

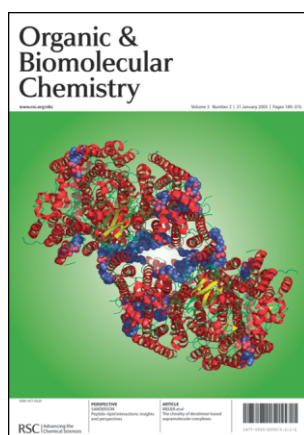
## In this issue...

## Synthesis and stereochemistry of musacins

Relative and absolute stereochemistry of several musacins unequivocally assigned. See Kinoshita *et al.* page 295.



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## Cover

See John M. Sanderson, pp. 201–212. The illustration depicts protein-bound lipid molecules in the x-ray crystal structure of the mitochondrial membrane protein Cytochrome C Oxidase (from pdb entry 1v54). The image was prepared using the program PyMol (DeLano Scientific, San Carlos, CA, USA. <http://www.pymol.org>).

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## PERSPECTIVE

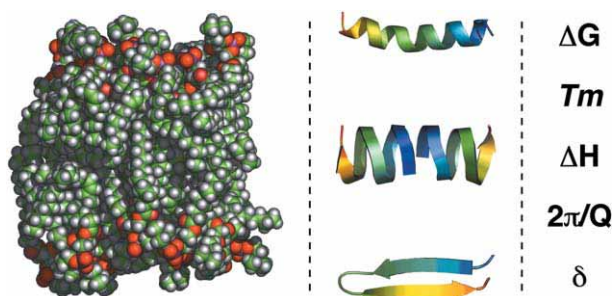
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## Peptide–lipid interactions: insights and perspectives

John M. Sanderson\*

Studies of peptide interactions with membrane lipids allow elucidation of the roles of lipid ordering and curvature strain in processes such as budding, fusion and antimicrobial activity.



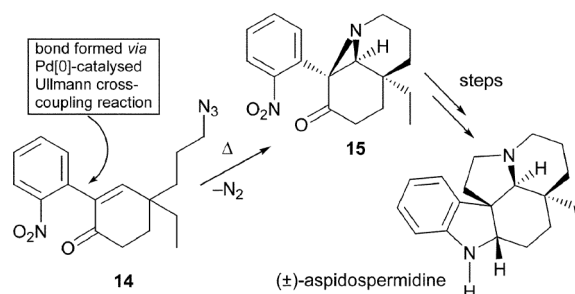
## COMMUNICATIONS

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## Exploiting the palladium[0]-catalysed Ullmann cross-coupling reaction in natural products chemistry: application to a total synthesis of the alkaloid (±)-aspidospermidine

Martin G. Banwell\* and David W. Lupton

Azide **14**, available through the title cross-coupling process, has been converted, *via* the ring-fused aziridine **15**, into the alkaloid aspidospermidine.



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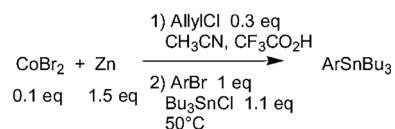
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### New and simple one-step cobalt-catalyzed preparation of functionalized arylstannanes from the corresponding aryl bromides or iodides

Corinne Gosmini\* and Jacques Périchon

A variety of functionalized arylstannanes are obtained in moderate to excellent yields by a one-step chemical procedure from corresponding halides and tributylstannyl chloride *via* cobalt catalysis.

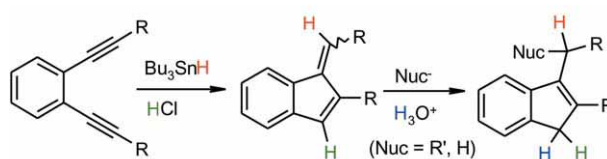


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### Synthesis of selectively deuterated fulvenes and indenenes from enediynes

Scott W. Peabody, Boris Breiner, Serguei V. Kovalenko, Satish Patil and Igor V. Alabugin\*

A facile enediyne  $\rightarrow$  fulvene  $\rightarrow$  indene transformation provides a route to all possible isotopomers of substituted fulvenes and indenenes.

