BioSynthAI™

Synthetic Biology Engine

Gene Design Optimization ⌄

- Gene sequence optimization & prediction
- Promoter & regulatory element design
- Metabolic pathway design; genetic element assembly

Strain Screening & Evolution ⌄

- High-throughput strain screening; directed evolution design
- Biosensor development; phenotype prediction analysis
- Strain adaptability simulation; growth condition optimization

Bioprocess Control ⌄

- Real-time fermentation parameter monitoring; yield prediction
- Metabolic flux analysis; inhibitor identification
- Intermediate product detection; production condition optimization

Intelligent Production Integration ⌄

- Production scale-up evaluation; pilot data analysis
- Biosafety risk assessment; product purity control
- Equipment compatibility analysis; production efficiency optimization

Application Scenarios

Green biopharmaceuticals

Industrial enzyme development

Biofuel production

Biomaterial synthesis

Why Choose Ainnocence?

1 Multi-omics data integration driven

2 Synthetic biology expert models

3 Experimental data validation

4 Rapid delivery: Hours to two weeks

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