

(3 credits)

001-2-2069

Target Audience: (by Institute, mandatory/elective)

Course Description and Content:

The course will provide comprehensive coverage of Plant and Algae Lipid metabolism with the focus on the latest advances in biosynthesis and function of membrane and storage lipids, insights into molecular mechanisms of membrane lipid and triacylglycerol biosynthesis and catabolism in plant and microalgal cells, lipid trafficking, significance of acyl lipids editing and remodeling, the role of lipids in cell signaling.

Course Structure:

Lecture: 70%

Student Presentations: 30%

Course requirements: (Include required pre-courses, compulsory attendance, etc.)

Basic knowledge in molecular biology and biochemistry

Structure of Final Course-Grade:

Component	Weight
1. Presentations	50
2. Written assignment	30
3. Midterm test	20
Total:	100%

Textbooks or other references:

1. Arabidopsis Book. 2010; 8: e0133. Published online 2010 Jun 11. doi: 10.1199/tab.0133
<http://www.bioone.org/doi/abs/10.1199/tab.0133>
2. AOSC Lipid Library <http://lipidlibrary.aocs.org/Biochemistry/content.cfm?ItemNumber=40300>
3. Lipids in Plant and Algae Development. Subcellular biochemistry 86. Springer 2015

Lecturer: Inna Khozin-Goldberg

Lecturer Details:

Reception hours: Tuesday, Wednesday **10:00 - 12:00**

Biology Building, room 147

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