



OLHA KHOMENKO

ESR9: MODELING SOIL P DYNAMICS AND P CYCLING IN SOILS
AMENDED WITH ORGANIC WASTE

Olha is a Ukrainian PhD student at the University of Limerick and Teagasc

Research goals and focus:

- The aim of ESR9 is to evaluate the impact of DPW application on soil P pools and availability, soil P dynamics and access risk of P losses due to leaching.
- Bench top, pot, and field scale experiments will be conducted to study interactions between native soil P and P delivered from DPW.
- Bench top experiment will involve experiments with autoclaved and live soil, and the main target of the experiment is to investigate soil P dynamics in the soil.
- Pot and field scale experiments involving ryegrass growing in soils undergoing different DPW treatments will allow to measure soil P dynamics and transformation in temperate soil under real condition in conjunction with grass growth.

Expected results: A model of chemical and biological interaction will be established using data from isotope studies and NMR analysis, and soil enzyme activity.

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