Organic & Biomolecular Chemistry

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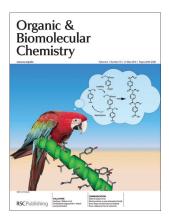
IN THIS ISSUE

ISSN 1477-0520 CODEN OBCRAK 8(10) 2269-2480 (2010)



See Kay Severin et al., pp. 2327-2331. A dynamic mixture of iron complexes can be used as a colorimetric sensor for sulfated glycosaminoglycans such as heparin.

Image reproduced by permission of Kay Severin from Org. Biomol. Chem., 2010, 10, 2327.



Inside cover

See Andrew J. Wilson et al., pp. 2344-2351. 'Who's a pretty helix?' On page 2344 of this issue, Wilson and co-workers describe the solid-phase synthesis of a novel series of oligobenzamide a-helix mimetics shown to act as potent inhibitors of the p53-hDM2 interaction

Image reproduced by permission of Andrew J. Wilson from Org. Biomol. Chem., 2010, 10, 2344.

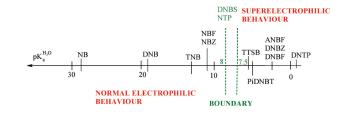
PERSPECTIVE

2285

Assessing the superelectrophilic dimension through σ-complexation, S_NAr and Diels-Alder reactivity

Erwin Buncel and François Terrier

Investigation of highly electron-deficient heteroaromatic structures allows extension of the classical domain of reactivity in S_NAr and σ-complexation processes by 13 orders of magnitude, as illustrated by the p $K_a^{\rm H_2O}$ scale for covalent hydration. This provides access to a superelectrophilic dimension of major importance in terms of synthetic applications and recognition of new structure-reactivity relationships.



COMMUNICATIONS

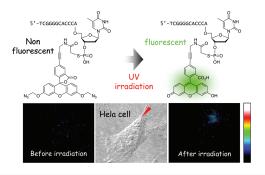
2309



Photoactivatable fluorescein derivatives with azidomethyl caging groups for tracing oligonucleotides in living human cells

Kazuhiro Furukawa, Hiroshi Abe,* Satoshi Tsuneda and Yoshihiro Ito*

A new photocaged fluorescent compound, azidomethyl fluorescein, was successfully utilized to monitor the dynamics of oligonucleotides in living human cells.



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COMMUNICATIONS

2312

A novel and efficient method for the olefination of carbonyl compounds with Grignard reagents in the presence of diethyl phosphite

Tongqiang Wang, Yuanyuan Hu and Songlin Zhang*

A one-pot manner of carbonyl olefination: a range of conjugated dienes, terminal olefins, multisubstituted-alkenes and conjugated enynes could be readily obtained in good to excellent yields in mild conditions.

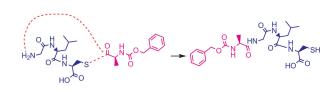
2316



The chemical ligation of selectively S-acylated cysteine peptides to form native peptides via 5-, 11- and 14-membered cyclic transition states

Alan R. Katritzky,* Nader E. Abo-Dya, Srinivasa R. Tala and Zakaria K. Abdel-Samii

N-Pg-Cysteine peptides are S-acylated by N-(Pg- α -aminoacyl)benzotriazoles and N-Fmoc protected S-acyl-isopeptides were deprotected to S-acyl-isopeptides. The S-acyl-isodi-, isotetra-, and isopenta-peptides undergo ligation via 5-, 11-, and 14-membered transition states to give native peptides.



2320



Chiral 1-phenylethylamine-derived phosphine-phosphoramidite ligands for highly enantioselective Rh-catalyzed hydrogenation of β-(acylamino)acrylates: significant effect of substituents on 3,3'-positions of binaphthyl moiety

Xiao-Mao Zhou, Jia-Di Huang, Li-Bin Luo, Chen-Lu Zhang, Xiang-Ping Hu* and Zhuo Zheng

New phosphine-phosphoramidite ligands were successfully applied in the Rh-catalyzed asymmetric hydrogenation of β-(acylamino)acrylates.

