



Lecture Series

## Plant Biotechnology: Principles and Applications

**Wed. 8:30 – 10:00 in H53**

**Start: Wed. April 27, 2022**

27.04.2022	Introduction to plant biotechnology and GMPs	Dresselhaus
04.05.2022	Plant tissue culture	Dresselhaus
11.05.2022	Judgments on genetic engineering: the role of intuitions and arguments in bioethical debates	Dittmer
18.05.2022	Plant breeding I: classical methods, hybrid breeding	Dresselhaus
25.05.2022	Plant breeding II: modern methods in plant breeding	Dresselhaus
01.06.2022	Plant genetic engineering I	Grasser
08.06.2022	<i>No lecture</i>	
15.06.2022	Plant genetic engineering II	Grasser
22.06.2022	Agronomic traits	Grasser
29.06.2022	Quality traits and molecular farming	Grasser
06.07.2022	Bioenergy plants	Grasser
13.07.2022	Biosafety research on transgenic plants	Grasser
<i>open</i>	<i>Discussion: The global debate about GMPs, CRISPR/Cas etc.</i>	Dresselhaus/ Dittmer/Grasser

This lecture series addresses advanced students (6th semester and higher) in the life sciences and related fields. The focus will be on methods of plant tissue culture and genetic engineering as well as various applications of plant biotechnology for crop improvement in agriculture. Modern plant breeding methods will be introduced and ethical and safety issues as well as public perception will be discussed.