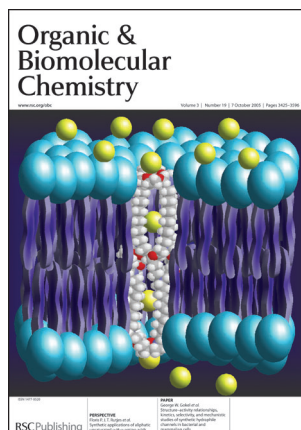
**Cover**

See Raphaël Rodriguez, John E. Moses, Robert M. Adlington and Jack E. Baldwin, pp. 3488–3495. Lucidene is a natural product isolated from the root bark of *Uvaria lucida* ssp. The co-isolation of  $\alpha$ -humulene from the same species led to speculation that lucidene is the product of two consecutive, inverse demand hetero Diels-Alder cycloadditions of  $\alpha$ -humulene with two equivalents of *o*-quinone methide. A biomimetic approach to the synthesis of lucidene is portrayed, with the elimination of water from hydroxymethyl-*o*-quinone methide, providing the driving force for the generation of the *o*-quinone methide.

Image reproduced by permission of John Moses from *Org. Biomol. Chem.*, 2005, **3**, 3488.

**Inside cover**

See W. Matthew Leevy, Seth T. Gammon, Tatiana Levchenko, David D. Daranciang, Oscar Murillo, Vladimir Torchilin, David Piwnica-Worms, James E. Huettner and George W. Gokel, pp. 3544–3550. Hydraphiles are synthetic ion channels that function in synthetic liposomes. This report shows that they are cytotoxic to Gram-negative and Gram-positive bacteria, yeast, and mammalian cells. Their cellular toxicity compares favorably with that of other synthetic ionophores and rivals the potency of natural antibiotics. Whole cell patch clamping with mammalian cells confirms a channel mechanism in living cells suggesting that this family may comprise novel and flexible pharmacological agents.

Image reproduced by permission of Matt Leevy and George Gokel from *Org. Biomol. Chem.*, 2005, **3**, 3544.

## CHEMICAL SCIENCE

## C73

Drawing together the research highlights and news from all RSC publications, *Chemical Science* provides a 'snapshot' of the latest developments across the chemical sciences showcasing newsworthy articles, as well as the most significant scientific advances.

**Chemical Science**

October 2005/Volume 2/Issue 10

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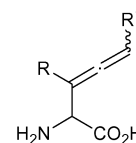
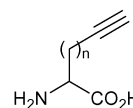
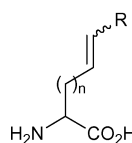
## PERSPECTIVE

## 3435

**Synthetic applications of aliphatic unsaturated  $\alpha$ -H- $\alpha$ -amino acids**

Jasper Kaiser, Sape S. Kinderman, Bart C. J. van Esseveldt, Floris L. van Delft, Hans E. Schoemaker, Richard H. Blaauw and Floris P. J. T. Rutjes\*

Unsaturated  $\alpha$ -H- $\alpha$ -amino acids are increasingly recognised as versatile synthons in (bio-)organic synthesis. Applications in the past five years have been reviewed.



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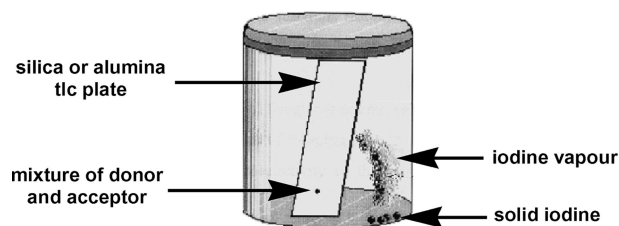
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### Glycosylation with *in situ* separation: carbohydrate chemistry on a TLC plate

Balaram Mukhopadhyay, Peter Cura, K. P. Ravindranathan Kartha, Catherine H. Botting and Robert A. Field\*

Iodine vapour promotes thioglycoside-based glycosylation chemistry on TLC plates, which in turn permits *in situ* separation by conventional elution with solvent.