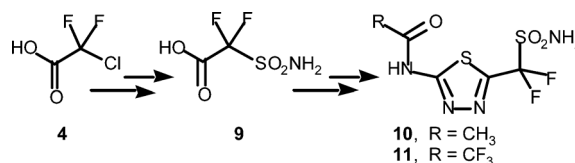


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### A new synthesis of difluoromethanesulfonamides—a novel pharmacophore for carbonic anhydrase inhibition

Nicholas A. Boyle, W. Richard Chegwidden and G. Michael Blackburn\*

A novel, efficient synthesis of carboxydifluoromethanesulfonamide makes available a new range of inhibitors for carbonic anhydrase.

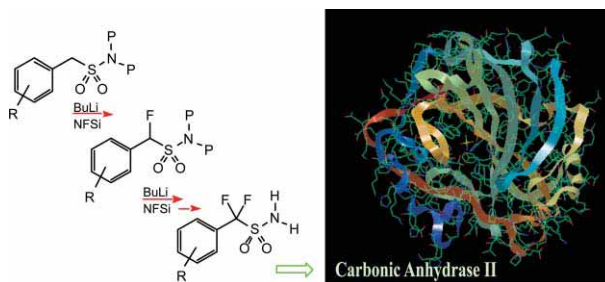


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### Synthesis of $\alpha$ -fluoro- and $\alpha,\alpha$ -difluoro-benzenesulfonamides: new inhibitors of carbonic anhydrase

G. Michael Blackburn\* and Hasan Türkmen

Direct fluorination of arenemethanesulfonamide anions under mild conditions and in high yield has been accomplished using *N*-fluorobisbenzenesulfonimide.



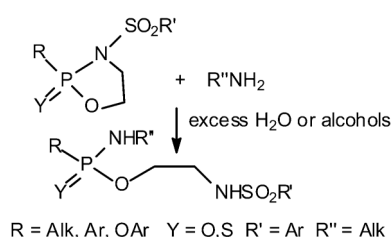
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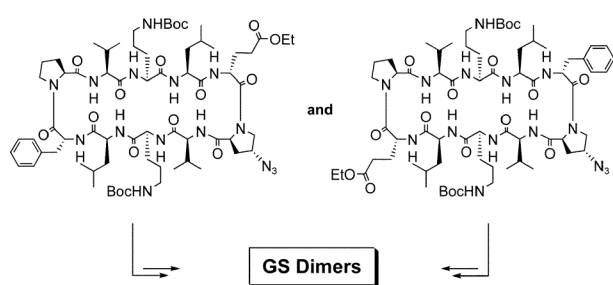
### Phospholidines incorporating a $\beta$ *N*-sulfonylaminoalcohol moiety: first observed selectivity of phosphorus heterocycle aminolysis in the presence of water

Frédéric Dujols, Laurence Marty and Michel Mulliez\*

The good sulfonamide leaving group enables selective phosphorylation of primary aliphatic amines.



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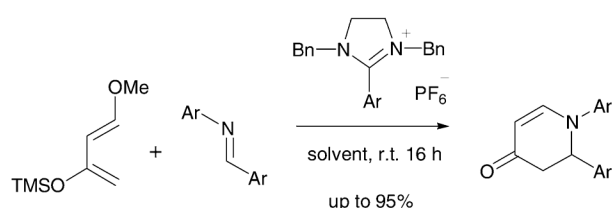


### Synthesis and biological evaluation of gramicidin S dimers

Gijsbert M. Grotenbreg, Martin D. Witte, Peter A. V. van Hooft, Emile Spalburg, Philipp Reiß, Daan Noort, Albert J. de Neeling, Ulrich Koert, Gijsbert A. van der Marel, Herman S. Overkleeft\* and Mark Overhand\*

The design, synthesis and biological evaluation of a collection of dimeric gramicidin S analogues.

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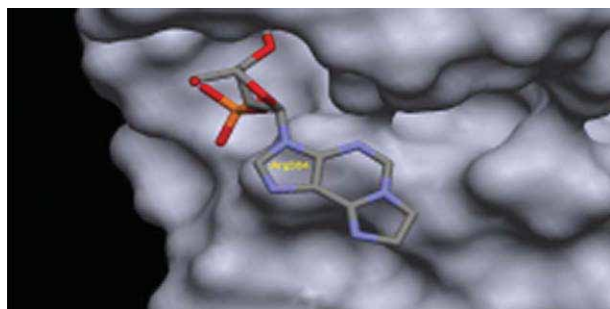


### Imidazolium salts as catalysts for the aza-Diels–Alder reaction

Václav Jurčík and René Wilhelm\*

Easily accessible imidazolium salts act as organocatalysts for the aza-Diels–Alder reaction, giving the products in up to 95% yield.

