ISSN 1742-5689

7 November 2011
volume 8 • number 64 • pages 1521–1672

Review articles
Medical ultrasound: imaging of soft tissue strain and elasticity
P. N. T. Wells & H.-D. Liang

Multi-scale computational models of familial hypertrophic cardiomyopathy: genotype to phenotype
S. G. Campbell & A. D. McCulloch

Research articles
The effect of individual variation on the structure and function of interaction networks in harvester ants
N. Pinter-Wollman, R. Wollman, A. Guez, S. Holmes & D. M. Gordon

Effect of skin hydration on the dynamics of fingertip gripping contact
T. André, V. Lévesque, V. Hayward, P. Lefèvre & J.-L. Thonnard

Influence of birth rates and transmission rates on the global seasonality of rotavirus incidence

Effect of reverse flow on the pattern of wall shear stress near arterial branches
A. Kazuki, A. M. Plata, S. J. Shervin & P. D. Weinberg

Evolution of social learning when high expected payoffs are associated with high risk of failure
M. Arbilly, U. Motro, M. W. Feldman & A. Lotem

Exploring the possibility of early cataract diagnostics based on tryptophan fluorescence
D. M. Gakamsky, B. Dhillon, J. Babraj, M. Shelley & S. D. Smith

Novel use of biodegradable casein conduits for guided peripheral nerve regeneration
S-W. Huang, C.-C. Tai, F.-J. Tsai, T.-Y. Hu, C.-H. Yao & Y.-S. Chen

Intracellular pH distribution as a cell health indicator in Saccharomyces cerevisiae
T. Aabo, J. Glückstad, H. Siegumfeldt & N. Arneborg

Quantifying selection and diversity in viruses by entropy methods, with application to the haemagglutinin of H3N2 influenza
K. Pan & M. W. Deem

Alternative mechanisms of increased eggshell hardness of avian brood parasites relative to host species

Ambush frequency should increase over time during optimal predator search for prey
S. Alpern, R. Fokkink, M. Timmer & J. Casas

Founded in 1660, the Royal Society is the independent scientific academy of the UK, dedicated to promoting excellence in science
Registered Charity No 207043