

## Workplan

The European agricultural systems are based on a very limited number of crops, therefore extremely exposed to the effects of climate change. Increasing crop diversification by exploiting the effect of crop diversification with the introduction of innovative crop rotation schemes can increase, on the one hand, the resilience of cropping systems; on the other, their economic and environmental sustainability. Multifunctional oilseed species (i.e. carinata, camelina) are particularly resilient to abiotic stress, still very little widespread in European production systems. In the CARINA project, these oil crops are studied as a new oilseed suitable for inclusion in differentiated agricultural systems (cover cropping, relay cropping, intercropping), so as not to compete directly with food production.

Moreover, the implementation of innovative cropping systems (i.e. co cropping) could further help on the fight against the climate change effects in agricultural and polluted lands. The EDAPHOS project looks into a holistic and innovative land management approach to contribute to the Mission “A Soil Deal for EU”. EDAPHOS will develop a framework for land rehabilitation and ecological restoration of contaminated areas featuring nature-based solutions technologies, to accelerate the recovery of contaminated lands to a healthy ecosystem status and making ecological restoration a mainstream business endeavor.

On the basis of the above, the research fellow is required to have good knowledge of non-food species, cropping systems and phytoremediation, good knowledge of written and spoken English, basic knowledge of experimental statistical methodology, with particular reference to agronomic and intercropping trials, and a great aptitude for teamwork.

The activity will be carried out under the supervision of Prof. Andrea Monti.

### WORKPLAN

- The project work plan includes the following activities:
- Definition of experimental protocols for field and/or controlled environment trials;
- Support / carry on experimental trials
- Data collection of morpho-physiological trait
- Data analysis
- Support on report writing
- Participation to project technical meetings