

Chemical Biology Virtual Journal



www.rsc.org/chembiolvj

An easy-to-use point of access to all chemical biology literature in the RSC's publications. A selection of the primary research articles are free to access for one month following publication in an issue.

Contents list

Issue 12

2006

APPLICATIONS

Surface modifications of bone implants through wet chemistry

Ke Duan and Rizhi Wang

J. Mater. Chem., 2006, **16**, 2309

PAPERS

Inert benzothiazole functionalised ruthenium(II) complexes; potential DNA hairpin binding agents

Caitriona B. Spillane, Joy L. Morgan, Nicholas C. Fletcher, J. Grant Collins and F. Richard Keene

Dalton Trans., 2006, 3122

Very high concentrations of DDE and toxaphene residues in crocodiles from the Ord River, Western Australia: an investigation into possible endocrine disruption

Mitsuha Yoshikane, Winston R. Kay, Yasuyuki Shibata, Maki Inoue, Tokuma Yanai, Ryo Kamata, John S. Edmonds and Masatoshi Morita

J. Environ. Monit., 2006, **8**, 649

Active site structures and the redox properties of blue copper proteins: atomic resolution structure of azurin II and electronic structure calculations of azurin, plastocyanin and stellacyanin

Konstantinos Paraskevopoulos, Mahesh Sundararajan, Rajeev Surendran, Michael A. Hough, Robert R. Eady, Ian H. Hillier and S. Samar Hasnain

Dalton Trans., 2006, 3067

A peptidomimetic siRNA transfection reagent for highly effective gene silencing

Yeliz Utku, Elinor Dehan, Ouathék Ouerfelli, Fabio Piano, Ronald N. Zuckermann, Michele Pagano and Kent Kirshenbaum

Mol. BioSyst., 2006, **2**, 312

An altered oxidant defense system in red blood cells affects their ability to release nitric oxide-stimulating ATP

Jamie Carroll, Madushi Raththagala, Wasanthi Subasinghe, Stacy Baguzis, Teresa D'amico Oblak, Paul Root and Dana Spence

Mol. BioSyst., 2006, **2**, 305

Structure–activity studies on a library of potent calix[4]arene-based PDGF antagonists that inhibit PDGF-stimulated PDGFR tyrosine phosphorylation

Huchen Zhou, De-an Wang, Laura Baldini, Eileen Ennis, Rishi Jain, Adam Carie, Saïd M. Sebti and Andrew D. Hamilton

Org. Biomol. Chem., 2006, **4**, 2376

Binding of monomeric and dimeric Concanavalin A to mannose-functionalized dendrimers

Shane L. Mangold and Mary J. Cloninger

Org. Biomol. Chem., 2006, **4**, 2458

Multipolar interactions in the D pocket of thrombin: large differences between tricyclic imide and lactam inhibitors
 Eliane Schweizer, Anja Hoffmann-Röder, Jacob A. Olsen, Paul Seiler, Ulrike Obst-Sander, Björn Wagner, Manfred Kansy, David W. Banner and François Diederich
Org. Biomol. Chem., 2006, **4**, 2364

A cyclic dinucleotide with a four-carbon 5'-C-to-5'-C connection; synthesis by RCM, NMR-examination and incorporation into secondary nucleic acid structures
 Pawan K. Sharma, Birgitte H. Mikkelsen, Mikkel S. Christensen, Katrine E. Nielsen, Claus Kirchhoff, Søren L. Pedersen, Anders M. Sørensen, Kirsten Østergaard, Michael Petersen and Poul Nielsen
Org. Biomol. Chem., 2006, **4**, 2433

Synthesis and immunosuppressive activity of L-rhamnopyranosyl flavonoids
 Xiaoliang Yang, Yang Sun, Qiang Xu and Zijian Guo
Org. Biomol. Chem., 2006, **4**, 2483

Hydrogel polymer appears to mimic the performance of the GroEL/GroES molecular chaperone machine
 Huw Jones, John Dalmaris, Michael Wright, Joachim H. G. Steinke and Andrew D. Miller
Org. Biomol. Chem., 2006, **4**, 2568

Stabilisation of transition states prior to and following eudesmane cation in aristolochene synthase
 Silvia Forcat and Rudolf K. Allemann
Org. Biomol. Chem., 2006, **4**, 2563

Metabolism of crucifer phytoalexins in *Sclerotinia sclerotiorum*: detoxification of strongly antifungal compounds involves glucosylation
 M. Soledade C. Pedras and Mohammad Hossain
Org. Biomol. Chem., 2006, **4**, 2581

Inotilone and related phenylpropanoid polyketides from *Inonotus* sp. and their identification as potent COX and XO inhibitors
 Hilaire V. Kemami Wangun, Albert Härtl, Trinh Tam Kiet and Christian Hertweck
Org. Biomol. Chem., 2006, **4**, 2545

COMMUNICATIONS

Development of a linear type of low molecular weight CXCR4 antagonists based on T140 analogs
 Hirokazu Tamamura, Hiroshi Tsutsumi, Hiroyuki Masuno, Satoko Mizokami, Kenichi Hiramatsu, Zixuan Wang, John O. Trent, Hideki Nakashima, Naoki Yamamoto, Stephen C. Peiper and Nobutaka Fujii
Org. Biomol. Chem., 2006, **4**, 2354

CrAsH: a biarsenical multi-use affinity probe with low non-specific fluorescence
 Haishi Cao, Baowei Chen, Thomas C. Squier and M. Uljana Mayer
Chem. Commun., 2006, 2601

Extended ethidium bromide analogue as a triple helix intercalator: synthesis, photophysical properties and nucleic acids binding
 Victor K. Tam, Qi Liu and Yitzhak Tor
Chem. Commun., 2006, 2684

METHODS

Disposable real-time microPCR device: lab-on-a-chip at a low cost
 Pavel Neuzil, Juergen Pipper and Tseng Ming Hsieh
Mol. Biosyst., 2006, **2**, 292

Micropatterning polyvinyl alcohol as a biomimetic material through soft lithography with cell culture
 Chao-Min Cheng and Philip R. LeDuc
Mol. Biosyst., 2006, **2**, 299

OPINION

The impact of systems biology and biosimulation on drug discovery and development

Seth Michelson

Mol. BioSyst., 2006, **2**, 288

PERSPECTIVE

Intelligent design: the de novo engineering of proteins with specified functions

Ronald L. Koder and P. Leslie Dutton

Dalton Trans., 2006, 3045