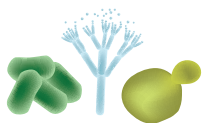
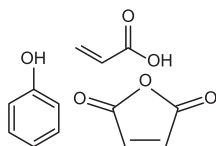


Production hosts

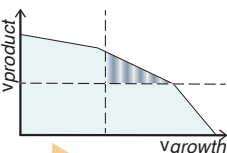


load genome-scale model

Target chemicals



find target compound



production envelope

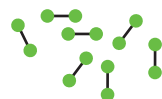
native product

non-native product

pathway prediction

heterologous reactions

MetaNetX Database

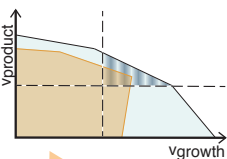


analysis

knockouts

modulation

knockouts+ modulation

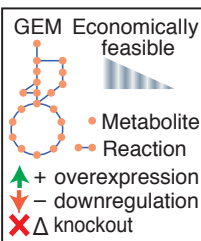
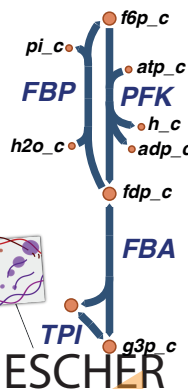


production envelope

analysis and prioritization

pathway visualization

flux variability analysis



manipulations	score
+pfkΔfru	10
+pfkΔfbaΔtrpD	7
-fbaΔtrpD	7
...	...

