



## Welcome to the seminar-based course

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This Winter Semester 2022/2023, we offer again the lecture series: "**Plants of the future**" within the Special Study Program (SSP) **INTEGRATIVE & MOLECULAR PLANT SCIENCE "iMoPLANT"**. These seminars are addressed to all MSc Biosciences/Biotechnology students with a strong interest in Plant Science, especially on topics related to the current challenges of the planet: environmental stress to plants, need for new bioresources, need for new forms of energy, etc.

What solutions does Plant Science present? If you are interested in learning more about these topics, do not miss the opportunity to follow the weekly seminars held by the "**Plants**" leading researchers of the Faculty of Biology. After each presentation there will be time for questions.

This semester the invited speaker is **Professor Dr. Philipp Franken**. He heads the Molecular Phytopathology Group at the Friedrich Schiller University Jena and leads the Erfurt Research Center for Horticultural Crops (FGK) in Erfurt.

**Time:** Wednesdays from 9 am to 10 am (except in the cases indicated)

**Place:** Zoom-Meeting (-> Registration via **email** required.)

**Language:** English

**Audience:** The event is aimed at MSc students. However, BSc & PhD students as well as postdocs are also welcome to join.

We are looking forward to seeing you! There will be a Learnweb Course Site with additional material for all attending the lectures.

If you are interested in participating in the "**Plants of the future**" lecture series, kindly send an **email** to Birgitt Oeser ([birgitt.oeser@uni-muenster.de](mailto:birgitt.oeser@uni-muenster.de)) indicating briefly if you intend to participate in all the seminars or only in some of them. Dr. Birgitt Oeser is currently representing Dr. Maida Romera Branchat as SSP iMoPLANT coordinator.

Plants of the Future			
Introduction to Plants of the Future course: Birgitt Oeser			
When	Time (am)	Lecturer	Title of the Seminar
<b>Session 1: Cellular and Molecular Biology of Plants</b>			
16.11.2022	9:00 – 10:00	Antje von Schaewen	Sugars for life – from primary metabolism to subcellular localization in plant cells
23.11.2022	9:00 – 10:00	Jörg Kudla	Ca <sup>2+</sup> signalling networks as key to create plants of the future
30.11.2022	9:00 – 10:00	Till Ischebeck	Plant lipids - Barriers, Signals and Depots
<b>Session 2: Invited speaker from Friedrich-Schiller-Universität (Jena)</b>			
07.12.2022	9:00 – 10:00	Philipp Franken	Microorganisms in sustainable plant production: Challenges and Chances
<b>Session 3a: Plant Biotechnology and Phytopathology</b>			
MONDAY 12.12.2022	<u>8:15.- 9:45</u>	Dirk Prüfer	Plant Biotechnology
<b>Session 4a: Plant Physiology, Organelles and Biochemistry</b>			
21.12.2022	9:00 – 10:00	Michael Hippler	Structure and function of photosystem I – boosting electron output via genetic engineering
11.01.2023	9:00 – 10:00	Iris Finkemeier	Organellar retrograde signaling in plants
<b>Session 2: Plant Evolution and Adaptation</b>			
MONDAY 16.01.2023	<u>10:00 – 11:00</u>	Kai Müller	Plant phylogenomics and DNA barcoding
<b>Session 3b: Plant Biotechnology and Phytopathology</b>			
MONDAY 23.01.2023	<u>8:15.- 9:45</u>	Bruno Moerschbacher	Molecular Plant Pathology
<b>Session 4b: Plant Physiology, Organelles and Biochemistry</b>			
01.02.2023	9:00 – 10:00	Markus Schwarzländer	The superpowers of mitochondria in plants
<b>End of lecture series: Concluding remarks</b>			