Review articles

Perspective on post-menopausal osteoporosis: establishing an interdisciplinary understanding of the sequence of events from the molecular level to whole bone fractures

L. M. McNamara

Lipid bilayer regulation of membrane protein function: gramicidin channels as molecular force probes

J. A. Lundback, S. A. Collingwood, H. I. Ingleson, R. Kapoor & O. S. Andersen

Research articles

Analysis of a complete DNA–protein affinity landscape

W. Rowe, M. Platt, D. C. Wedge, P. J. Day, D. B. Kell & J. Knowles

Virus assembly occurs following a pH- or Ca\textsuperscript{2+}-triggered switch in the thermodynamic attraction between structural protein capsomeres

Y. P. Chuan, Y. Y. Fan, L. H. L. Lua & A. P. J. Middelberg

Systems-level cancer gene identification from protein interaction network topology applied to melanogenesis-related functional genomics data

T. Miličević, V. Miličević, A. V. Garencic & N. Pržulj

Invasion, persistence and control in epidemic models for plant pathogens: the effect of host demography

N. J. Cummins & C. A. Gilligan

Effect of nanoparticulate bioactive glass particles on bioactivity and cytocompatibility of poly(3-hydroxybutyrate) composites


Low-frequency pulsed electromagnetic field exposure can alter neuroprocessing in humans


Use of computational fluid dynamics to study forces exerted on prey by aquatic suction feeders

T. Skorczewski, A. Cheer, S. Cheung & P. C. Wainwright

Aerodynamic effects of flexibility in flapping wings

L. Zhao, Q. Huang, X. Deng & S. P. Sane

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M. Rüggeberg, I. Burgert & T. Speck

Quantum metabolism explains the allometric scaling of metabolic rates

L. Demetrius & J. A. Tuszynski

Inflow boundary profile prescription for numerical simulation of nasal airflow

D. J. Taylor, D. J. Doorly & R. C. Schroter

Optimal and robust control of invasive alien species spreading in homogeneous landscapes

L. R. Carrasco, R. Baker, A. MacLeod, J. D. Knight & J. D. Mumford

Herd immunity acquired indirectly from interactions between the ecology of infectious diseases, demography and economics

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