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The discipline of plant molecular biology uses genetic, genomic, biochemical, cell biological, and computational approaches to understand plant growth, physiology, and development at a molecular level.

This class covers the whole range of molecular biology techniques, expression and regulation of genes and diverse signal transduction including plant molecular biotechnology to understand molecular level of higher plants.

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Mid exam: 45%  
Final Exam: 45%  
Report: 5%  
Attendance: 5%

Let's discuss with you at the first class

1. Introduction
2. What is molecular biology?
3. Basic subject in the study of plant molecular biology
4. Genome
5. Forward genetics I
6. Forward genetics II
7. Reverse genetics
8. DNA and RNA works
9. Protein works
10. Gene expression I
11. Gene expression II
12. Analysis of phenotype
13. Signal transduction I
14. Signal transduction II
- 15 Plant Biotechnology