114 \pm 15	165 \pm 10
	Young leaf blades	32 \pm 1	28 \pm 1	29 \pm 2	29 \pm 1	26 \pm 1	55 \pm 5	81 \pm 4	108 \pm 13	196 \pm 10
	Fine roots	13.3 \pm 0.7	8.8 \pm 1.0	9.7 \pm 0.3	9.4 \pm 2.8	10.5 \pm 0.8	32 \pm 1	38 \pm 2	37 \pm 2	35 \pm 3
	Middle roots	16.1 \pm 1.9	10.8 \pm 1.2	9.2 \pm 2.0	9.1 \pm 2.8	10.5 \pm 3.5	34 \pm 4	36 \pm 2	42 \pm 4	49 \pm 3
	Tap root	10.7 \pm 1.7	5.7 \pm 0.2	5.3 \pm 0.4	7.4 \pm 0.9	6.3 \pm 0.9	19 \pm 4	24 \pm 4	21 \pm 5	45 \pm 7
EC (mS m ⁻¹ kg ⁻¹ DM)	Senescent leaf petioles	196 \pm 32	380 \pm 13	348 \pm 20	323 \pm 53	418 \pm 39	373 \pm 18	408 \pm 45	423 \pm 34	392 \pm 9
	Senescent leaf blades	240 \pm 32	375 \pm 41	403 \pm 48	387 \pm 63	455 \pm 41	388 \pm 41	413 \pm 41	487 \pm 42	492 \pm 15
	Old leaf petioles	90 \pm 17	243 \pm 38	277 \pm 23	368 \pm 43	423 \pm 4	320 \pm 54	387 \pm 57	467 \pm 6	497 \pm 14
	Middle leaf petioles	69 \pm 6	193 \pm 33	218 \pm 26	300 \pm 22	390 \pm 10	212 \pm 42	323 \pm 26	375 \pm 28	482 \pm 31
	Middle leaf blades	158 \pm 11	263 \pm 4	285 \pm 19	378 \pm 27	410 \pm 18	268 \pm 12	352 \pm 17	443 \pm 46	637 \pm 13
	Young leaf petioles	76 \pm 3	137 \pm 22	172 \pm 21	253 \pm 13	312 \pm 2	193 \pm 38	275 \pm 3	305 \pm 32	403 \pm 21
	Young leaf blades	135 \pm 5	197 \pm 12	202 \pm 19	278 \pm 16	325 \pm 10	198 \pm 18	250 \pm 9	290 \pm 27	465 \pm 15
	Fine roots	66 \pm 2	93 \pm 2	108 \pm 3	101 \pm 5	115 \pm 8	112 \pm 3	132 \pm 7	125 \pm 8	117 \pm 6
	Middle roots	68 \pm 9	90 \pm 7	81 \pm 17	92 \pm 1	117 \pm 13	111 \pm 12	115 \pm 5	133 \pm 10	153 \pm 350 \pm
	Tap root	50 \pm 7	64 \pm 5	78 \pm 3	74 \pm 3	74 \pm 4	67 \pm 13	86 \pm 8	77 \pm 13	148 \pm 20

Table S7. Effect of NaCl and KCl treatment on Na⁺ and K⁺ concentration and electrical conductivity (EC) in different parts of *Beta vulgaris* subsp. *maritima* plants. Data are means from 5 replicates \pm SE.

