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Method

Xenopus as a model organism in developmental chemical genetic screens

Matthew L. Tomlinson, Robert A. Field and Grant N. Wheeler

Highlight

Cell–cell communication in Gram-negative bacteria

Martin Welch, Helga Mikkelsen, Jane E. Swatton, Debra Smith, Gemma L. Thomas, Freija G. Glansdorp and David R. Spring

Reviews

How lipids and proteins interact in a membrane: a molecular approach

Anthony G. Lee

Polymyxin B: An ode to an old antidote for endotoxic shock

Vikrant M. Bhor, Celestine J. Thomas, Namita Surolia and Avadhesh Surolia

Papers

ICAT-MS-MS time course analysis of atrophying mouse skeletal muscle cytosolic subproteome

Marco Toigo, Samuel Donohoe, Gina Sperrazzo, Bradley Jarrold, Feng Wang, Richard Hinkle, Elizabeth Dolan, Robert J. Isfort and Ruedi Aebersold

Genotoxicity sensor response correlated with DNA nucleobase damage rates measured by LC-MS

Jing Yang, Bingquan Wang and James F. Rusling

Nucleoside phosphocholine amphiphile for *in vitro* DNA transfection

Louis Moreau, Philippe Barthélemy, Yougen Li, Dan Luo, Carla A. H. Prata and Mark W. Grinstaff

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Perspectives

Synthetic Applications of Aliphatic Unsaturated α -H- α -Amino Acids

Floris P. J. T. Rutjes, The Netherlands

C-Terminal properties are important for ring-fused 2-pyridones that interfere with chaperone function in uropathogenic *E. coli*

Fredrik Almqvist, Sweden

Communications

Aluminium triflate: a remarkable Lewis acid catalyst for the ring opening of epoxides by alcohols

D. Bradley G. Williams, South Africa

Palladium catalysed aryl amination reactions in supercritical carbon dioxide

Andrew B. Holmes, Australia

Enantioselective synthesis of (+)(*R*)- and (-)(*S*)-nicotine based on Ir-catalysed allylic amination

Günter Helmchen, Germany

Design and synthesis of a DNA-crosslinking azinomycin analogue

Mark Searcey, UK

Articles

A new and efficient method for *o*-quinone methide intermediate generation: Application to the biomimetic synthesis of the benzopyran derived natural products (\pm)-lucidene and (\pm)-alboatrין

Jack E. Baldwin, UK

Parallel synthesis and *in vitro* activity of novel anthranilic hydroxamate-based inhibitors of the Prostaglandin H₂ Synthase peroxidase activity

Marc Devocelle and Desmond J. Fitzgerald, Ireland

Self-Assembly and Stability of Double Rosette Nanostructures with Biological Functionalities

Mercedes Crego-Calama and David N. Reinhoudt, The Netherlands