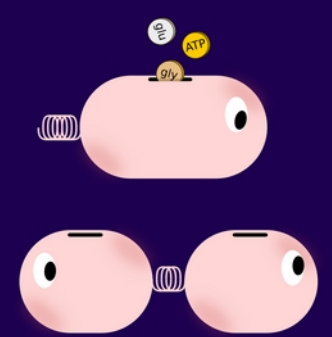


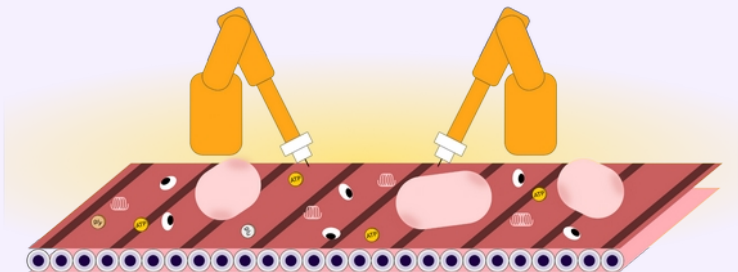
# Economic Principles in Cell Physiology

Paris, July 4-6, 2022



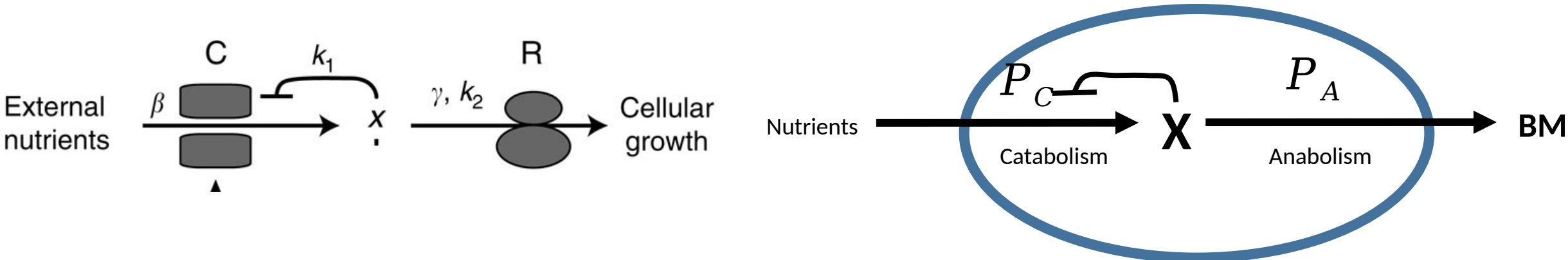
## Self-replicator cell models Examples from literature

Ohad Golan

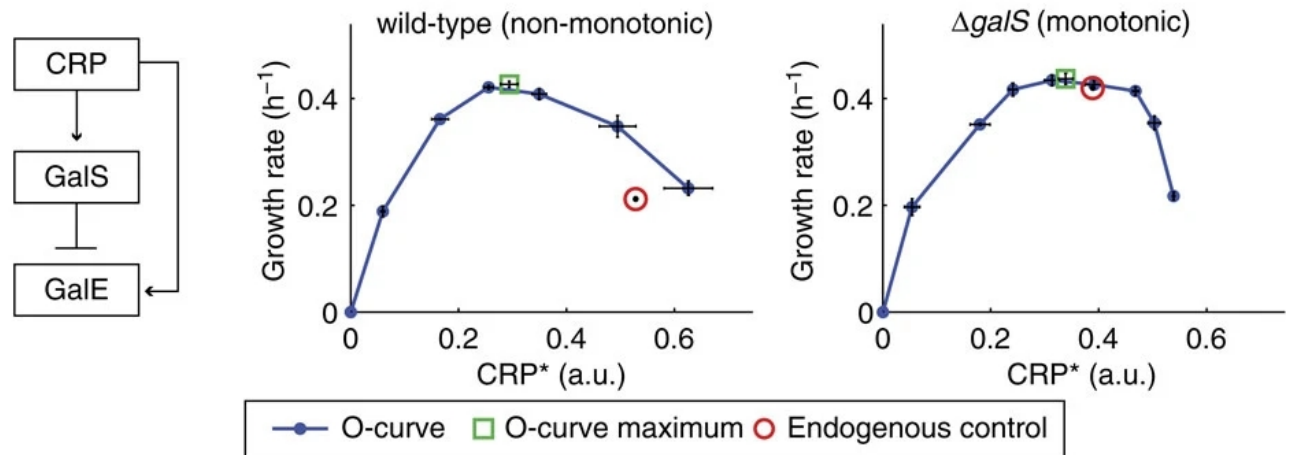


# Optimality and sub-optimality in a bacterial growth law

Towbin, Benjamin D., Yael Korem, Anat Bren, Shany Doron, Rotem Sorek, and Uri Alon



