

LEGUMINOSE Summer School

Modelling Intercropping Systems

From Analysis to Decision Making

 6 – 9 July 2026BOKU University, Vienna,
Austria

About the Summer School

Intercropping offers a sustainable and resilient alternative to monoculture farming. Yet, designing site-specific intercrops that balance complementarity and competition remains a challenge. Scenario analysis using crop modelling can facilitate this process.

This summer school provides participants with theoretical foundations and hands-on experience to model intercropping systems using the process-based InterCrop model, developed within the EU-funded LEGUMINOSE project (www.leguminose.eu).

Who Should Attend

Master's and PhD students, postdocs, and professionals interested in crop modelling and intercropping. Open to both beginners and those with previous modelling experience.

Program Details

This summer school combines lectures and hands-on training with the InterCrop model. The following topics will be covered:

- Intercropping systems: benefits and challenges
- Complementarity, facilitation, and competition processes in intercrops
- Principles of process-based crop modelling (SSM-iCrop framework)
- The InterCrop model: design, structure, and implementation
- LEGUMINOSE – A web-based decision support system for intercropping

Organisers and Lecturers

- Ahmad M. Manschadi (*Assoc. Prof. of Crop Physiology and Modelling, BOKU University, Vienna, Austria*)
- Tom Sizmur (*Prof. of Environmental Chemistry, University of Reading, UK*)
- Sabine Seidel (*Prof. of Organic Farming, BOKU University, Vienna, Austria*)
- Leonardo A. Monteiro (*Postdoc in Crop Modelling, BOKU University, Vienna, Austria*)

Participant Requirements

- Good command of English
- Basic knowledge of agronomy and crop physiology
- Working proficiency in Microsoft Excel

Registration Details

- Participation is limited to 30 participants
- Registration deadline: **14 June 2026**
- Fees: **€200 per person** to cover course materials, refreshments, lunches, and one social dinner. The fee **does NOT cover travel and accommodation costs**.

Contact information

For more information, please contact Dr. Ahmad M. Manschadi (manschadi@boku.ac.at)

**Register here!****Funded by**
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