Parameter	Plant part	Control	NaCl (mmol L ⁻¹)				KCl (mmol L ⁻¹)	
			44	87	217	434	44	434
Na ⁺ (g kg ⁻¹ DM)	Senescent leaf petioles	6.0 \pm 0.9	47.7 \pm 4.9	54.9 \pm 3.9	62.4 \pm 9.9	85.4 \pm 10.1	1.98 \pm 0.30	1.89 \pm 0.33
	Senescent leaf blades	8.5 \pm 0.6	62.3 \pm 7.9	58.1 \pm 5.9	90.0 \pm 10.5	93.0 \pm 16.4	4.55 \pm 0.25	3.74 \pm 0.70
	Old leaf petioles	6.9 \pm 2.0	40.5 \pm 3.5	52.5 \pm 1.4	61.0 \pm 2.5	72.7 \pm 7.8	1.63 \pm 0.15	1.46 \pm 0.17
	Old leaf blades	8.0 \pm 1.3	53.1 \pm 8.3	54.6 \pm 5.6	90.0 \pm 13.9	90.0 \pm 13.1	4.38 \pm 0.58	3.26 \pm 0.52
	Middle leaf petioles	6.0 \pm 1.9	24.8 \pm 3.0	41.4 \pm 0.7	51.8 \pm 2.0	57.9 \pm 8.7	1.55 \pm 0.28	1.45 \pm 0.15
	Middle leaf blades	8.8 \pm 1.6	30.0 \pm 3.7	44.1 \pm 6.3	59.8 \pm 4.3	63.4 \pm 10.3	4.52 \pm 0.78	2.41 \pm 0.40
	Young leaf petioles	4.7 \pm 0.9	18.9 \pm 0.6	24.3 \pm 2.7	36.2 \pm 4.5	43.8 \pm 5.7	1.32 \pm 0.22	2.03 \pm 0.66
	Young leaf blades	6.3 \pm 0.6	18.2 \pm 1.0	22.8 \pm 2.5	35.3 \pm 5.0	40.5 \pm 5.6	3.48 \pm 0.57	1.85 \pm 0.33
	Small leaf petioles	9.2 \pm 2.6	35.1 \pm 3.4	49.8 \pm 3.7	55.4 \pm 4.7	64.5 \pm 8.8	1.85 \pm 0.30	1.59 \pm 0.07
	Small leaf blades	9.0 \pm 1.3	43.6 \pm 2.0	60.1 \pm 8.5	60.6 \pm 5.8	70.0 \pm 8.8	4.62 \pm 0.61	2.65 \pm 0.41
	Fine roots	1.5 \pm 0.4	5.6 \pm 0.9	10.2 \pm 0.6	9.0 \pm 0.5	9.5 \pm 2.0	0.98 \pm 0.20	0.73 \pm 0.04
	Middle roots	1.6 \pm 0.4	3.7 \pm 0.9	6.5 \pm 0.6	8.8 \pm 2.8	13.0 \pm 3.8	0.60 \pm 0.08	0.92 \pm 0.09
	Tap root	1.2 \pm 0.2	2.6 \pm 0.4	4.6 \pm 0.4	4.1 \pm 0.3	9.8 \pm 2.3	0.47 \pm 0.04	0.83 \pm 0.12
K ⁺ (g kg ⁻¹ DM)	Senescent leaf petioles	22.0 \pm 3.8	29.2 \pm 12.5	12.0 \pm 2.1	19.1 \pm 3/0	16.9 \pm 4.7	66 \pm 11	139 \pm 23
	Senescent leaf blades	26.5 \pm 5.6	22.6 \pm 10.7	11.9 \pm 1.9	17.2 \pm 4.1	11.0 \pm 2.6	75 \pm 10	155 \pm 24
	Old leaf petioles	8.3 \pm 1.9	14.2 \pm 4.9	11.6 \pm 2.7	23.4 \pm 5.2	11.9 \pm 2.6	68 \pm 10	158 \pm 18
