

NANO-ENAG - Use of nanomaterials for environmental and agricultural applications
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The aim of the joint research programme is to study nanomaterials for environmental and agricultural applications. The global objectives of this project will be:

- to synthesize and characterize low cost nanomaterials such as layered double hydroxides (LDHs) or fine grained poorly crystalline Fe-Al or Fe-Mn oxides. These nanomaterials will be used in native form and complexed with an organic matrix, named polymerin, recovered from olive mill wastewaters (OMW);
- to study the behaviour of nanomaterials for retention of pesticides and biophenols and to develop slow-release formulations of these chemicals, with particular emphasis on assessing their bioavailability;
- to totally detoxify OMW through fractionation on nanomaterials.

Coordinator

UNIVERSITÀ DEGLI STUDI DI NAPOLI FEDERICO II (Italy)

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Project cost -

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Contract type International Research Staff Exchange Scheme