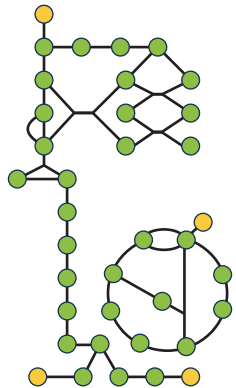


life of a bacterial cell

METABOLISM



Metabolites

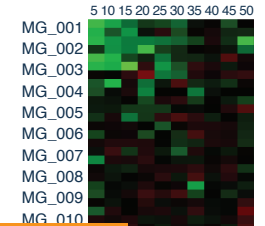
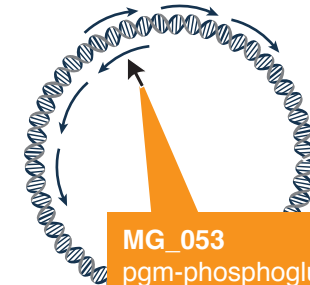
Name	#/cell
Glucose-6-P	103
Pyruvate	548
Cytidine	220

Enzymes

Name	flux
Glycerol kinase	71
Transketolase	36

RNA TRANSCRIPTION

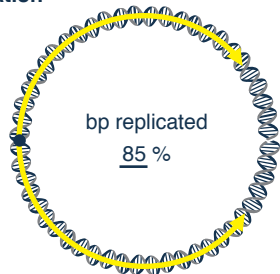
Number of Free RNA Polymerases



MG_053
pgm-phosphoglucomutase
47% transcribed

DNA REPLICATION

DNA Replication



Current DNA Polymerase Position

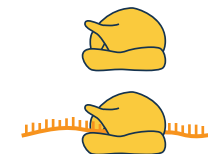
- MG_264 (coaE) dephospho-CoA kinase
- ← MG_300 (pgk) phosphoglycerate kinase

CELL DIVISION

76 mins, 85% complete

PROTEIN SYNTHESIS

Current Number of Complete Ribosomes: 2,653



FREE: 72

BOUND: 2,591

Proteins and Complexes

Name	#/cell
Peptide deformylase (MG_106)	86
Guanylate kinase (MG_107)	154

WOULD YOU LIKE TO:

Delete a gene?

Compare different cells
in the population?

Change the growth
environment?