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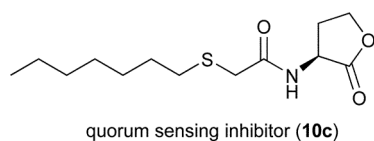


### Adenophostin A and analogues modified at the adenine moiety: synthesis, conformational analysis and biological activity

Charles N. Borissow, Steven J. Black, Michael Paul, Stephen C. Tovey, Skarlatos G. Dedos, Colin W. Taylor and Barry V. L. Potter\*

New biologically active structurally modified mimics of the potent agonist adenophostin A were synthesized and studied conformationally by NMR and molecular modelling giving insight into the binding of adenophostin to the IP<sub>3</sub> receptor.

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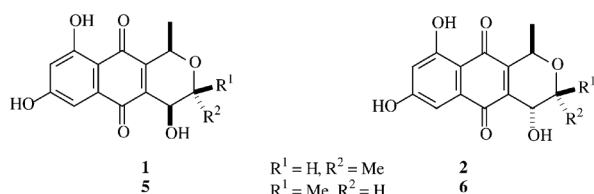


### Rational design and synthesis of new quorum-sensing inhibitors derived from acylated homoserine lactones and natural products from garlic

Tobias Persson, Thomas H. Hansen, Thomas B. Rasmussen, Mette E. Skindersø, Michael Givskov and John Nielsen\*

A parallel approach to novel scaffolds was developed, which leads to discovery of potent quorum-sensing inhibitors in *Pseudomonas aeruginosa*.

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### Syntheses in enantiopure form of four diastereoisomeric naphthopyranquinones derived from aphid insect pigments

Rachna Aggarwal, Robin G. F. Giles,\* Ivan R. Green, Francois J. Oosthuizen and C. Peter Taylor

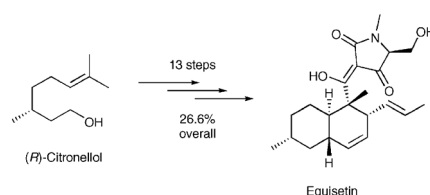
The first assembly of the monochiral naphthopyranquinones **1**, **2**, **5** and **6** is reported, from either (*R*)- or (*S*)-lactate.

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### Total synthesis of the *Fusarium* toxin equisetin

Lisa T. Burke, Darren J. Dixon,\* Steven V. Ley and Félix Rodríguez

A short stereoselective synthesis of the *Fusarium* toxin equisetin, a potent inhibitor of HIV-1 integrase enzyme, using an IMDA key step is described.

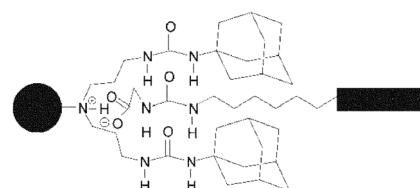


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### The chirality of dendrimer-based supramolecular complexes

Maarten A. C. Broeren, Bas F. M. de Waal, Joost L. J. van Dongen, Marcel H. P. van Genderen and E. W. Meijer\*

Complexes between guest molecules containing Boc-protected L-phenylalanine and several urea–adamantyl dendrimers were prepared and characterized. The mobility of the end groups was investigated by optical rotation experiments.



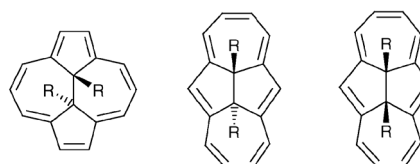
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### Theoretical (DFT, GIAO–NMR, NICS) study of carbocations ( $M+H$ ), dication ( $M^{2+}$ ) and dianion ( $M^{2-}$ ) from dihydro-dicyclopenta[*ef,k*]heptalene (dihydro-azupyrene), dihydro-dicyclohepta[*ed,gh*]pentalene, and related bridged [14]annulenes

Takao Okazaki and Kenneth K. Laali\*

Annulene monocations, dication, and dianions derived from dihydrodicyclopenta[*ef,k*]heptalenes, dihydrodicyclohepta[*ed,gh*]pentalenes, and the related bridged [14]annulenes were studied by DFT at the B3LYP/6-31G(d) and 6-31+G(d,p) levels.

