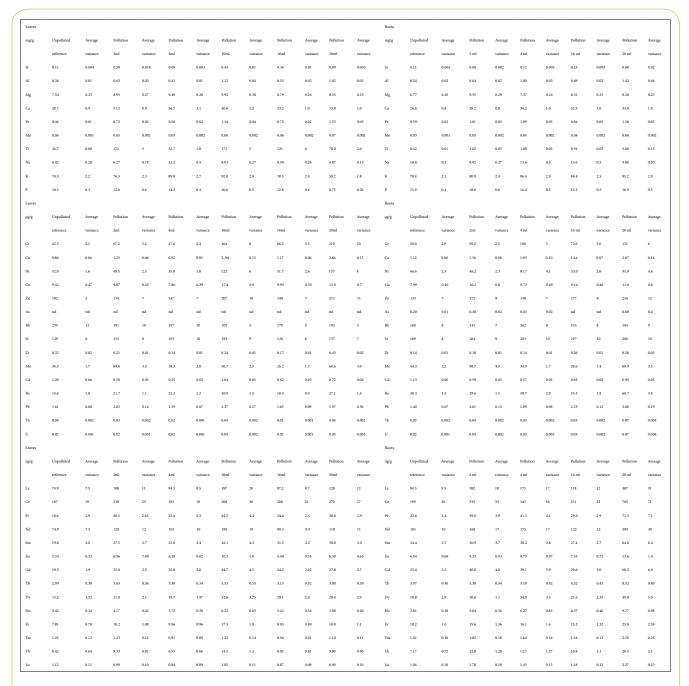
Supplementary File



 $Average\ variance\ outlines\ the\ average\ of\ 5\ analyses\ completed\ on\ each\ set\ of\ data;\ nd\ stands\ for\ not\ determined$

Table 1: Chemical composition of roots and leaves of Raphanus *sativus* from unpolluted soil and from soils contaminated with oil. The concentrations of major and trace elements are expressed in mg/g of dried plant, and those of REEs in 10-3 $\mu g/g$. All elements analyzed five times yield an average variance provided for each.

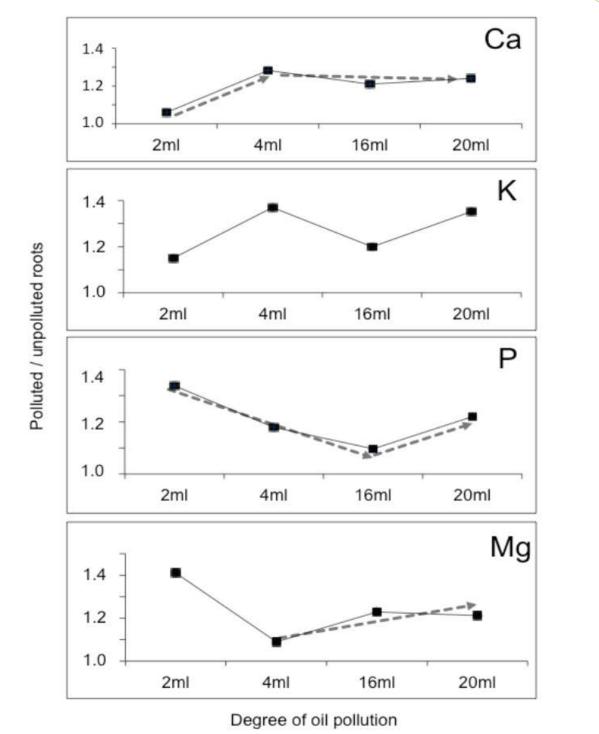


Figure 1: Ratios of some major-element concentrations in roots of Raphanus *sativus* from soils polluted by increasing crude oil pollution and the major-element concentrations in the roots of the same radishes grown in the equivalent unpolluted soil. Smaller than the size of the symbols, the relative errors are not included.

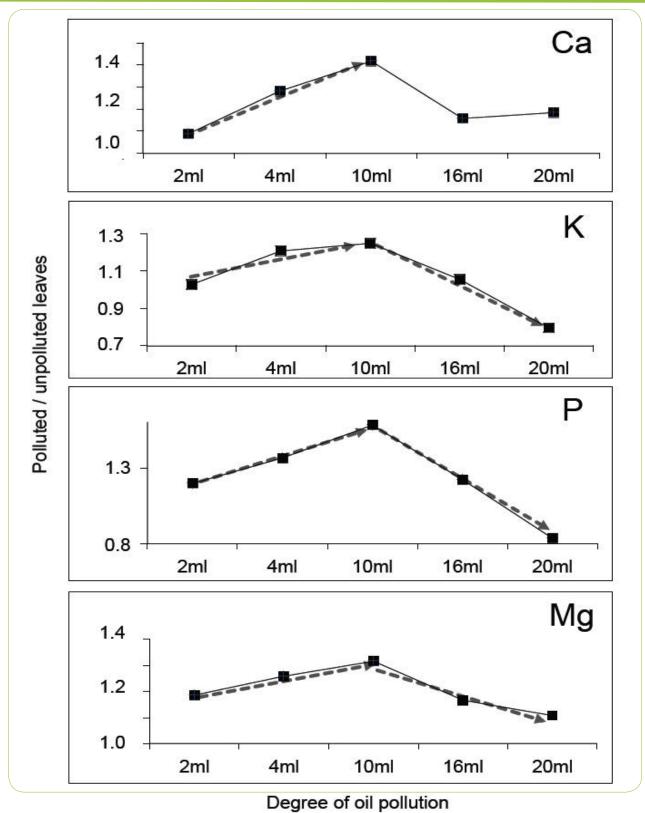


Figure 2: Ratios of some major-element concentrations in leaves of Raphanus *sativus* from soils polluted by increasing crude oil and the major-element concentrations in the leaves collected from the same radishes grown in the equivalent unpolluted soil. Smaller than the size of the symbols, the relative errors are not included.