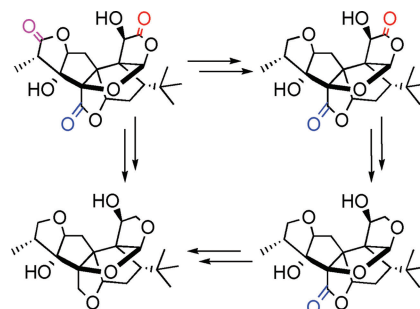


3471

### Lactone-free ginkgolides *via* regioselective DIBAL-H reduction

Hideki Ishii, Sergei V. Dzyuba\* and Koji Nakanishi\*

The lactone rings of ginkgolide A are converted into corresponding tetrahydrofuran moieties *via* DIBAL-H reduction followed by deoxygenation of the formed lactols with  $\text{Et}_3\text{SiH}-\text{BF}_3 \cdot \text{Et}_2\text{O}$  to produce a series of lactone-free ginkgolides.

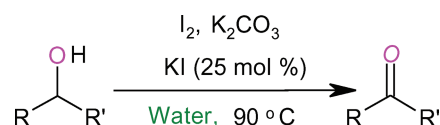


3473

### Transition-metal- and organic-solvent-free: a highly efficient anaerobic process for selective oxidation of alcohols to aldehydes and ketones in water

Pranjal Gogoi and Dilip Konwar\*

A mild, green and inexpensive reagent system,  $\text{I}_2-\text{KI}-\text{K}_2\text{CO}_3-\text{H}_2\text{O}$  for the selective anaerobic oxidation of alcohols to aldehydes and ketones in water has been developed

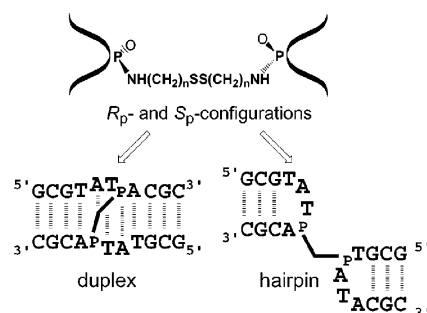


3476

### Structural arrangement of DNA constrained by a cross-linker

Masayuki Endo\* and Tetsuro Majima\*

Double helix and hairpin structures of self-complementary oligonucleotides were controlled by strain of a disulfide cross-linker and the diastereochemistry of a phosphoramidate linkage.

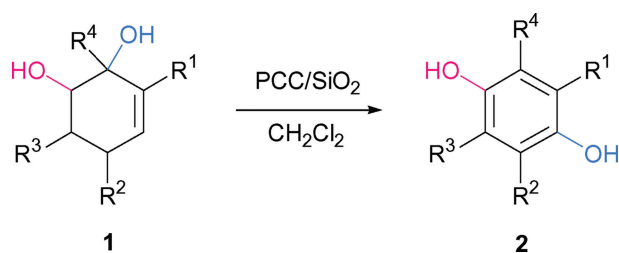


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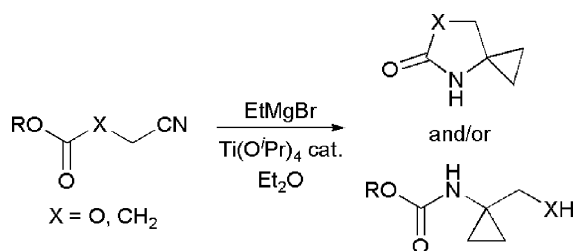
### Preparation of 1,4-hydrobenzoquinones by the PCC/SiO<sub>2</sub>-promoted double oxidation of 3-cyclohexene-1,2-diols

Hee Jin Kim and Sangho Koo\*

A practical synthetic method of **2** has been developed by the PCC/SiO<sub>2</sub> double oxidation of **1**.



3482

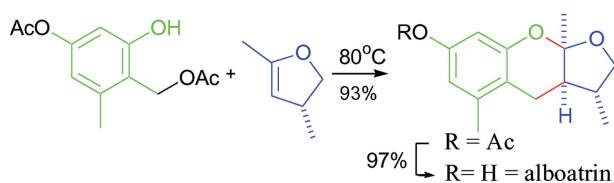


### Studies on the titanium-catalyzed cyclopropanation of nitriles

Christophe Laroche, Dominique Harakat, Philippe Bertus\* and Jan Szymoniak\*

A catalytic variant of the Ti-mediated synthesis of cyclopropylamines from nitriles is presented.

