

2413

Industrial Microorganisms Design

METABOLIC MODELING FOR BIOPRODUCTION OPTIMIZATION

DESCRIPTION

- In silico strain design through determination of optimal genetic intervention strategies.
- In silico estimation of maximum theoretical yields and productivities for biomass and commercial interest products with different culture media through genome-scale metabolic models.
- Culture media design based on metabolic mathematical models.
- In silico study of dynamic effects of genetic modifications and metabolic regulation processes on the production of biotechnologically interesting metabolites in batch and fed-batch bioreactors.
- Integration of bioreactor and metabolic mathematical models to study the dynamic interactions between cellular metabolism and environmental changes in batch and fed-batch bioreactors.
- In silico drug discovery.

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