Genome-wide reference expression profiles for natural soils

Reference gene expression profiles will be set up for a wide range of typical soils. Soils will be chosen based on a range of physico-chemical factors such as pH and organic matter. The idea is to investigate how the iSQ behaves when factors other than contamination are varied. Wherever possible, the range of soils will be harmonized with the needs from other projects of the Ecogenomics programme (specifically the projects on nematodes and plants) and external parties. A possibility is the use of five Eurosoils, which are very well characterized and used in inter-laboratory comparisons across Europe. To this set LUFA 2.2 soil and OECD artificial soil can be added as two other widely used reference materials. Also a link will be made with the ongoing projects on the development of a biological soil indicator in The Netherlands (Schouten et al. 2002) and the German "biologische Gutachten" classification (Römbke et al. 1999; Ruf et al. 2003).


This project is part of the "Assessing the living soil: an ecogenomics approach to sustainable life-support functions" project.

Duration

4 years (September 2004-August 2008)

Participants

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