

# PLANTS OF THE FUTURE



**Welcome to the seminar-based online course**

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The lecture series on the plants of the future at the University of Münster will be held online

This winter semester 2020/2021 we are launching our new specialization in Plant Science: **Integrative & MoLECULAR PLANT SCIENCE "iMoPLANT"**. Despite the current Coronavirus crisis, we are happy to implement a new course: **"Plants of the future: research towards more sustainable plants"**. This course is aimed at all MSc Biosciences students and will focus on interesting topics of plant science that address the current challenges of the planet: environmental stress to plants, new bioresources, new forms of energy, and much more.

What solutions does plant science present? if you are interested in these topics do not miss the opportunity to follow the weekly webinars hold by the "Plants" leading researchers of the Faculty of Biology. The course is neither compulsory nor does it offer any credit points at the moment.

**Date:** Wednesdays from 9-10 am (except in the cases indicated).

If you are interested in participating in the course, please contact: **Dr. Maida Romera Branchat** (iMoPLANT coordinator): [mromerab@uni-muenster.de](mailto:mromerab@uni-muenster.de)

Plants of the Future: Research towards more sustainable plants		
Introduction to Plants of the Future course: Maida Romera Branchat		
Session 1: Plant Evolution and Adaptation		
25.11.2020	Dr. Maik Bartelheimer	Where will all the flowers go - plant functional adaptation to environmental gradients in the wild.
02.12.2020	Prof. Shuqing Xu	Survival strategies of plants in nature
Session 2: Cellular and Molecular Biology of Plants		
09.12.2020	Prof. Jörg Kudla	Title pending
16.12.2020	Prof. Antje von Schaewen	Sugars for life – from primary metabolism to subcellular localization in plant cells
Session 3: Plant Biotechnology and Phytopathology		
25.01.2021	Prof. Dirk Prüfer	Plant Trait Improvement by Genetic Engineering – Past and Future (Monday, 8:15-9:45am, as part of the biotech module)
01.02.2021	Prof. Bruno Moerschbacher	Biotechnology for Plant Protection (Monday, 8:15-9:45am, as part of the biotech module)
Session 4: Plant Physiology, Organelles and Biochemistry		
27.01.2021	Prof. Markus Schwarzländer	The superpowers of mitochondria in plants
03.02.2021	Prof. Michael Hippler	Structure and function of photosystem I – boosting electron output via genetic engineering
10.02.2021	Prof. Iris Finkemeier	Organelar retrograde signaling in plants
End of the course: Final remarks		