



## Seminar announcement

Friday March 15<sup>th</sup> 2024 2:30 PM

Dipartimento di Scienze Agroalimentari, Ambientali e Animali  
Sala dei Cereali, via delle Scienze 206, Udine

# How to CRISPR your plants: genome editing applications in plant science and agriculture

Dr. Damiano Martignago

**Abstract** This workshop provides essential knowledge and practical skills for effective plant genome editing. Beginning with inspiring success stories, participants will understand the transformative potential of genome editing in agriculture. Participants will learn how to design guide RNAs, choose appropriate plasmids, and learn how to assemble plasmids with techniques like Golden Gate cloning. Emphasizing meticulous planning, the workshop highlights the immediate importance of genotyping strategies, including restriction analysis, Sanger sequencing, and Next-Generation Sequencing (NGS).



**About the speaker** Damiano Martignago has been a Researcher at the University of Milan since 2020. Before that, he worked as a Genome Editing Specialist at the CRAG in Barcelona and at Rothamsted Research in the UK. He obtained his PhD at the University of Roma Tre in 2014 and started working with CRISPR immediately after it was made available to the scientific community, falling in love with the possibilities opened up by this revolutionary technology. He is now a plant geneticist, routinely applying genome editing approaches to rice, wheat, and tomato and model plants like *Arabidopsis thaliana*.