3488

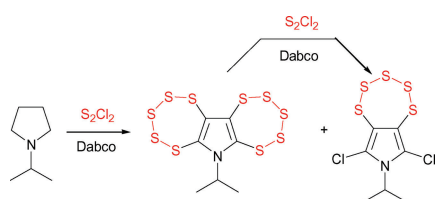


### A new and efficient method for *o*-quinone methide intermediate generation: application to the biomimetic synthesis of the benzopyran derived natural products (±)-lucidene and (±)-alboatrin

Raphaël Rodriguez, John E. Moses, Robert M. Adlington and Jack E. Baldwin\*

Experimental evidence is provided to support the hypothesis that a key step in the biogenesis of lucidene and alboatrin is a hetero Diels–Alder cycloaddition between an *o*-quinone methide intermediate with a simple, or activated tri-substituted olefin.

3496

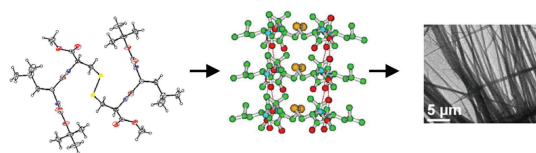


### Direct synthesis of fused 1,2,3,4,5-pentathiepins

Stanislav A. Amelichev, Lidia S. Konstantinova, Konstantin A. Lyssenko, Oleg A. Rakitin\* and Charles W. Rees\*

Fused mono and bispentathiepins are readily available in novel one-pot cascade reactions of nucleophilic heterocycles with  $\text{S}_2\text{Cl}_2$  and DABCO.

3502

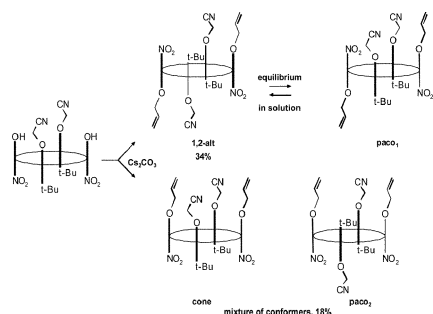


### The role of the disulfide bond in amyloid-like fibrillogenesis in a model peptide system

Apurba Kumar Das, Michael G. B. Drew, Debasish Haldar and Arindam Banerjee\*

Stepwise self-assembly of peptide 1 to form supramolecular  $\beta$ -sheet structures and fibrils in the solid state.

3508



### Conformational properties of cyanomethoxy calix[4]arenes

Crenguta Danila, Volker Böhmer\* and Michael Bolte

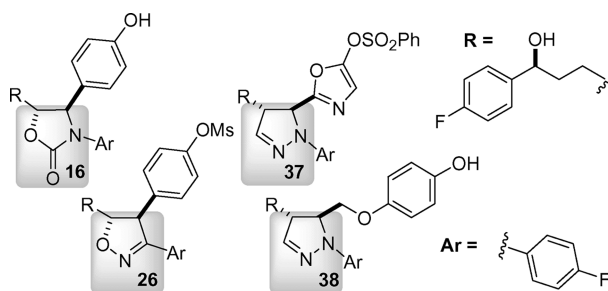
The cyanomethoxy residue can pass through the annulus of the calixarene skeleton and the 1,2-*alternate* conformer is in equilibrium with the *partial cone* conformer in solution.

3514

### Heterocyclic ring scaffolds as small-molecule cholesterol absorption inhibitors

Tobias Ritter, Lisbet Kværnø, Moritz Werder, Helmut Hauser and Erick M. Carreira\*

Enantio- and diastereoselective syntheses of a substituted oxazolidinone, isoxazoline and pyrazoline and investigation of their *in vitro* inhibitory efficacy as cholesterol absorption inhibitors is described.

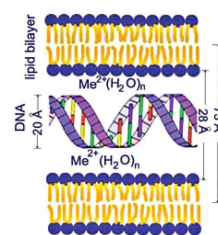


3524

### Fe<sup>2+</sup> promoted peroxidation of 1,2-diacyl-*sn*-glycero-3-phosphocholine liposomes in the presence of calf thymus DNA

Paolo Bruni,\* Michela Pisani, Marco Iacussi and Oriano Francescangeli

Fe<sup>2+</sup> promoted liposome (L) peroxidation is strongly influenced by the presence of DNA which shows a marked catalytic effect. This behaviour depends on the fact that DNA is embedded in a ternary complex L–DNA–Fe<sup>2+</sup>.