NHAc
$$(S_2S_9,2b \text{ (1.1 mol\%)} \atop (S_2S_9,2b \text{ (1.1 mol\%)} \atop MeOH, rt, 24 \text{ h}} NHAc \atop (S_2S_9,2b \text{ (2.1 mol\%)} \atop UII conversions to the conversions to the conversions to the conversion of the conversion of$$

2323

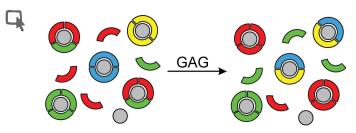


Novel 5'-deoxy nucleosyl amino acid scaffolds for the synthesis of muraymycin analogues

Anatol P. Spork and Christian Ducho*

Naturally occurring nucleoside antibiotics such as muraymycins represent promising lead structures for the development of novel antibacterial agents. A concise synthesis of 5'-deoxy muraymycin derivatives has been developed. The key step was the highly stereoselective asymmetric hydrogenation of suitable didehydro amino acid precursors, providing unique nucleosyl amino acid structures.

2327



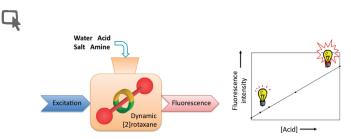
GAG = Glycosaminoglycan

Pattern-based sensing of sulfated glycosaminoglycans with a dynamic mixture of iron complexes

Peter-Korbinian Müller-Graff, Helga Szelke, Kay Severin* and Roland Krämer*

A dynamic mixture of Fe(II) complexes was used as a colorimetric sensor for sulfated glucosaminoglycans such as heparin, dextran sulfate, chondroitin sulfate, and heparan sulfate.

2332

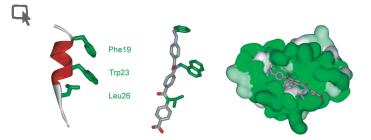


Self-assembly, stability quantification, controlled molecular switching, and sensing properties of an anthracene-containing dynamic [2]rotaxane

Wing-Yan Wong, Ken Cham-Fai Leung* and J. Fraser Stoddart*

A novel anthracene-containing dynamic [2]rotaxane has been synthesised and characterised. The stability of the [2]rotaxane, which has been investigated after the addition of water, acids, salts, and an amine, is monitored by observing the anthracene fluorescence and ¹H NMR chemical shifts. The [2]rotaxane has been shown to be a good acid sensor.

2344

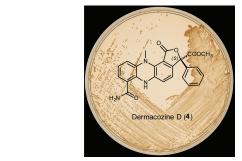


N-alkylated oligoamide α -helical proteomimetics

Frederick Campbell, Jeffrey P. Plante, Thomas A. Edwards,* Stuart L. Warriner* and Andrew J. Wilson*

In this paper, the design, synthesis and testing of a novel class of proteomimetic is described. Potent μM inhibitors of the p53-hDM2 protein-protein interaction are identified.

2352

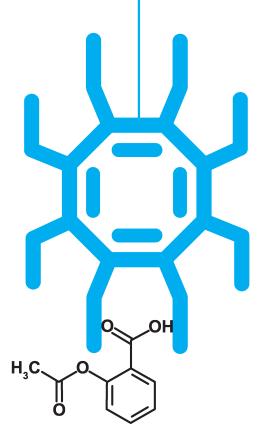


Dermacozines, a new phenazine family from deep-sea dermacocci isolated from a Mariana Trench sediment

Wael M. Abdel-Mageed, Bruce F. Milne, Marcell Wagner, Marc Schumacher, Peter Sandor, Wasu Pathom-aree, Michael Goodfellow, Alan T. Bull, Koki Horikoshi, Rainer Ebel, Marc Diederich, Hans-Peter Fiedler and Marcel Jaspars*

Seven phenazines with unique modifications were produced by the piezotolerant actinobacterium *Dermacoccus abyssi* which was isolated from a sediment sample collected from the deepest place on earth, Challenger Deep in the Mariana Trench.

