

Metabolites	0	0	1	0	0	-1	0
	0	0	0	0	0	1	0
	1	0	1	-1	1	0	1
	0	1	0	0	0	0	0
	-1	0	0	1	-1	0	0
	0	-1	0	0	0	0	-1
	0	0	0	0	1	1	0
Reactions							

E. coli Model

Growth Conditions

Carbon

1. D-glucose
2. Pyruvate
3. ...

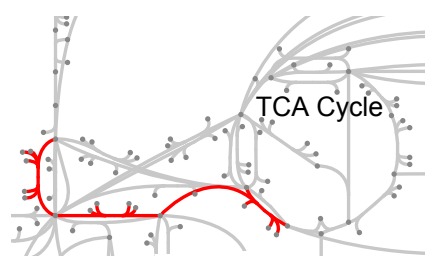
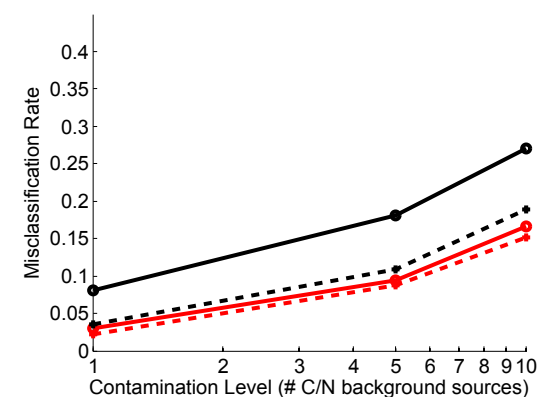
Nitrogen

1. Ammonia
2. Adenine
3. ...

Flux Balance Analysis

$$\max. c^T v \quad s.t. \quad Sv = 0$$

Multinomial Classification



E. coli Map

Results

1. Predicted growth conditions
2. Key reactions that discriminate growth conditions