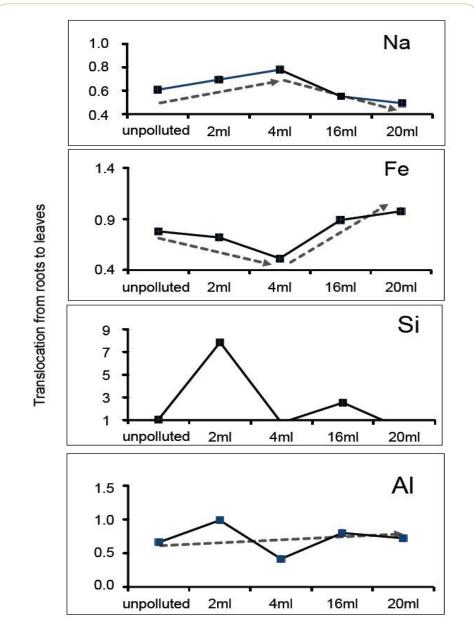


Figure 3: Translocation ratio of some major elements from roots to leaves of Raphanus *sativus* grown in the unpolluted soil and in progressively polluted soils. The relative errors are plotted in the diagrams when larger than the symbols.

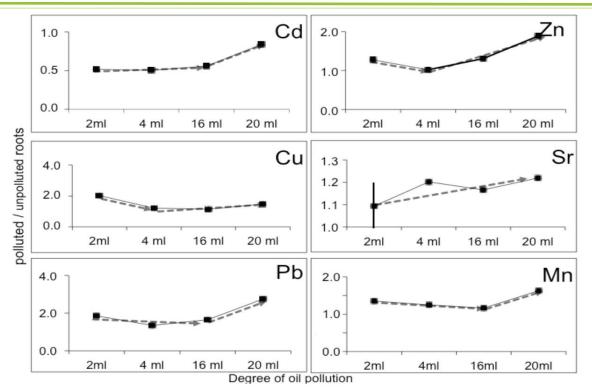


Figure 4: Ratios of some trace-element concentrations in roots of Raphanus *sativus* from polluted soils relative to increasing crude oil pollution and of the same trace-element concentrations in the radishes from unpolluted soils. The relative errors are plotted in the diagrams when larger than the symbols.

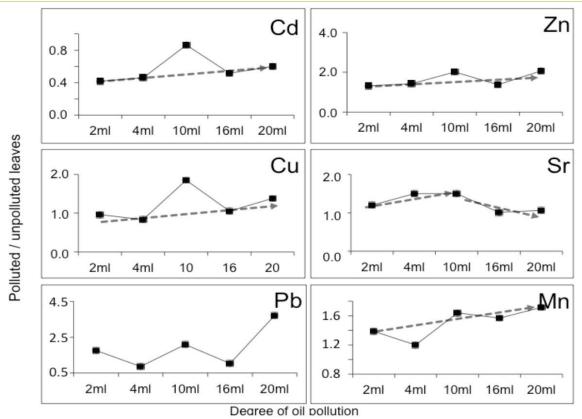


Figure 5: Ratios of some trace-element concentrations in leaves of Raphanus *sativus* from polluted soils relative to increasing crude oil pollution and of the same trace-element concentrations in the radishes from unpolluted soils. Smaller than the size of the symbols, the relative errors are not included.

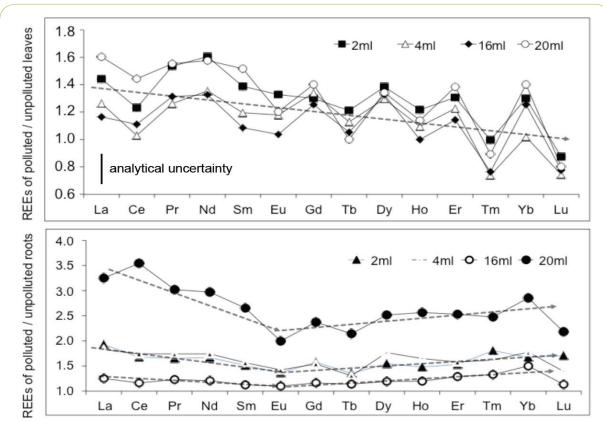


Figure 6: REE distribution patterns of leaves and roots of Raphanus *sativus* from polluted soils with crude oil normalized to the REE patterns in the corresponding leaves and roots of the same radishes of the unpolluted soil. The analytical uncertainty is drafted in the upper