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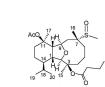
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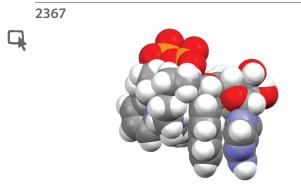




Anti-inflammatory eunicellin-based diterpenoids from the cultured soft coral *Klyxum simplex*

Bo-Wei Chen, Chih-Hua Chao, Jui-Hsin Su, Zhi-Hong Wen, Ping-Jyun Sung and Jyh-Horng Sheu*

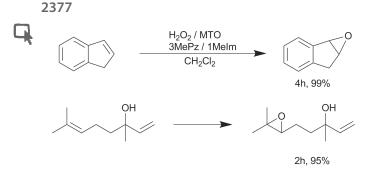
Three novel eunicellin-based diterpenoids, namely klysimplexin sulfoxides A–C, were isolated from the cultured soft coral *Klyxum simplex*.



Tritopic phenanthroline and pyridine tail-tied aza-scorpiands

Jorge González, José M. Llinares, Raquel Belda, Javier Pitarch, Concepción Soriano, Roberto Tejero, Begoña Verdejo and Enrique García-España*

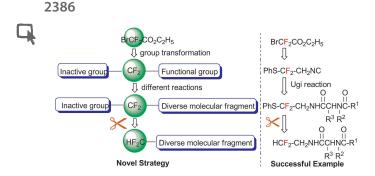
Two new tail-tied aza-macrocycles in which two pyridinophane scorpiand equivalent units have been covalently connected through 2,6-dimethylpyridine or 2,9-dimethylphenanthroline linkages show interesting capacity as Zn²⁺ and polyphosphate anion binders.



An effective procedure for the synthesis of acid-sensitive epoxides: Use of 1-methylimidazole as the additive on methyltrioxorhenium-catalyzed epoxidation of alkenes with hydrogen peroxide

Shigekazu Yamazaki*

The combined use of 3-methylpyrazole and 1-methylimidazole as the additives for methyltrioxorhenium(MTO)-catalyzed epoxidation has been found to be an effective procedure for the synthesis of acid-sensitive epoxides in excellent yields.



A general strategy for construction of a difluoromethyl compound library and its application in synthesis of pseudopeptides bearing a terminal difluoromethyl group

Jingjing Wu, Song Cao,* Nianjin Liu, Li Shen, Jinlong Yu, Jian Zhang, Hui Li and Xuhong Qian

A novel synthesis strategy that uses common reaction conditions to transform a collection of simple building blocks into complex molecules bearing a terminal difluoromethyl group was described. The strategy is illustrated by application to the synthesis of CF_2H -bearing pseudopeptides *via* Ugi reaction.

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The University of British Columbia, Canada

William D. Jones

University of Rochester, USA

Aiwen Lei

Wuhan University, China

Zhang-jie Shi

Peking University, China

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Robin Bedford

University of Bristol, UK

John M. Brown

University of Oxford, UK

Stuart Macgregor

Heriot-Watt University, Edinburgh, UK

Hans de Vries

DSM Pharmaceutical Products, The Netherlands

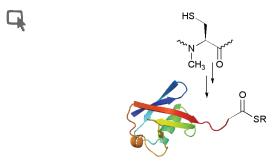
Offers of contributed papers related to the listed themes for poster presentation are invited by 16 July 2010. Visit www.rsc.org/DD12 for further information.

Registration will open in spring 2010.