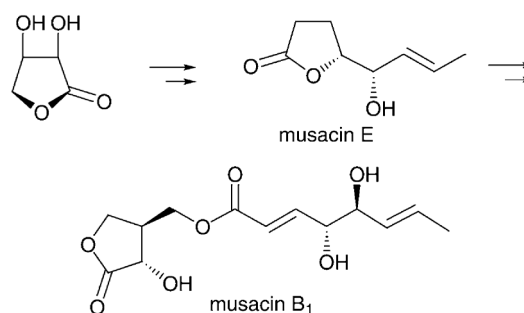


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### Synthesis and stereochemistry of musacins isolated from *Streptomyces griseoviridis* (FH-S 1832)

Toshihiko Ueki and Takamasa Kinoshita\*

The stereoselective synthesis of musacins, new secondary metabolites with anthelmintic and antiviral activities, is described.



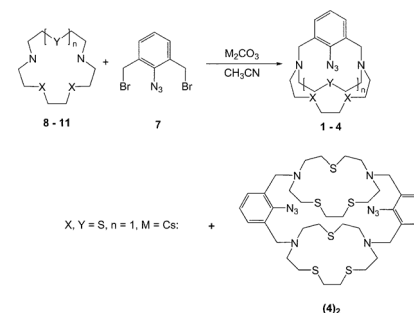
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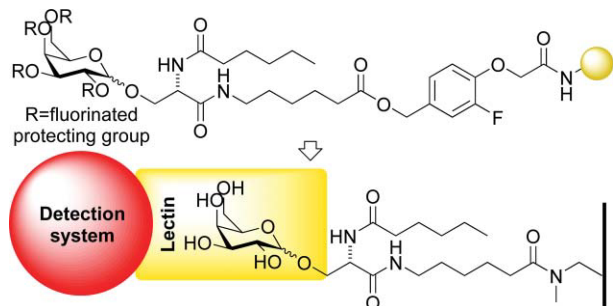
### Azidocryptands—synthesis, structure, and complexation properties

Christina Tönshoff, Klaus Merz and Götz Bucher\*

Will an aryl azide serve as a ligand to alkali cations? The answer is yes. Structural aspects and complexation properties of azido-functionalized cryptands are described.



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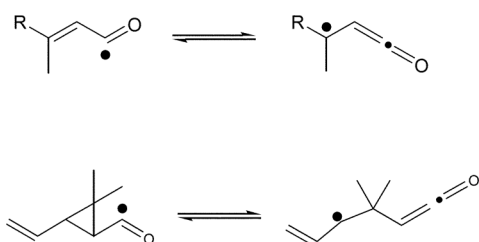


### Solid-phase synthesis of serine-based glycosphingolipid analogues for preparation of glycoconjugate arrays

Fredrik K. Wallner, Henrik A. Norberg, Annika I. Johansson, Mickael Mogemark and Mikael Elofsson\*

Glycoconjugate arrays were prepared with galactosylceramide analogues obtained by solid-phase synthesis using a fluorinated linker and  $^{19}\text{F}$ -NMR spectroscopy as monitoring technique.

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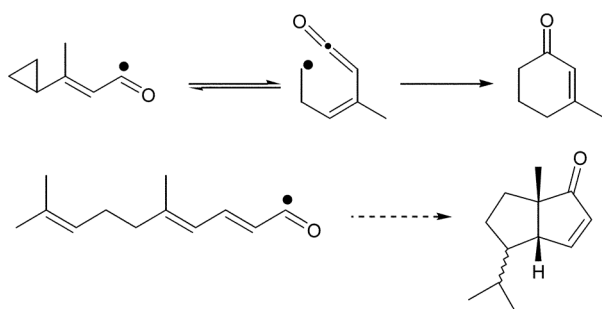


### $\alpha,\beta$ -Unsaturated and cyclopropyl acyl radicals, and their ketene alkyl radical equivalents. Ring synthesis and tandem cyclisation reactions

Christopher J. Hayes, Nicola M. A. Herbert, Nicole M. Harrington-Frost and Gerald Pattenden\*

Substituted  $\alpha,\beta$ -unsaturated acyl and cyclopropyl acyl radical intermediates undergo separate cyclisations *via* their equivalent ketene alkyl radical species leading to a range of interesting ring structures.

