

Metabolic Engineering Laboratory

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What

Metabolism

Primary, Secondary

The direct improvement of product formation or cellular properties through the modification of specific biochemical reaction(s) or the introduction of new one(s) with the use of recombinant DNA technology.

Why

1. Enhancement of product yield and productivity
2. Extension of substrate range
3. Extension of product spectrum and novel products
4. Improvement of cellular properties
5. Xenobiotic degradation

How

- 1. Analyze the metabolic pathway
- 2. Modify the pathway with recombinant DNA technology

Where

- SER 113
- We are studying the biosynthesis of pharmaceutically important compounds