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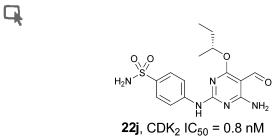


N-Methylcysteine-mediated total chemical synthesis of ubiquitin thioester

Lesly A. Erlich, K. S. Ajish Kumar, Mahmood Haj-Yahya, Philip E. Dawson and Ashraf Brik*

A new method for the synthesis of ubiquitin thioester was developed. The strategy was applied to the preparation of ubiquitylated α -synuclein(1–17), which was shown to be a substrate for the ubiquitin C-terminal hydrolase.

2397



Synthesis and biological evaluation of 5-substituted O⁴-alkylpyrimidines as CDK2 inhibitors

Francesco Marchetti, Céline Cano, Nicola J. Curtin, Bernard T. Golding, Roger J. Griffin, Karen Haggerty, David R. Newell, Rachel J. Parsons, Sara L. Payne, Lan Z. Wang and Ian R. Hardcastle*

CDK2 inhibitory structure-activity relationships have been explored for a range of 5-substituted O^4 -alkylpyrimidines. The 5-formyl derivatives show selectivity for CDK-2 over other CDK family members.

2408

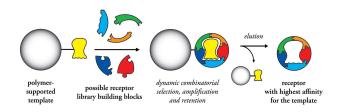


Acid/base controllable molecular switch based on a neutral phenanthroline guest penetrated pseudorotaxane

Masahiro Muraoka,* Hiromitsu Irie and Yohji Nakatsuji*

New pseudorotaxanes incorporating a bisamide macrocycle and neutral phenanthroline derivatives can be formed by hydrogen bonding and π -electron interaction, which gives a pH controllable reversible molecular switching system.

2414



Affinity chromatography in dynamic combinatorial libraries: one-pot amplification and isolation of a strongly binding receptor

Pol Besenius,* Peter A. G. Cormack,* R. Frederick Ludlow, Sijbren Otto and David C. Sherrington

We report the one-pot amplification and isolation of a nanomolar receptor in a multibuilding block aqueous dynamic combinatorial library consisting of well over 140 theoretical members using a polymer-bound template.

2419

The development and evaluation of a conducting matrix for the electrochemical regeneration of the immobilised co-factor NAD(H) under continuous flow

B. Ngamsom, A. M. Hickey, G. M. Greenway,* J. A. Littlechild, T. McCreedy, P. Watts and C. Wiles

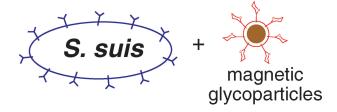
Employing a novel conducting controlled pore glass-poly(pyrrole) material for the co-immobilisation of HLADH and NAD(H), we were able to fabricate a reagent-less flow reactor capable of the continuous biosynthesis of chiral compounds under an applied voltage.

2425

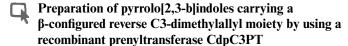
Detection of pathogenic Streptococcus suis bacteria using magnetic glycoparticles

Núria Parera Pera, Annika Kouki, Sauli Haataja, Hilbert M. Branderhorst, Rob M. J. Liskamp, Gerben M. Visser, Jukka Finne and Roland J. Pieters*

Magnetic glycoparticles can be used to bind, concentrate, and detect the pathogenic bacterium Streptococcus suis



2430



Wen-Bing Yin, Xia Yu, Xiu-Lan Xie and Shu-Ming Li*

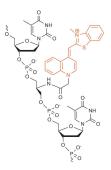
Six β-configured reversely C3-prenylated pyrrolo[2,3-b]indoles were successfully prepared from cyclic tryptophan-containing dipeptides by using a recombinant prenyltransferase from Neosartorya fischeri.

2439

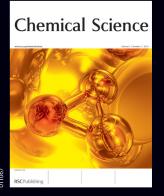
Designed thiazole orange nucleotides for the synthesis of single labelled oligonucleotides that fluoresce upon matched hybridization

Lucas Bethge, Ishwar Singh and Oliver Seitz*

DNA conjugates that contain thiazole orange as an artificial base were synthesized and studied by fluorescence spectroscopy, revealing that fluorescence-on-hybridization can only be obtained through careful design of the backbone structure.







