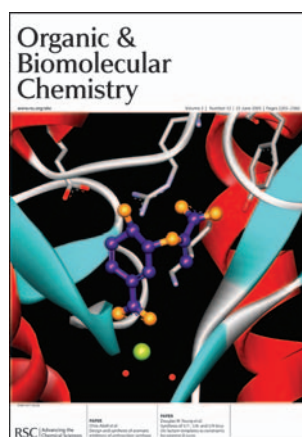
**Cover**

See Jeanne Crassous, Christian Chardonnet, Trond Saue and Peter Schwerdtfeger, pp. 2218–2224. The broken mirror: two enantiomers do not have exactly the same energy due to parity violation.

Image reproduced by permission of Jeanne Crassous.

**Inside Cover**

See Richard J. Payne, Miguel D. Toscano, Esther M. M. Bulloch, A. D. Abell and C. Abell, pp. 2271–2281. The magnesium ion in the active site of *Serratia marcescens* anthranilate synthase coordinates the C-1 carboxylate of chorismate. Hydrogen bonding interactions further bind the substrate into the active site.

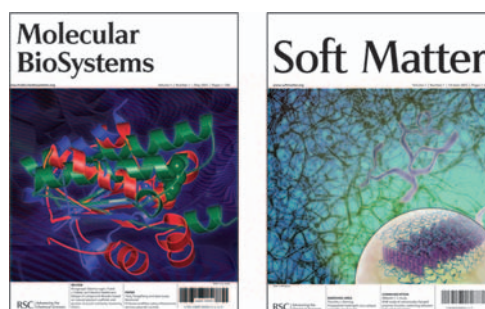
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## EDITORIAL

2217

### Two new interdisciplinary journals complement *Organic & Biomolecular Chemistry*

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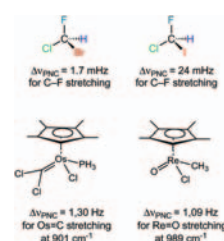
## EMERGING AREA

2218

### Recent experimental and theoretical developments towards the observation of parity violation (PV) effects in molecules by spectroscopy

Jeanne Crassous,\* Christian Chardonnet, Trond Saue and Peter Schwerdtfeger

Recent progress in attempts to observe parity violation (PV) in molecules by ultra-high resolution infra-red (IR) spectroscopy is presented.



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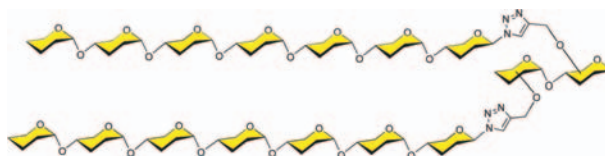
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2225

**“Click chemistry” en route to pseudo-starch**

Laurence Marmuse, Sergey A. Nepogodiev\* and Robert A. Field\*

Starch fragment analogues incorporating up to 16 glucopyranose residues are assembled using Cu(I)-catalyzed dipolar cycloaddition.

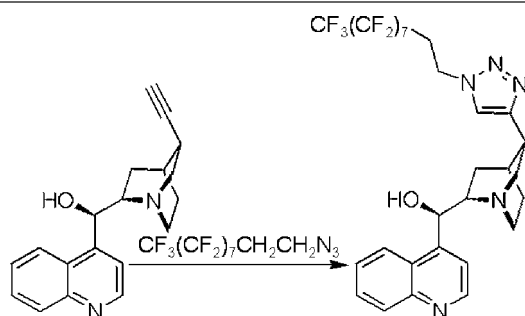


2228

**Fluorous click chemistry as a practical tagging method**

Zoltán Kaleta, Orsolya Egyed and Tibor Soós\*

Highly efficient fluorous tagging methodology was developed based on catalytic 1,3-dipolar cycloaddition as the key step.

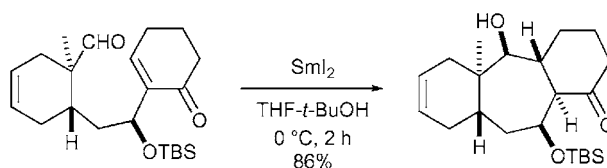


2231

**Synthetic studies on sugar-fused erinacines**

Ayato Sato, Tomoya Masuda, Hirokazu Arimoto\* and Daisuke Uemura

Samarium-mediated 7-endo-trig radical cyclization afforded excellent stereocontrol of the four contiguous asymmetric centers present in the 6-7-6 tricyclic cores of the (sugar-fused) erinacines E, F, and G.

