



## Requirements

To register for the Special Study Program (SSP) iMoPLANT within the MSc Biosciences, students should hold a Bachelor degree with a focus in the Natural or Life Sciences with an average grade of 2.3 or better and a strong interest in modern Plant Sciences.



## How to apply

To apply for the SSP iMoPLANT, please register for the MSc Biosciences first. As the number of places in modules with a plant sciences focus is limited, we recommend that you apply for the SSP as soon as possible.

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

**Dr. Maida Romera Branchat** ([mromerab@uni-muenster.de](mailto:mromerab@uni-muenster.de))

## For further information:

Please visit our [website](#)

## Contact



### SSP iMoPLANT coordinator:

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

**Dr. Maida Romera Branchat**

Email: [mromerab@uni-muenster.de](mailto:mromerab@uni-muenster.de)

Or select a mentor among the iMoPLANT-related groups.

### SSP iMoPLANT office:

To obtain your iMoPLANT certificate, please contact:

**Vivien Heuke (Secretary to the Head of the IBBP)**

Email: [Vivien.Heuke@uni-muenster.de](mailto:Vivien.Heuke@uni-muenster.de)

### SSP iMoPLANT speaker:

**Head of the Institute of Plant Biology and Biotechnology (IBBP):**

Prof. Dr. Antje von Schaewen

Email: [schaewen@uni-muenster.de](mailto:schaewen@uni-muenster.de)

Prof. Dr. Bruno Moerschbacher (Deputy)

Email: [moersch@uni-muenster.de](mailto:moersch@uni-muenster.de)

**iMoPLANT**  
INTEGRATIVE & MOLECULAR PLANT SCIENCES  
Special Study Program





## Why plant biologists are important to society

Climate change, pandemics, sufficient food supply 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 with the environment.

Our aim is to understand how plants react to the challenges from their environment, and to use the acquired knowledge — based on rapidly state-of-the-art technologies — to improve our crops, enhance energy efficiency & biomass production, and to develop plants as bioresources for agricultural, therapeutic and biotechnological purposes.

Thus, plant biologists hold a very important and decisive role in our society, by addressing several of the most pressing challenges of humankind.

## About SSP iMoPLANT



The SSP iMoPLANT offers specialization within the MSc program Biosciences. It is aimed at students with a strong interest in integrative plant science. 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 molecular and genomics approaches, such as precision genome editing. Upon successful completion of the program, students will receive an iMoPLANT [certificate](#), accompanying the MSc certificate, attesting that they have received state-of-the-art training to perform plant science work at the academic as well as industrial research level.



## SSP Structure

1 <sup>st</sup> Year	1 <sup>st</sup> WiSe	Project management Module Lab organisation	AdM1	AdM2	AdM3	AdM4	AdM5	AdM6
	2 <sup>nd</sup> SuSe	Project management, Team management & project supervision	Research Module1			Research Module2		
2 <sup>nd</sup> Year	3 <sup>rd</sup> WiSe	Master Work						
	4 <sup>th</sup> SuSe							

- AdM Mandatory 3 (out of 6) Advanced Modules with the “Green” label
- Research Module Mandatory 1 (out of 2) Research Modules with the “Green” label
- Master work Mandatory to do the Master work in or associated to one of the iMoPLANT research groups

For more information about structure and content of the SSP, please visit our [website](#).



## 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 **6 core subjects** of Integrative & Molecular Plant Sciences: ‘**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 the ‘[Green](#)’ label are offered. For further information about modules, please visit the “[Modulhandbuch](#)”

## Focus Area ‘Plants’



SSP iMoPLANT is offered by the research groups at the WWU Faculty of Biology with focus on ‘Plants’. Currently, nine work groups and three junior research groups are taking part in the iMoPLANT program:

- **Plant Physiology:** Prof. Dr. Iris Finkemeier
- **Plant Biochemistry & Biotechnology:** Prof. Dr. Michael Hippler
- **Molecular Genetics & Cell Biology of Plants:** Prof. Dr. Jörg Kudla
- **Molecular Phytopathology & Renewable Resources:** 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
- **Plant Adaptation-in-Action:** Prof. Dr. Shuqing Xu

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