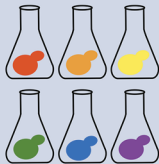


QTL analysis of robustness traits



complex
trait
analysis

module #1

⋮

module #n

engineering of feedstock utilization



pentoses

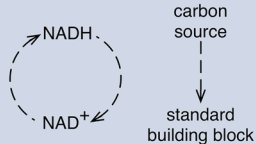
lignin

CBP



multi-trait synthetic yeast cell factory

pathway assembly



standard modules

+

gene 1

⋮

gene n

product pathway