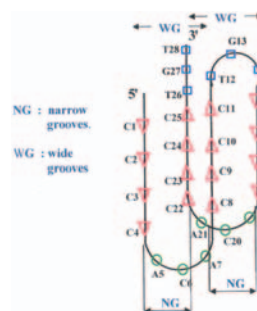


2234

**Solution conformation of d(C<sub>4</sub>ACAC<sub>4</sub>TGT)<sub>2</sub>; an intramolecularly folded i-motif from the insulin minisatellite**

Vandana V. Jolad, Fatima K. Murad, John R. P. Arnold and Julie Fisher\*

NMR-determined folding topology of a 28-mer DNA i-motif from the human insulin minisatellite region.



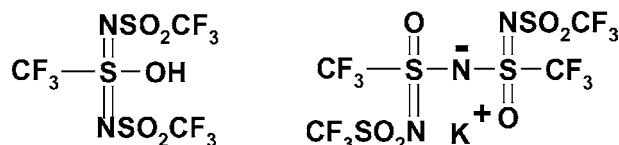
2237

**Diastereoselective reductive imino-aldol reaction of  $\alpha$ -imino esters promoted by titanium tetraiodide: synthesis of  $\alpha,\beta$ -diamino esters**

Makoto Shimizu,\* Koji Inayoshi and Tetsuya Sahara

Under the influence of titanium tetraiodide reductive imino-aldol reaction of the *N*-tosylimine derived from ethyl glyoxylate proceeded with aldimines to give  $\alpha,\beta$ -diamino esters in good yields in a highly diastereoselective manner.

2239

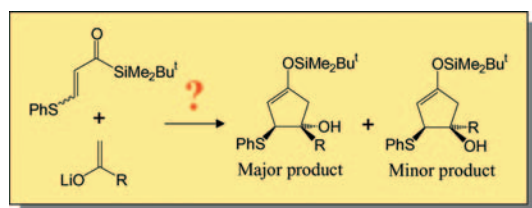


### Synthesis of new organic super acids—*N*-(trifluoromethylsulfonyl)imino derivatives of trifluoromethanesulfonic acid and bis(trifluoromethylsulfonyl)imide

Romute Yu Garlyauskayte,\* Alexander N. Chernega, Christophe Michot, Michel Armand, Yurii L. Yagupolskii and Lev M. Yagupolskii

Two novel organic super acids: bis[*N*-(trifluoromethylsulfonyl)-diiminotrifluoromethane sulfonimidoyl]imide and *N,N'*-bis(trifluoromethylsulfonyl)trifluoromethanesulfonic acid were prepared.

2244

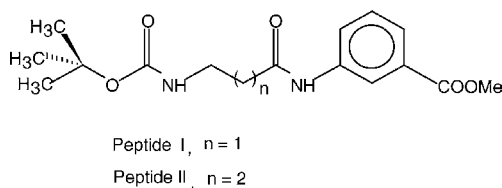


### *Ab initio* MO study on [3 + 2] annulation using $\beta$ -phenylthioacryloylsilanes with alkyl methyl ketone enolates and its through-space/bond interaction analysis

Yuuichi Orimoto, Kazunari Naka, Kei Takeda and Yuriko Aoki\*

*Ab initio* through-space/bond interaction analysis was applied to [3 + 2] annulation including an uncertain reaction mechanism wherein a bulky product becomes a majority.

2250

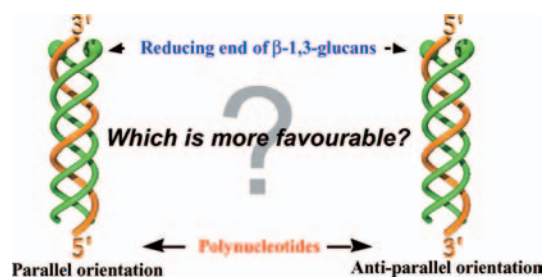


### $\beta$ -Sheet mediated self-assembly of dipeptides of $\omega$ -amino acids and remarkable fibrillation in the solid state

Anita Dutt, Michael G. B. Drew and Animesh Pramanik\*

Peptides I and II self-assemble into supramolecular  $\beta$ -sheet structures and form amyloid-like fibrils in the solid state.

2255

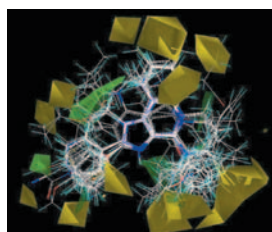


### Parallel vs. anti-parallel orientation in a curdlan/oligo(dA) complex as estimated by a FRET technique

Munenori Numata, Kazuya Koumoto, Masami Mizu, Kazuo Sakurai and Seiji Shinkai\*

Two different energy transfer systems have led us to conclude that in the curdlan/oligo(dA) complex, parallel orientation is more favourable than anti-parallel orientation.

