

Topics for presentation

1. Unnatural amino acids in protein engineering
2. Arginine deiminase for cancer treatment
3. Artificial enzyme a case study
4. Enzyme Stability Engineering
5. High-Throughput Screening of enzymes 1. Fluorescin
6. High-Throughput Screening of enzymes 2. Endpoint sensing
7. Metabolic enzymes for toluene degradation
8. Recent advances in directed evolution
9. DNAzyme
10. Enzyme for producing glycoprotein in *E. coli*
11. Antibody-enzyme
12. Synthetizing Crixivan by metabolic enzymes
13. Engineering Telomerase
14. Engineering PQQ-Glucose Dehydrogenase
15. Enzymes in cold condition
16. Chemical modification of enzyme
17. Biosensors based on enzyme field effect transistor
18. Lipase as a biocatalyst

Other subjects related to enzyme engineering are OK with instructor's approval.

Homework #1 : Summary of your presentation

due on Nov. 8th