Review articles
Fibrin gels and their clinical and bioengineering applications
P. A. Janmey, J. P. Winer & J. W. Weisel

Research articles
Tuberculosis reinfection rate as a proportion of total infection rate correlates with the logarithm of the incidence rate: a mathematical model
P. W. Uys, P. D. van Helden & J. W. Hargrove
Light alters nociceptive effects of magnetic field shielding in mice: intensity and wavelength considerations
Dynamic mechanical oscillations during metamorphosis of the monarch butterfly
A. E. Pelling, P. R. Wilkinson, R. Stringer & J. K. Gimzewski
Modelling the time-dependent transmission rate for porcine circovirus type 2 (PCV2) in pigs using data from serial transmission experiments
Control of translation initiation: a model-based analysis from limited experimental data
R. J. Dimelow & S. J. Wilkinson
Systematic construction and prediction of the arrangement of the strands of sandwich proteins
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Does a ‘turbophoretic’ effect account for layer concentrations of insects migrating in the stable night-time atmosphere?
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The influence of mesoscale porosity on cortical bone anisotropy. Investigations via asymptotic homogenization
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Anomalous diffusion of heterogeneous populations characterized by normal diffusion at the individual level
S. Hapca, J. W. Crawford & I. M. Young

Reports
Rare peptide segments are found significantly more often in proto-oncoproteins than control proteins: implications for immunology and oncology
B. Trost, D. Kanduc & A. Kusalik