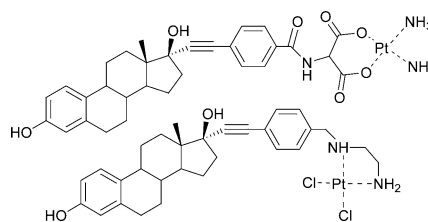
3531



### Synthesis and characterisation of estrogenic carriers for cytotoxic Pt(II) fragments: biological activity of the resulting complexes

Elisabetta Gabano, Claudio Cassino, Samuele Bonetti, Cristina Prandi, Donato Colangelo, AnnaLisa Ghiglia and Domenico Osella\*

We describe the synthesis, the spectroscopic characterisation and the biological properties of two estradiol functionalized platinum(II) complexes that still retain an acceptable degree of affinity for the estrogen receptor.

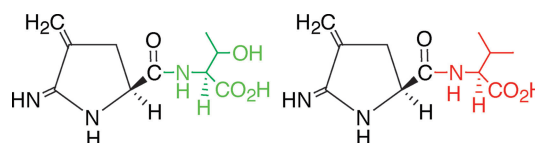


3540

### Antibacterial iminopyrrolidines from *Burkholderia plantarii*, a bacterial pathogen of rice

Robin E. Mitchell\* and Katrina L. Teh

Antibacterial compounds produced by *Burkholderia plantarii* were isolated and shown to consist of 2-imino-3-methylene-pyrrolidine-5-carboxylic acid coupled to threonine or valine.

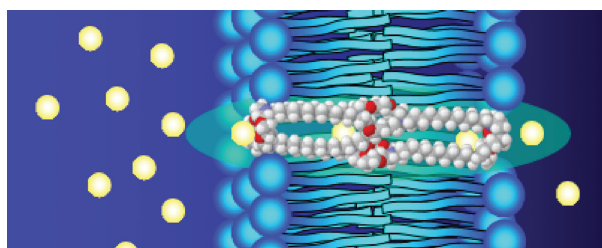


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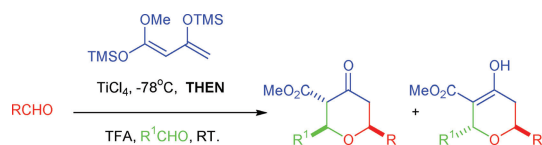
### Structure–activity relationships, kinetics, selectivity, and mechanistic studies of synthetic hydropile channels in bacterial and mammalian cells

W. Matthew Leevy, Seth T. Gammon, Tatiana Levchenko, David D. Daranciang, Oscar Murillo, Vladimir Torchilin, David Piwnica-Worms, James E. Huettner and George W. Gokel\*

Hydropile compounds are shown to be cytotoxic to Gram-negative and Gram-positive bacteria, yeast, and mammalian cells.



3551

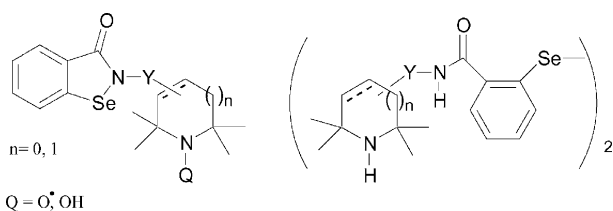


### The one-pot, multi-component construction of highly substituted tetrahydropyran-4-ones using the Maitland–Japp reaction

Paul A. Clarke,\* William H. C. Martin, Jason M. Hargreaves, Claire Wilson and Alexander J. Blake

A one-pot, multi-component diastereoselective reaction for the synthesis of highly substituted tetrahydropyran-4-ones, based on the long forgotten Maitland–Japp reaction has been realised. This procedure can also be extended to the formation of tetrahydropyran-4-ones in greater than 95% enantiomeric excess.

