

HARMONOGRAM ZAJĘĆ

Applied Plant Molecular Biology

1. Repetition of the basics of genetics, basics terms, history of genetics, introduction to genome organization.
Wednesday, 7th April, 9:30 – 11:45
2. Plant genome organisation, sequential organization, higher-order organization of genome, methods of studying genome organization.
Wednesday, 14th April, 9:30 – 11:45
3. Basics of epigenetics, molecular aspects of epigenetic, the role of epigenetic regulation in plant development, reproduction and interaction of plants with the environment.
Wednesday, 21st April, 9:30 – 11:45
4. Plant cell biology, organisation of interphase cell nucleus in plants, differentiation of the plant cells.
Wednesday, 28th April, 9:30 – 11:45
5. Plant tissues, *in vitro* tissue cultures with their physiological a molecular biological aspects.
Wednesday, 5th May, 9:30 – 11:45
6. Applications of the methods *in vitro* tissue cultures in plant reproductions, breeding and plant protection.
Wednesday, 12th May, 9:30 – 11:45
7. Genetic modification of the plants, methods.
Wednesday, 19th May, 9:30 – 11:45
8. Genetic modified crops in agriculture, environmental risks, European legislation associated with GMO cultivation.
Wednesday, 26th May, 9:30 – 11:45
9. Non-GMO techniques in breeding programs, genetic diversity, mutation breeding. Artificial polyploidy in plants.
Wednesday, 2nd June, 9:30 – 11:45



Projekt: „Zintegrowany Program Rozwoju Uniwersytetu Śląskiego w Katowicach”

10. Methods of molecular biology for plant screening, searching for genetic diversity, detection of transgenes, gene expression.

Friday, 11th June, 13:45 – 16:00