## SUPPLEMENTARY INFORMATION FOR THE MANUSCRIPT

## Effects of food salinization on terrestrial crustaceans *Porcellio* scaber

Pavlína Škarková<sup>a\*</sup>, Anita Jemec<sup>b</sup>, Monika Kos<sup>b</sup>, Damjana Drobne<sup>b</sup>, Milada Vávrová<sup>a</sup>

<sup>a</sup> Brno University of Technology, Faculty of Chemistry, Purkyňova 118, 612 00 Brno, Czech Republic

<sup>b</sup> University of Ljubljana, Biotechnical Faculty, Department of Biology, Večna pot 111, 1000 Ljubljana, Slovenia

\*Corresponding author:

Anita Jemec, anita.jemec@bf.uni-lj.si

Biotechnical Faculty, University of Ljubljana

Večna pot 111

1000 Ljubljana

Slovenia

## The Supplementary Data comprises:

**Figure S1.** Avoidance response of isopods *Porcellio scaber* exposed to clean Lufa 2.2 soil (0, control) and soil contaminated with individual salt ((A) NaCl, (B) NaNO<sub>3</sub> (C) KCl, and (D) KNO<sub>3</sub>) simultaneously for 48 hours.

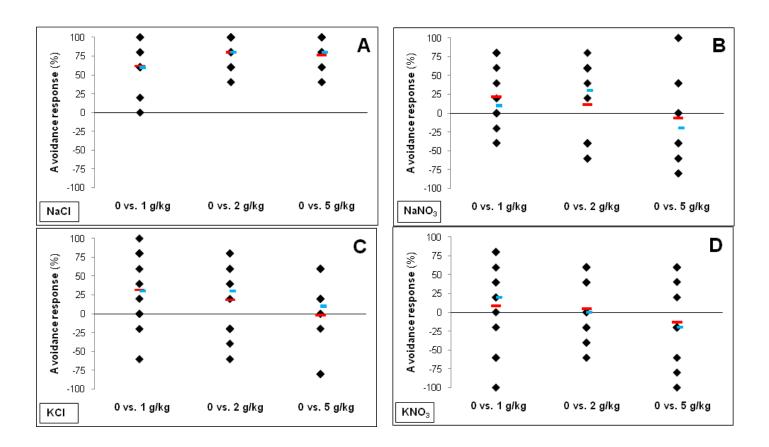
**Table S1.** Nominal mass and molar concentrations of salts (NaCl, NaNO<sub>3</sub>, KCl, and KNO<sub>3</sub>) and corresponding ions used in 14-days feeding and soil choice tests with isopods *Porcellio scaber*.

**Figure S1.** Avoidance response of isopods *Porcellio scaber*. Animals were exposed simultaneously to clean Lufa 2.2 soil (0) and Lufa 2.2 soil contaminated with individual salt: (A) NaCl, (B) NaNO<sub>3</sub>, (C) KCl, or (D) KNO<sub>3</sub> for 48 hours in controlled laboratory conditions. The data are presented as values of the avoidance response (AR) of individual animals. Avoidance response was evaluated according to ISO (2008) criteria:

$$AR = \frac{(n_t - n_c)}{N} \times 100$$

where,  $n_t$  - number of visits on contaminated side;  $n_c$  - number of visits on control side; N - total number of visits.

(x axis – salt concentration in g/kg dry soil; vs. – versus; N of animals per concentration was 12; black diamond – individual value; red line – mean; blue line - median).



Salt ion	Molar mass	Mass concentration [g/kg] (Molar concentration [mM])		
Salt, ion	[g/mol]			
NaCl	58.4428	1 (17.11)	2 (34.22)	5 (85.55)
$Na^+$	22.9898	0.393 (17.11)	0.787 (34.22)	1.967 (85.55)
Cl	35.4530	0.607 (17.11)	1.213 (34.22)	3.033 (85.55)
NaNO <sub>3</sub>	84.9947	1 (11.77)	2 (23.53)	5 (58.83)
$Na^+$	22.9898	0.270 (11.77)	0.541 (23.53)	1.352 (58.83)
$NO_3^-$	62.0049	0.730 (11.77)	1.459 (23.53)	3.648 (58.83)
KCl	74.5513	1 (13.41)	2 (26.83)	5 (67.07)
$\mathbf{K}^+$	39.0983	0.525 (13.41)	1.049 (26.83)	2.622 (67.07)
Cl	35.4530	0.476 (13.41)	0.951 (26.83)	2.378 (67.07)
KNO <sub>3</sub>	101.1032	1 (9.89)	2 (19.78)	5 (49.45)
$\mathbf{K}^+$	39.0983	0.387 (9.89)	0.773 (19.78)	1.934 (49.45)
$NO_3^-$	62.0049	0.613 (9.89)	1.227 (19.78)	3.066 (49.45)

**Table S1**. Nominal mass and molar concentrations of salts (NaCl, NaNO<sub>3</sub>, KCl, and KNO<sub>3</sub>) and corresponding ions used in 14-days feeding and soil choice tests with isopods *Porcellio scaber*.