Requirements

To register for the special study program (SSP) iMoPLANT within the MSc Biosciences curriculum, students must hold a Bachelor degree in the Natural or Life Sciences with an average grade of 2.3 or better and show a keen interest in modern Plant Sciences.

How to apply

To apply for the SSP iMoPLANT, please register for the MSc Biosciences first. Once you are admitted to the MSc you can apply for the SSP iMoPLANT.

For questions related to your application, please contact the SSP iMoPLANT coordinator:

Dr. Rainer Waadt
Email: rwaadt@uni-muenster.de

For further information

Please visit the iMoPLANT website

Contact

SSP iMoPLANT coordinator

If you would like to discuss how to choose among the different plant modules, or how to plan your Master's curriculum based on the SSP iMoPLANT, please contact:

Dr. Rainer Waadt
Email: rwaadt@uni-muenster.de

Or select a mentor among the iMoPLANT-related groups.

SSP iMoPLANT office

To obtain your iMoPLANT certificate, please contact:

Teresa Kühlkamp (Secretary to the Head of the IBBP)
Email: teresa.kuehlkamp@uni-muenster.de

SSP iMoPLANT speaker

Head of the Institute of Plant Biology & Biotechnology
IBBP, Schlossplatz 7 & 8:

Prof. Dr. Markus Schwarzländer
Email: markus.schwarzlander@uni-muenster.de

Prof. Dr. Till Ischebeck (Deputy)
Email: till.ischebeck@uni-muenster.de

iMoPLANT

iNTEGRATIVE & MoLECULAR PLANT SCIENCES
Special Study Program

FACHBEREICH BIOLOGIE
Universität Münster

Why plant biologists are important to society

Climate change, pandemics, food security and devastating pest damage to crops are new challenges that our society has to face.

Despite these difficulties, we live in an exciting time in terms of technological advances and innovative research approaches. The research groups that are part of the SSP iMoPLANT explore plant life in all its diversity, from the molecular, cellular and organismic level to their manifold interactions within and with the environment.

The aim of the iMoPLANT groups is to understand how plants sense and respond to environmental challenges, and to use the acquired knowledge - based on state-of-the-art techniques and technologies - to improve crops, enhance energy efficiency & biomass production, and to develop plants as resources for agricultural, therapeutic and biotechnological purposes.

Thus, plant biologists play a crucial role in our society by addressing some of the most pressing challenges of our time.

About the SSP iMoPLANT

The SSP iMoPLANT offers dedicated specialized training within the MSc Biosciences program. It aims at students with a keen interest in the Plant Sciences. During the development of their iMoPLANT curriculum, students will seek to solve biological questions by applying the latest advances in Mass Spectrometry and Microscopy as well as in Molecular Biology and Genomics approaches, such as precision genome editing (CRISPR/Cas, etc.). Upon successful completion of the program, students will receive an iMoPLANT certificate (on top of the MSc certificate), attesting state-of-the-art training for future plant research at the academic as well as the industrial level.

SSP Structure

Option 1: 2 Advanced Modules + 1 Research Module + Master Thesis

1st Year – 1st WiSe	Project Management Module	Integrative Biology	AdM (iMoPLANT) **5 CPs**	AdM (iMoPLANT) **5 CPs**	AdM	AdM
1st Year – 2nd SuSe	Project Management Module	AdM	RM (iMoPLANT) **10 CPs**		RM	
2nd Year – 3rd WiSe / 4th SuSe	Master Thesis (iMoPLANT) **60 CPs**					

Option 2: 2 Research Modules + Master Thesis

1st Year – 1st WiSe	Project Management Module	Integrative Biology	AdM	AdM	AdM	AdM
1st Year – 2nd SuSe	Project Management Module	AdM	RM (iMoPLANT) **10 CPs**		RM (iMoPLANT) **10 CPs**	
2nd Year – 3rd WiSe / 4th SuSe	Master Thesis (iMoPLANT) **60 CPs**					

In addition, it is required to participate in at least 50% of the iMoPLANT 'Plants of the Future' lecture series.

SSP Content

The SSP iMoPLANT program integrates knowledge about plants from a broad perspective, encompassing the molecular, cellular and organismic levels to understand how plants interact with their environment.

The SSP iMoPLANT covers **six core subjects:**
Cellular & Molecular Biology of Plants, Plant Physiology & Biochemistry, Molecular Phytopathology, Plant Biotechnology, Plant Molecular Evolution & Adaptation, and **Bioinformatics & Statistics.** Within each of these subject areas, several advanced and research modules with a green label are offered. For further information, please visit the "Modulhandbuch".

Focus Area 'Plants'

SSP iMoPLANT is offered by the research groups at the Faculty of Biology (FB13) with strong focus on 'Plants'. The participating research groups are:

- **Plant Physiology**: Prof. Dr. Iris Finkemeier
- **Plant Signaling:** Prof. Dr. Ora Hazak
- **Plant Biochemistry & Biotechnology**: Prof. Dr. Michael Hippler
- **Green Biotechnology**: Prof. Dr. Till Ischebeck
- **Molecular Genetics & Cell Biology of Plants**: Prof. Dr. Jörg Kudla
- **Biopolymers & Molecular Phytopathology**: Prof. Dr. Bruno Moerschbacher
- **Evolution & Biodiversity of Plants**: Prof. Dr. Kai Müller
- **Plant Biotechnology**: Prof. Dr. Dirk Prüfer
- **Molecular Physiology of Plants**: Prof. Dr. Antje von Schaewen
- **Plant Energy Biology**: Prof. Dr. Markus Schwarzländer
- **Evolution of Biotic Plant Interactions**: Prof. Dr. Susann Wicke

For further information about the research offered by the different iMoPLANT groups, please visit the IBBP and IEB (Institute for Evolution & Biodiversity) websites.