2262



### New pyrazolo[3,4-*b*]pyridones as selective A<sub>1</sub> adenosine receptor antagonists: synthesis, biological evaluation and molecular modelling studies

Paola Fossa, Marco Pestarino, Giulia Menozzi,\* Luisa Mosti, Silvia Schenone, Angelo Ranise, Francesco Bondavalli, M. Letizia Trincavelli, Antonio Lucacchini and Claudia Martini

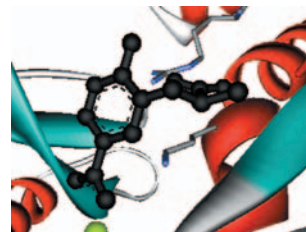
A series of new pyrazolo[3,4-*b*]pyridones has been synthesized, pharmacologically tested and studied with molecular modelling.

2271

**Design and synthesis of aromatic inhibitors of anthranilate synthase**

Richard J. Payne, Miguel D. Toscano, Esther M. M. Bulloch, Andrew D. Abell and Chris Abell\*

Aromatic chorismate analogues were synthesised and tested against anthranilate synthase. The most potent compound exhibited a  $K_i$  of 3  $\mu\text{M}$ .

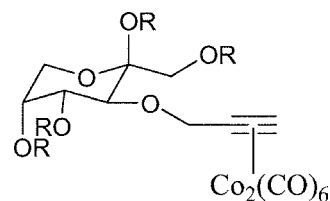


2282

**Synthesis, cytotoxicity, cellular uptake and influence on eicosanoid metabolism of cobalt–alkyne modified fructoses in comparison to auranofin and the cytotoxic COX inhibitor Co-ASS**

Ingo Ott, Thao Koch, Hashem Shorafa, Zhenlin Bai, Daniel Poeckel, Dieter Steinhilber and Ronald Gust\*

The antiproliferative effects of cobalt–alkyne modified fructopyranoses depend on the number of protecting groups and correlate with the cellular drug concentration.



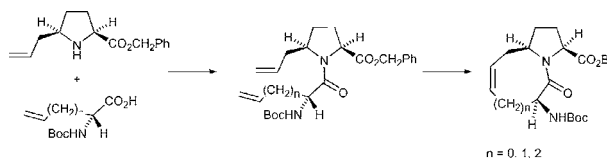
R= -H, isopropylidene

2287

**Synthesis of 5/7-, 5/8- and 5/9-bicyclic lactam templates as constraints for external  $\beta$ -turns**

Heather M. E. Duggan, Peter B. Hitchcock and Douglas W. Young\*

The synthesis of 5/7-, 5/8- and 5/9-bicyclic lactams by ring closing olefin metathesis is reported.

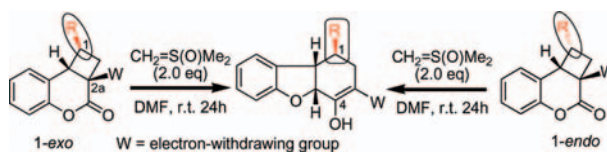


2296

**Novel stereoconvergent transformation of 1,2a-disubstituted 1,2,2a,8b-tetrahydro-3H-benzo[b]cyclobuta[d]pyran-3-ones to 1,3-disubstituted 1,2,4a,9b-tetrahydrodibenzofuran-4-ols and its application to the second-generation synthesis of ( $\pm$ )-linderol A**

M. Yamashita, T. Inaba, M. Nagahama, T. Shimizu, S. Kosaka, I. Kawasaki and S. Ohta\*

Treatment of 1-*exo*- and 1-*endo*-substituted benzocyclobutapyranones with sulfoxonium methylide stereoselectively afforded 1-substituted tetrahydrodibenzofuranol derivatives, and this methodology was applied to improved total synthesis of ( $\pm$ )-linderol A.

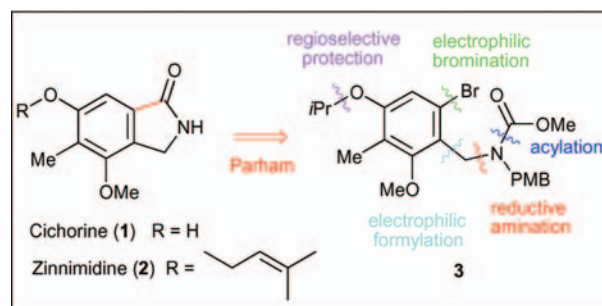


2305

**First total synthesis of cichorine and zinnimidine**

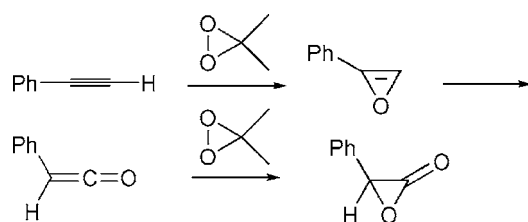
Anne Moreau, Axel Couture,\* Eric Deniau, Pierre Grandclaude and Stéphane Lebrun

The first total synthesis of the phytotoxins cichorine and zinnimidine is described. The key step is a Parham reaction applied to a polyfunctionalized bromoaryl derivative with a carbamate acting as the internal electrophile.





