046001 Stochastic modelling of reaction–diffusion processes: algorithms for bimolecular reactions
Radek Erban and S Jonathan Chapman

046002 Modeling the slowing of neurofilament transport along the mouse sciatic nerve
P Jung and A Brown

046003 Molecular dynamics study of the RNA ring nanostructure: a phenomenon of self-stabilization
Maxim Paliy, Roderick Melnik and Bruce A Shapiro

046004 Desipramine induces disorder in cholesterol-rich membranes: implications for viral trafficking
Kiiri Pakkanen, Emppu Salonen, Anna R Mäkelä, Christian Okes-Blim, Ilpo Vattulainen and Matti Vuorio

046005 Comparative analysis of rigidity across protein families
S A Wells, J E Jimenez-Roldan and K A Romer

046006 Flux networks in metabolic graphs
P R Warren, S M Duarte Queiros and J L Jones

046007 A computational study of λ-lac mutants
Maria Werner and Erik Aurell

046008 A model for signal transduction during quorum sensing in Vibrio harveyi
Suman K Banik, Andrew T Fenley and Rahul V Kulkami

046009 Physical limits of feedback noise-suppression in biological networks
Jiajun Zhang, Zhanjiang Yuan and Tianhong Zhou

046010 The cellular response to curvature-induced stress
Y Y Biton and S A Safran

046011 Spatial control of the energy metabolism of yeast cells through electrolytic generation of oxygen
Christian Warnke, Thomas Mait, Harmut Witte, Antje Reiter, Marcus J R Hauser and Alois Kroiss

046012 Solenopsis ant magnetic material: statistical and seasonal studies
Leila G Abraço, Darci M S Esgueval and Eliane Wajnberg

046013 The combination of positive and negative feedback loops confers exquisite flexibility to biochemical switches
Benjamin Pfeuty and Kunihiko Kaneko

046014 Long-range energy transfer in proteins
Francesco Piazza and Yves-Henri Sanejouand

046015 Accurate particle-based simulation of adsorption, desorption and partial transmission
Steven S Andrews

046016 Uncorrelated changes of subunit stability can generate length-dependent disassembly of treadmilling filaments
C Eilenkamp and K Krüse

046017 Membrane-mediated interactions drive the condensation and coalescence of FtsZ rings
R Shlomovitz and N S Gov

046018 Entropic contributions to the splicing process
Matteo Osella and Michele Caselle

(Continued on inside back cover)