3564

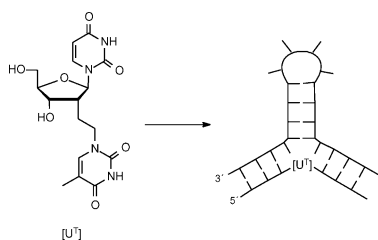


### Combining benzo[*d*]isosenazol-3-ones with sterically hindered alicyclic amines and nitroxides: enhanced activity as glutathione peroxidase mimics

Tamas Kálai, Govindasamy Mugesh, Gouriprasanna Roy, Helmut Sies, Zoltán Berente and Kálmán Hideg\*

The synthesis of ebselen-based compounds with sterically hindered redox-active pyrroline substituents with enhanced GPx activity is described.

3570

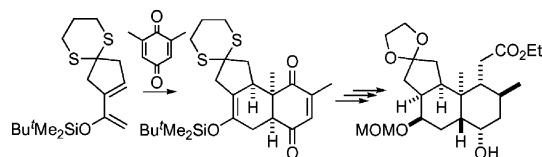


### Stabilisation of nucleic acid secondary structures by oligonucleotides with an additional nucleobase; synthesis and incorporation of 2'-deoxy-2'-C-(2-(thymine-1-yl)-ethyl)uridine

Søren Ljungberg Pedersen and Poul Nielsen\*

A nucleoside with two nucleobases was incorporated into oligonucleotides which were found to form stable duplexes and three-way junctions with increased stability.

3576

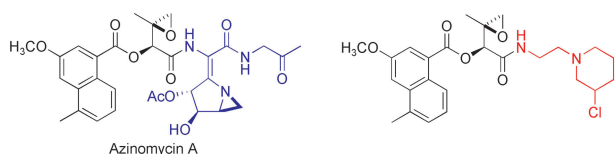


### Synthetic studies toward the kempene diterpenes. Construction of a key tricyclic intermediate

Guanglin Bao, Liang Zhao and D. Jean Burnell\*

The preparation is reported of a tricyclic compound that possesses the functionality and the relative stereochemistry, at eight centres, present in the tetracyclic kempene diterpenes.

3585



### Design and synthesis of a DNA-crosslinking azinomycin analogue

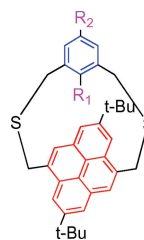
Maxwell A. Casely-Hayford, Klaus Pors, Colin H. James, Laurence H. Patterson, John A. Hartley and Mark Searcey\*

A designed analogue of the azinomycins crosslinks duplex DNA.

3590

**Syntheses, structural properties, and charge-transfer complexes of pyrenophanes**

Akihiko Tsuge,\* Megumi Otsuka, Tetsuji Moriguchi and Kazunori Sakata

Charge-transfer complexes of **3a–i** and TCNE have been examined.

- 3a:** R<sub>1</sub>=H R<sub>2</sub>=CH<sub>3</sub>  
**3b:** R<sub>1</sub>=H R<sub>2</sub>=OCH<sub>3</sub>  
**3c:** R<sub>1</sub>=OCH<sub>3</sub> R<sub>2</sub>=H  
**3d:** R<sub>1</sub>=H R<sub>2</sub>=NO<sub>2</sub>  
**3e:** R<sub>1</sub>=NO<sub>2</sub> R<sub>2</sub>=H  
**3f:** R<sub>1</sub>=F R<sub>2</sub>=H  
**3g:** R<sub>1</sub>=R<sub>2</sub>=H  
**3h:** R<sub>1</sub>=H R<sub>2</sub>=NH<sub>2</sub>  
**3i:** R<sub>1</sub>=NH<sub>2</sub> R<sub>2</sub>=H

## ADDITIONS AND CORRECTIONS

3594

**Structural properties of cyclic peptides containing *cis*- or *trans*-2-aminocyclohexane carboxylic acid**

Ulf Strijowski and Norbert Sewald

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**Controlled intracellular localization and enhanced antisense effect of oligonucleotides by chemical conjugation**

Takanori Kubo, Zhivko Zhelev, Bakalova Rumiana, Hideki Ohba, Keiko Doi and Masayuki Fujii

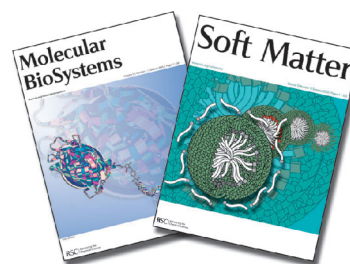
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