2310

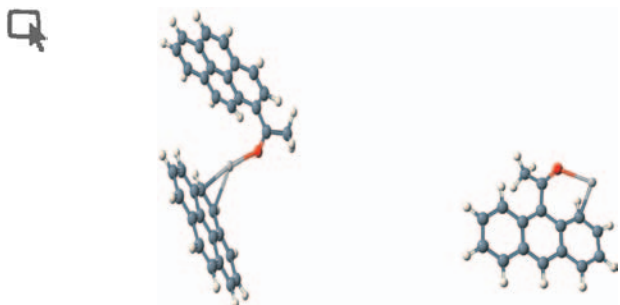


### The dimethyldioxirane-mediated oxidation of phenylethyne

Klaus-Peter Zeller,\* Meike Kowallik and Peter Haiss

Oxygen transfer from dimethyldioxirane to phenylethyne yields phenylglyoxal, followed by rearrangement to phenylketene and further oxidation to the  $\alpha$ -lactone of mandelic acid.

2319

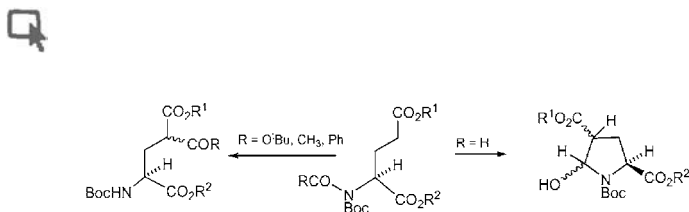


### Electrospray mass spectrometric and DFT study of substituent effects in Ag<sup>+</sup> complexation to polycyclic aromatic hydrocarbons (PAHs)

Kenneth K. Laali,\* Scott Hupertz, Alice G. Temu and Sergio E. Galembeck\*

Substituent effect on Ag<sup>+</sup> complexation in several classes of PAHs was probed *via* competitive experiments by ES-MS; complexation modes were studied by DFT.

2327

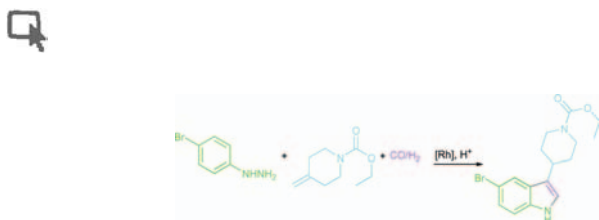


### Synthesis of protected $\gamma$ -carboxyglutamates and $\gamma$ -acylglutamates by rearrangement of *N,N*-diacylglutamates

Anthony G. Avent, Heather M. E. Duggan and Douglas W. Young\*

A new method has been devised for the preparation of 4-carboxyglutamates and 4-acylglutamates involving rearrangement of *N,N*-diacylglutamates.

2333

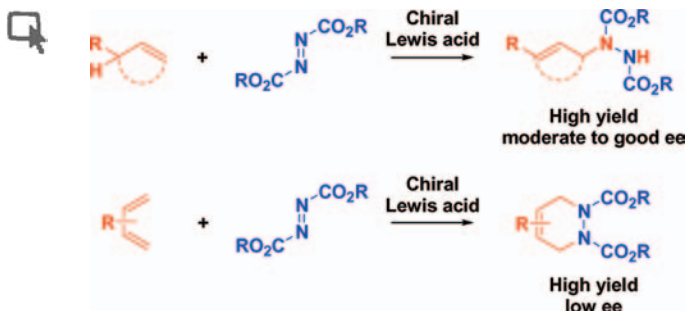


### Tandem hydroformylation–hydrazone formation–Fischer indole synthesis: a novel approach to tryptamides

Axel M. Schmidt and Peter Eilbracht\*

A novel one-pot synthesis of biologically interesting tryptamides and analogues starting from allylic amides and aryl hydrazines is described.

