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Bouchardon, J. L.
Le Guedard, M.
Bessoule, J. J.
Conord, C.
Faure, O.

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Are plants useful as accumulation indicators of metal bioavailability?

E. Remon^{a,c}, J.-L. Bouchardon^{a,b,c}, M. Le Guedard^{a,b,c}, J.-J. Bessoule^{a,c,f}, C. Conord^{a,b,c}, O. Faure^{a,b,c,g}

^aInstitut de Vegetation et d'Ecologie Evolutive et Fonctionnelle, UMR 5175 CNRS, Montpellier, France
^bUMR 5080 CNRS, UMR 5175 CNRS, Montpellier, France
^cUMR 5080 CNRS, UMR 5175 CNRS, Montpellier, France
^dUMR 5080 CNRS, UMR 5175 CNRS, Montpellier, France
^eUMR 5080 CNRS, UMR 5175 CNRS, Montpellier, France
^fUMR 5080 CNRS, UMR 5175 CNRS, Montpellier, France
^gUMR 5080 CNRS, UMR 5175 CNRS, Montpellier, France

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ABSTRACT

The use of accumulation bioindicator to assess metal bioavailability has mainly concerned individual species. This work addresses this issue at the plant community level. Metal content within different species from plant communities found at three contaminated and one uncontaminated site was compared. Results showed that for two contaminated sites, leaf metal concentrations were comparable to those in plants from control site. In approx (mg/kg) 1 Cu, 0.2 Cr, 0.2 Ni, 0.3 Pb and 42 Zn. Only plants from the field site showed higher metal contents, ranging from 1.5 to 8.64 those of the control community. This contrasted with ammonium acetate–EDTA extractions, which indicated a very high availability of metals at the three sites, as compared to the control site. Thus, metal content in plant communities provided accurate information on actual transfer toward the ensemble of vegetation, which could be used to establish the specific “signature” of metal bioavailability.

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1. Introduction

During the last two decades there has been an increasing awareness of the potential adverse effects of soil pollution by trace metals (Adriani, 2001). As a consequence, assessing soil metal contamination is today of major interest for governments and regulators who are concerned with public health and sustainable development policies (Fairbrother et al., 2007). A number of standardized procedures have been developed for rapid, precise and reliable measurement of total metal content in soils (AFNOR, 1994, 2001, 2002). Nevertheless, it is obvious that metal toxicity in soils depends on complex geochemical and biological interactions (Van Gestel, 2008). In fact, where studying metal-enriched soils, one of the main questions is whether contaminants can be transferred to living organisms, i.e. whether these metals are bioavailable (Scheckel et al., 2006). Indeed, a number of chemical extraction methods have been developed for assessing the likelihood of a metal's bioavailability. Basically, these methods use more or less strong extractants, either in single step protocols (Pickett, 1980; Trouba et al., 1990, 1998) or in sequential extraction procedures (Tessier et al., 1989; Quevauviller et al., 1997). However, although these approaches have brought significant knowledge about interactions between metals and soil components, they seldom can predict the fraction of metal actually interacting with living organisms (McLaughlin et al., 2000; Van Gestel, 2008; Wilson et al., 2009; Moustier et al., 2011). Consequently, development of supplemental methods to evaluate the bioavailability of metals remains necessary (Doronzo-Jimenez et al., 2011). From this standpoint, the use of bioindicators (Pérez et al., 2011; Le Guedard et al., 2012) is a simple and efficient complementary approach to chemical extraction procedures.

Bioindicators are organisms that help study the level (“accumulation bioindicators”) and/or impact (“effect bioindicators”) of pollutants in the environment. Measuring the content of metals or other toxic compounds in these living organisms is of great interest to assess the actual bioavailability of contaminants. During the last

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