	Old leaf blades	13.7 \pm 2.7	13.7 \pm 4.9	11.4 \pm 2.3	17.5 \pm 2.1	10.5 \pm 1.5	72 \pm 6	198 \pm 19
	Middle leaf petioles	11.8 \pm 1.0	14.9 \pm 3.8	11.4 \pm 1.1	26.4 \pm 3.9	11.3 \pm 2.2	53 \pm 10	150 \pm 18
	Middle leaf blades	14.5 \pm 1.0	15.4 \pm 4.4	11.1 \pm 1.1	24.6 \pm 3.5	12.0 \pm 1.3	53 \pm 7	168 \pm 25
	Young leaf petioles	16.8 \pm 2.2	24.7 \pm 5.1	17.0 \pm 1.1	32.9 \pm 6.4	14.2 \pm 1.7	39 \pm 6	115 \pm 13
	Young leaf blades	16.2 \pm 1.2	21.7 \pm 4.7	14.9 \pm 1.2	28.9 \pm 5.0	15.0 \pm 1.4	37 \pm 5	115 \pm 9
	Small leaf petioles	16.0 \pm 2.3	16.7 \pm 4.2	11.4 \pm 0.7	33.9 \pm 3.4	13.6 \pm 1.6	68 \pm 6	148 \pm 8
	Small leaf blades	12.8 \pm 1.4	15.6 \pm 3.3	10.1 \pm 0.6	28.9 \pm 3.8	11.5 \pm 1.4	68 \pm 8	181 \pm 20
	Fine roots	21.8 \pm 5.6	13.8 \pm 2.9	12.6 \pm 2.8	2.4 \pm 0.5	2.4 \pm 0.3	27 \pm 9	51 \pm 11
	Middle roots	17.8 \pm 1.0	25.8 \pm 11.8	14.7 \pm 2.5	5.1 \pm 0.7	5.0 \pm 1.0	24 \pm 8	89 \pm 22
	Tap root	12.3 \pm 1.5	17.4 \pm 6.9	11.6 \pm 0.5	4.1 \pm 0.7	5.0 \pm 0.8	14 \pm 5	89 \pm 24
EC (mS m ⁻¹ kg ⁻¹ DM)	Senescent leaf petioles	104 \pm 17	279 \pm 21	299 \pm 26	276 \pm 17	424 \pm 48	282 \pm 48	488 \pm 46
	Senescent leaf blades	114 \pm 17	322 \pm 19	308 \pm 21	382 \pm 22	440 \pm 25	328 \pm 33	553 \pm 61
	Old leaf petioles	68 \pm 11	224 \pm 16	291 \pm 7	274 \pm 31	375 \pm 20	282 \pm 34	534 \pm 36
	Middle leaf petioles	72 \pm 7	165 \pm 16	251 \pm 8	255 \pm 15	318 \pm 29	212 \pm 35	444 \pm 46
	Middle leaf blades	98 \pm 11	189 \pm 12	255 \pm 22	268 \pm 15	339 \pm 22	228 \pm 22	530 \pm 51
	Young leaf petioles	84 \pm 11	163 \pm 6	203 \pm 10	223 \pm 7	277 \pm 18	155 \pm 17	393 \pm 34
	Young leaf blades	93 \pm 6	155 \pm 7	190 \pm 5	211 \pm 6	265 \pm 12	160 \pm 13	388 \pm 22
	Small leaf petioles	101 \pm 15	204 \pm 14	273 \pm 14	267 \pm 19	330 \pm 22	272 \pm 22	511 \pm 38
	Small leaf blades	90 \pm 10	238 \pm 14	311 \pm 29	277 \pm 16	354 \pm 25	282 \pm 14	571 \pm 28
	Fine roots	38 \pm 9	42 \pm 4	63 \pm 2	67 \pm 3	69 \pm 9	78 \pm 8	120 \pm 8