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2449

Regioselective synthesis of 3-acylindolizines and benzoanalogues via 1,3-dipolar cycloadditions of N-ylides with maleic anhydride

Yun Liu, Yan Zhang, Yong-Miao Shen, Hong-Wen Hu and Jian-Hua Xu*

3-Acylindolizines and their benzo- analogues are regioselectively synthesized by one pot reactions of the N-ylide with maleic anhydride, taking advantage of the oxidative bisdecarboxylation and dehydrogenation of the primary cycloadducts by the mild oxidant tetrakispyridinecobalt(II) dichromate (TPCD).

2457

Synthesis of sulfonamide-based kinase inhibitors from sulfonates by exploiting the abrogated S_N 2 reactivity of 2,2,2-trifluoroethoxysulfonates

Christopher Wong, Roger J. Griffin, Ian R. Hardcastle, Julian S. Northen, Lan-Zhen Wang and Bernard T. Golding*

The reduced S_N 2 reactivity of the 2,2,2-trifluoroethyl group has been used for the synthesis of 6-cyclohexylmethoxy-2-aryl-aminopurines with a sulfonamide moiety attached to the aryl ring via CH₂; such compounds are inhibitors of kinases relevant to cancer treatment.

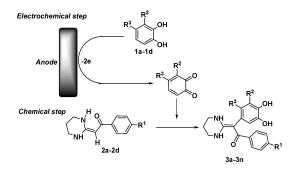
2465



Anodic oxidation of catechols in the presence of α -oxoketene N,N-acetals with a tetrahydropyrimidine ring: selective α-arylation reaction

Cheng-Chu Zeng,* Da-Wei Ping, Li-Ming Hu, Xiu-Qing Song and Ru-Gang Zhong

This paper provides an efficient way to obtain α -aryl α -oxoketene N,N-acetals with a tetrahydropyrimidine ring.



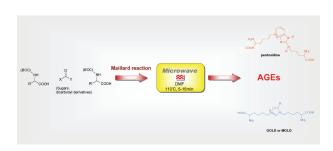
2473



Microwave-assisted Maillard reactions for the preparation of advanced glycation end products (AGEs)

Sonia Visentin, Claudio Medana, Alessandro Barge, Valeria Giancotti and Giancarlo Cravotto*

A MW-assisted Maillard reaction in DMF showed to be a straightforward method for the preparation of pentosidine and other AGE derivatives paving the road to a plethora of challenging scientific applications.



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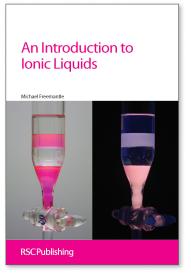
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Michael Freemantle

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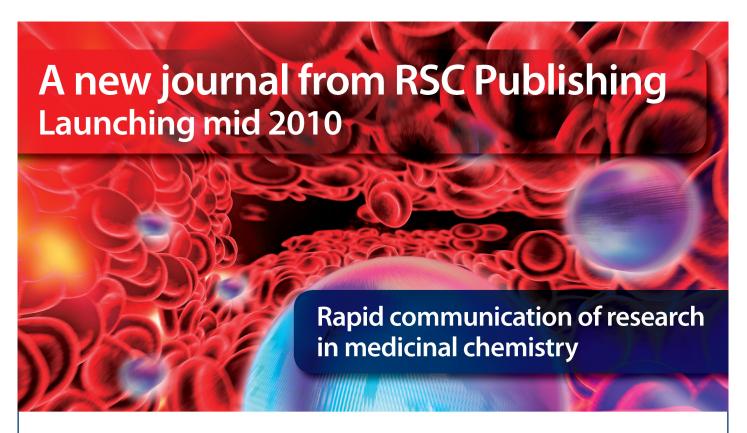
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