

ADVANCES IN MICROBIAL PHYSIOLOGY ADVANCES IN MICROBIAL SYSTEMS BIOLOGY

EDITED BY ROBERT K. POOLE

C O N T E N T S

Systems Biology of Monovalent Cation Homeostasis in Yeast: The Translucent Contribution

Joaquín Ariño, Ebru Aydar, Samuel Drulbe, Daniel Ganser, Jesús Jorriu, Matthias Kahn, Falko Krause, Silvia Petrezsélyová, Lynne Yenush, Olga Zimmermannová, G. Paul H. van Heusden, Maik Kschischo, Jost Ludwig, Chris Palmer, José Ramos and Hana Sychrová

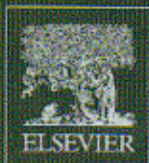
Towards a Systems Level Understanding of the Oxygen Response of *Escherichia coli*

Katja Bettenbrock, Hao Bai, Michael Ederer, Jeffrey Green, Klaas J. Hellingwerf, Michael Holcombe, Samantha Kunz, Matthew D. Roffe, Guido Sanguinetti, Oliver Sawodny, Poonam Sharma, Sonja Steinsiek and Robert K. Poole

The Silicon Trypanosome: A Test Case of Iterative Model Extension in Systems Biology

Fiona Aebear, Abeer Fadda, Jurgen R. Haanstra, Eduard J. Kerkhoven, Dong-Hyun Kim, Alejandro E. Leroux, Theodore Papamarkou, Federico Rojas, Barbara M. Bakker, Michael P. Barrett, Christine Clayton, Mark Girolami, R. Luise Krauth-Siegel, Keith R. Matthews and Rainer Breitling

Cover illustration: Simulation Results of the Central Metabolism Model (Michael Ederer).



ACADEMIC PRESS

An imprint of Elsevier
store.elsevier.com

ISBN 978-0-12-800143-1



9 780128 001431