**b** Galactose: sub-optimal to optimal

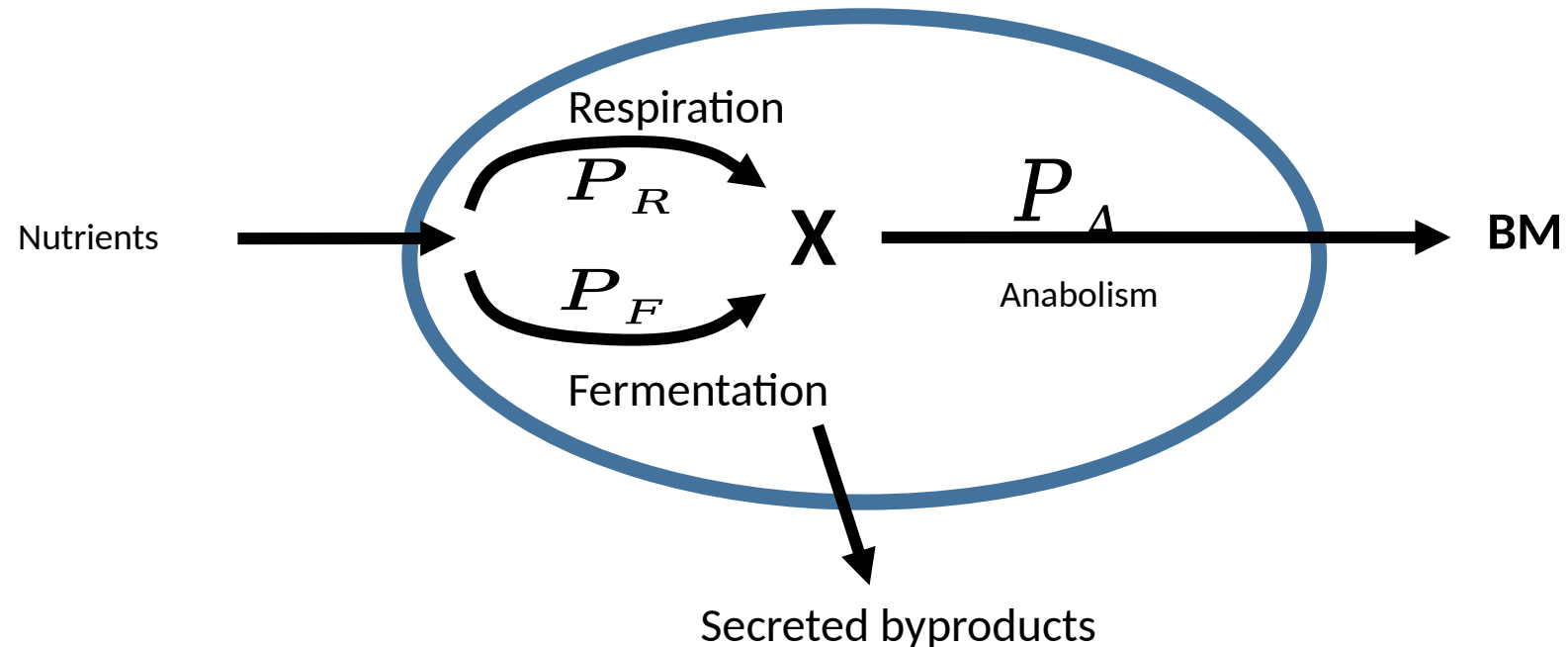


# Overflow metabolism in *Escherichia coli* results from efficient proteome allocation

Basan, Markus, Sheng Hui, Hiroyuki Okano, Zhongge Zhang, Yang Shen, James R. Williamson, and Terence Hwa

# Shifts in growth strategies reflect tradeoffs in cellular economics

Molenaar, Douwe, Rogier Van Berlo, Dick De Ridder, and Bas Teusink



# Mechanistic links between cellular trade-offs, gene expression, and growth

Weiße, Andrea Y., Diego A. Oyarzún, Vincent Danos, and Peter S. Swain

