## Abstract – SY15

## GENETIC DIVERSITY OF WILD OLIVES (*OLEA EUROPAEA* SUBSP. *EUROPAEA* VAR. *SYLVESTRIS*) IN NORTHERN ALGERIA

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Olive is one of the most important economic crops in the Mediterranean Basin, where, however, the climatic changes are endangering its survival. In order to be prepared, it is important to have genetic reserves that can help to face the future challenges. In this frame, the safeguarding of the genetic heritage is an important element, and in the case of the olive tree, the genetic variability present in the wild species becomes fundamental.

In this study 174 samples of oleaster collected in different part of Algeria were analysed. by using 16 SSR. The genetic analysis showed a huge genetic variability in the oleaster, and STRUCTURE and PcoA analysis pointed out the clusterisation of genotypes according to their geographic origin and bioclimatic conditions. In particular, it was identified genotypes adapted to difficult climatic conditions in order to enrich the panel of olive cultivars and preserve this genetic diversity from the erosion risk.