	Middle roots	32 ± 1	38 ± 4	53 ± 5	97 ± 19	91 ± 16	62 ± 6	203 ± 18
	Tap root	21 ± 1	29 ± 3	41 ± 3	50 ± 5	81 ± 12	38 ± 5	200 ± 23

Table S8. Effect of NaCl and KCl treatment on Na⁺ and K⁺ concentration and electrical conductivity (EC) in different parts of *Cochlearia officinalis* plants. Data are means from 5 replicates \pm SE.

Parameter	Plant part	Control	NaCl (mmol L ⁻¹)				KCl (mmol L ⁻¹)			
			44	87	217	434	44	87	217	434
Na ⁺ (g kg ⁻¹ DM)	Leaf petioles	2.7 \pm 0.4	24.5 \pm 1.8	29.6 \pm 3.8	38.5 \pm 7.1	43.7 \pm 5.8	1.14 \pm 0.03	1.08 \pm 0.09	1.43 \pm 0.13	1.95 \pm 0.15
	Leaf blades	2.9 \pm 0.5	24.9 \pm 1.8	35.8 \pm 8.1	49.5 \pm 4.1	52.6 \pm 5.1	2.01 \pm 0.06	1.81 \pm 0.37	2.07 \pm 0.16	2.36 \pm 0.27
	Roots	3.8 \pm 1.6	10.8 \pm 1.9	12.0 \pm 0.7	8.5 \pm 1.2	9.5 \pm 1.8	0.58 \pm 0.04	0.77 \pm 0.04	0.68 \pm 0.03	0.99 \pm 0.09
K ⁺ (g kg ⁻¹ DM)	Leaf petioles	13.2 \pm 4.8	17.5 \pm 2.3	27.1 \pm 2.3	26.1 \pm 5.2	33.0 \pm 6.7	75.8 \pm 3.0	80.8 \pm 3.0	140.0 \pm 7.6	215.8 \pm 8.5
	Leaf blades	8.0 \pm 2.4	12.2 \pm 3.6	8.7 \pm 0.4	7.7 \pm 1.0	12.2 \pm 1.6	54.2 \pm 3.0	50.8 \pm 4.8	100.0 \pm 15.1	172.3 \pm 26.2
	Roots	6.4 \pm 1.8	5.6 \pm 1.2	6.8 \pm 0.7	12.0 \pm 2.3	9.6 \pm 1.4	18.3 \pm 2.2	31.3 \pm 1.6	31.4 \pm 2.2	48.9 \pm 11.9
EC (mS m ⁻¹ kg ⁻¹ DM)	Leaf petioles	97 \pm 19	172 \pm 27	255 \pm 15	280 \pm 38	298 \pm 36	238 \pm 11	261 \pm 6	387 \pm 17	572 \pm 25
	Roots	52 \pm 6	85 \pm 10	90 \pm 3	92 \pm 10	105 \pm 15	75 \pm 9	115 \pm 5	110 \pm 9	165 \pm 30

Table S9. Effect of NaCl and KCl treatment on Na⁺ and K⁺ concentration and electrical conductivity (EC) in different parts of *Mentha aquatica* plants. Data are means from 5 replicates \pm SE.

Parameter	Plant part	Control	NaCl (mmol L ⁻¹)				KCl (mmol L ⁻¹)			
			25	50	100	200	25	50	100	200
Na ⁺ (g kg ⁻¹ DM)	Leaves	2.3 \pm 0.1	21.8 \pm 2.3	33.0 \pm 0.8	40.5 \pm 2.5	35.8 \pm 4.2	0.73 \pm 0.05	0.68 \pm 0.01	0.96 \pm 0.04	0.93 \pm 0.07
	Stems	2.5 \pm 0.2	14.3 \pm 0.8	28.1 \pm 2.7	28.9 \pm 2.7	86.0 \pm 8.5	0.84 \pm 0.04	1.08 \pm 0.17	0.99 \pm 0.04	1.73 \pm 0.02
	Roots	6.5 \pm 0.5	13.6 \pm 0.9	15.2 \pm 1.4	17.5 \pm 0.3	10.2 \pm 1.0	1.25 \pm 0.05	0.92 \pm 0.10	0.78 \pm 0.08	1.11 \pm 0.05
K ⁺ (g kg ⁻¹ DM)	Leaves	52 \pm 2	33 \pm 4	15 \pm 1	14 \pm 1	12 \pm 1	58 \pm 3	63 \pm 2	144 \pm 8	143 \pm 14
	Stems	87 \pm 2	61 \pm 4	40 \pm 2	40 \pm 3	30 \pm 2	78 \pm 3	82 \pm 9	88 \pm 9	131 \pm 4
	Roots	54 \pm 3	46 \pm 4	30 \pm 5	9 \pm 2	3 \pm 1	62 \pm 2	61 \pm 2	38 \pm 3	25 \pm 4
EC (mS m ⁻¹ kg ⁻¹ DM)	Stems	164 \pm 2	167 \pm 6	163 \pm 12	164 \pm 12	328 \pm 14	232 \pm 11	252 \pm 23	228 \pm 27	378 \pm 8
	Roots	80 \pm 4	102 \pm 9	107 \pm 13	86 \pm 8	38 \pm 5	166 \pm 6	187 \pm 7	92 \pm 12	52 \pm 4