2344



### Catalytic and enantioselective aza-ene and hetero-Diels–Alder reactions of alkenes and dienes with azodicarboxylates

Pompiliu S. Aburel, Wei Zhuang, Rita G. Hazell and Karl Anker Jørgensen\*

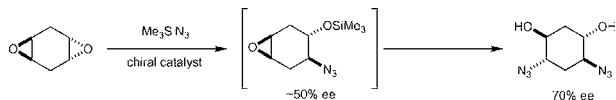
The development of the Lewis-acid catalyzed reactions of azodicarboxylates with different alkenes and hetero-Diels–Alder reaction of conjugated dienes with azodicarboxylates is reported.

2350

**Asymmetric double ring-opening of a  $C_{2h}$ -symmetric bis-epoxide: improved enantiomeric excess of the product through enantioselective desymmetrisation and 'proof-reading' steps**

Alan Ironmonger, Peter Stockley and Adam Nelson\*

A new strategy in asymmetric synthesis is described in which the desymmetrisation of a  $C_{2h}$ -symmetric molecule is followed by a subsequent enantioselective 'proof-reading' step.

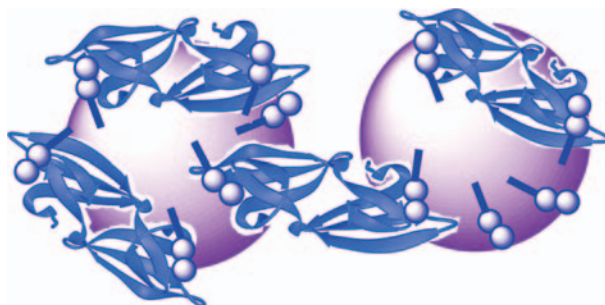


2354

**Cyanovirin-N binding to Man $\alpha$ 1-2Man functionalized dendrimers**

Shane L. Mangold, Joel R. Morgan, Gregory C. Strohmeyer, Angela M. Gronenborn and Mary J. Cloninger\*

Man $\alpha$ 1-2Man functionalized PAMAM dendrimers mimic the oligosaccharide portion of glycoprotein GP-120, as demonstrated by dendrimer-Cyanovirin-N binding.



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Joan-Antoni Farrera, Pedro Hidalgo-Fernández, Jurry M. Hannink, Jurriaan Huskens, Alan E. Rowan, Nico A. J. M. Sommerdijk and Roeland J. M. Nolte (DOI: 10.1039/b505700k)

**Communication: Oxidation of *N*-substituted dopamine derivatives: irreversible formation of a spirocyclic product**

Edward J. Land, Almudena Perona, Christopher A. Ramsden and Patrick A. Riley (DOI: 10.1039/b505946a)

**Enhanced delivery of  $\gamma$ -secretase inhibitor DAPT into brain via an ascorbic acid mediated strategy**

Gilles Quéléver, Philippe Kachidian, Christophe Melon, Cédrik Garino, Younes Laras, Nicolas Pietrancosta, Mahmoud Sheha and Jean Louis Kraus (DOI: 10.1039/b504988a)

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Barbara Branchi, Carlo Galli and Patrizia Gentili (DOI: 10.1039/b504199f)

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Jonathan P. May, Lynda J. Brown, Ian van Delft, Nicola Thelwell, Kate Harley and Tom Brown (DOI: 10.1039/b504759e)

**Synthetic studies towards furanocembrane diterpenes. A total synthesis of bis-deoxylophotoxin**

Manuel Cases, Felix Gonzalez-Lopez de Turiso, Maria S. Hadjisoteriou and Gerald Pattenden (DOI: 10.1039/b504545b)

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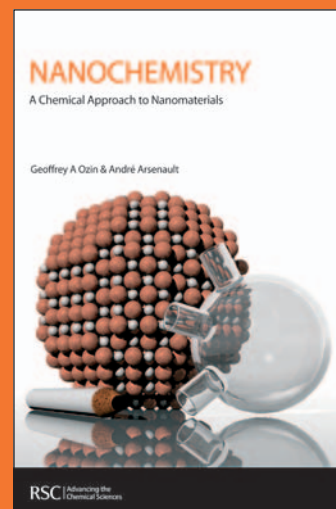
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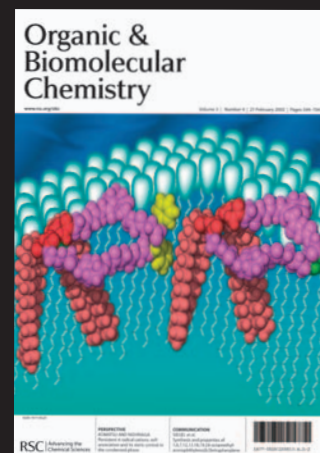
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