1. Line of research

Identification of resistance genes against *Plasmopara viticola* in grapevine

2. ERC descriptor

LS9_4 - Applied plant sciences (including crop production, plant breeding, agroecology, forestry, soil biology)

3. Job description

We invite post-doc students to develop a research project which aims to identify the key genes in the resistance mechanism against *Plasmopara viticola* in grapevine cultivars from the Caucasus, through an RNA interference and genome editing approach.

4. We offer

✓ The winner which will choose this line of research will work in the research group of Arboriculture-Viticulture.

✓ Application of the top cutting-edge techniques used in molecular biology for gene silencing, such as dsRNA and CRISPR.

✓ Multidisciplinary working environment ranging from phenotyping to genotyping, from physiology to plant pathology.

5. Desired skills

A proven knowledge of molecular biology techniques, such as DNA and RNA extraction, primer design, PCR, real-time PCR, cloning, and *in vitro* culture is required. Knowledge of the English language is welcome.

6. Contacts

For additional information on this line of research, please contact Dr. Lucio Brancadoro (lucio.bracadoro@unimi.it) o Dr. Gabriella De Lorenzis (gabriella.delorenzis@unimi.it).