

*Emilie Tisserant*

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Emilie Tisserant is designing and building a relational MySQL/PHP database to store, mine, distribute and query the sequence information produced by 454 and Illumina sequencing of EcoFINDERS soil LTOs. It provides a comprehensive point-and-click interface which allows one to search the sequence data on various criteria and display results in different formats. The sequence information will be linked to the LTO soil metadata and to the EcoFINDERS CEH warehouse database

*Within the framework of EcoFINDERS WP3, INRA-Nancy (Ecogenomics Lab) is developing bioinformatics pipelines and workflows for processing sequence datasets produced by sequencing of soil microbial DNA from LTOs. The aim is to characterize the microbial genetic and functional diversity in LTO soils via (1) large scale surveys of ribosomal DNA sequences and (2) a targeted approach based on functional gene sequencing and comparative genomics of keystone species. A bioinformatician engineer (J Lengellé), a PhD student (T Payen) and a postdoctoral computational biologist (E Tisserant) are working on the different steps of this WP3 task: analyzing species diversity, identifying functional gene diversity and data.*