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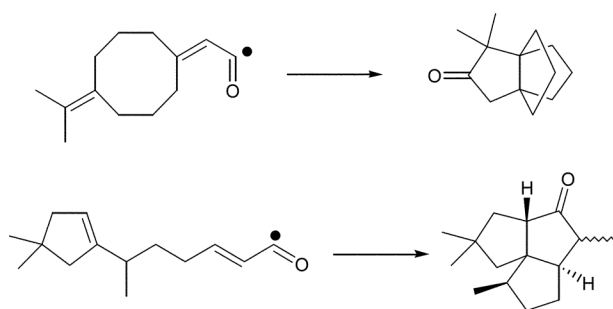


### Vinylcyclopropyl acyl and polyene acyl radicals. Intramolecular ketene alkyl radical additions in ring synthesis

Benoît De Boeck, Nicola M. A. Herbert, Nicole M. Harrington-Frost and Gerald Pattenden\*

Substituted conjugated polyene acyl and vinylcyclopropyl acyl radical intermediates undergo separate rearrangement and intramolecular cyclisations *via* their ketene alkyl radical equivalents, leading to cyclohexenones, cyclopentenones and diquinanes.

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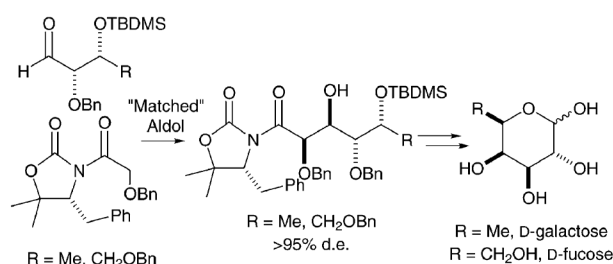


### Tandem cyclisations involving $\alpha$ -ketenyl alkyl radicals. New syntheses of the natural triquinanes pentalenene and modhephene

Benoît De Boeck, Nicole M. Harrington-Frost and Gerald Pattenden\*

New syntheses of the triquinanes pentalenene and modhephene, based on tandem cyclisations involving  $\alpha$ -ketene alkyl radical intermediates derived from  $\alpha,\beta$ -unsaturated acyl precursors, are described.

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### A SuperQuat glycolate aldol approach to the asymmetric synthesis of hexose monosaccharides

Stephen G. Davies,\* Rebecca L. Nicholson and Andrew D. Smith

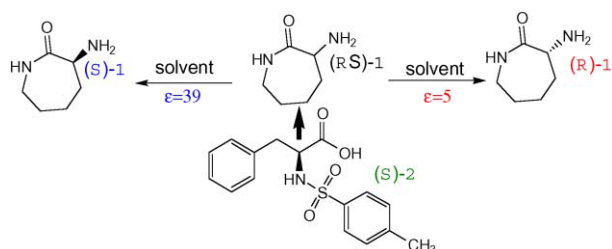
The asymmetric synthesis of the hexose monosaccharides D-galactose, D-fucose, D-idose, D-6-deoxyidose, D-talose and D-6-deoxytalose *via* an iterative double diastereoselective aldol approach is described.

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### Molecular mechanism of dielectrically controlled optical resolution (DCR)

Kenichi Sakai,\* Rumiko Sakurai, Toshio Akimoto and Noriaki Hirayama\*

A molecular mechanism of dielectrically controlled optical resolution (DCR) was disclosed based on crystal structures of diastereomeric salts.

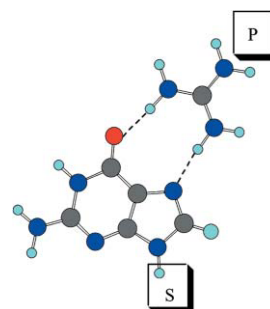


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### Modelling protein–RNA interactions: an electron density study of the guanidinium and formate complexes with RNA bases

Isabel Rozas,\* Ibon Alkorta and José Elguero

Complexes formed by double interactions between RNA bases and the guanidinium and formate cations have been explored theoretically.



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**The golden gate to catalysis**

Anja Hoffmann-Röder and Norbert Krause (DOI: 10.1039/b416516k)

**Stereoselective oxidation of protected inositol derivatives catalyzed by inositol dehydrogenase from *Bacillus subtilis***

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