

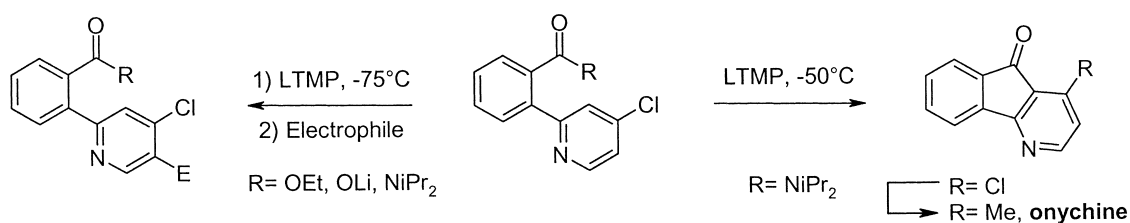
Contents

ARTICLES

Regioselectivities in deprotonation of 2-(4-chloro-2-pyridyl)benzoic acid and corresponding ester and amide

pp 2181–2186

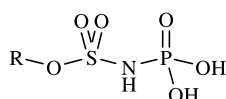
Anne-Sophie Rebstock, Florence Mongin,\* François Trécourt and Guy Quéguiner



New pyrophosphate analogues: a facile access to *N*-(*O*-alkylsulfamoyl)phosphoramidic acids via a simple and quantitative reaction of *N*-(*O*-alkylsulfamoyl)trimethylphosphal<sup>5</sup>-azene with bromotrimethylsilane and water

pp 2187–2190

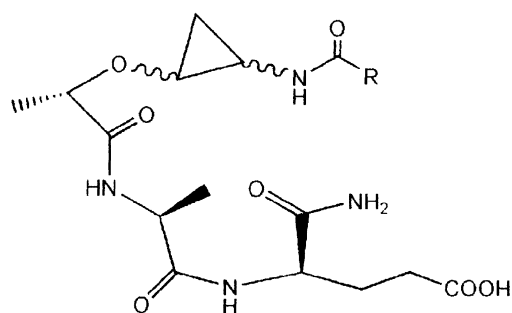
Laurent Bonnac, Véronique Barragan, Jean-Yves Winum and Jean-Louis Montero\*



Synthesis of cyclopropanoid 2-*epi*-muramyldipeptide analogues as potential immunostimulants

pp 2191–2199

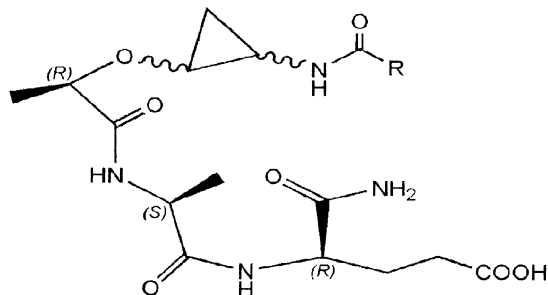
René Csuk\* and Gunnar Göthe



**Synthesis of cyclopropanoid analogues of *N*-acyl-muramyl dipeptide as potential immunostimulants**

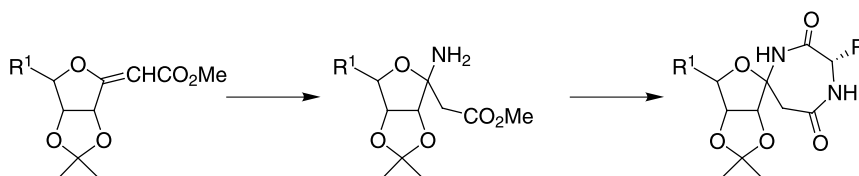
pp 2201–2211

René Csuk\* and Gunnar Göthe


**Anomeric spiroannulated 1,4-diazepine 2,5-diones from furano *exo*-glycals: towards a new class of spironucleosides**

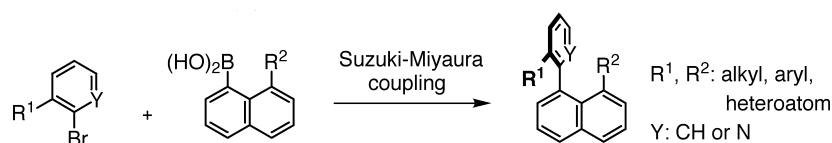
pp 2213–2224

Claude Taillefumier,\* Sabine Thielges and Yves Chapleur


**Synthesis of novel 1-aryl-substituted 8-methoxynaphthalenes and their tendency for atropisomerization**

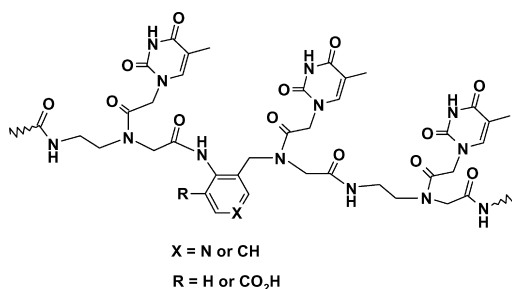
pp 2225–2234

Seiji Yoshikawa, Jun-ichi Odaira, Yuki Kitamura, Ashutosh V. Bedekar, Takumi Furuta and Kiyoshi Tanaka\*


**Synthesis of novel analogs of aromatic peptide nucleic acids (APNAs) with modified conformational and electrostatic properties**

pp 2235–2246

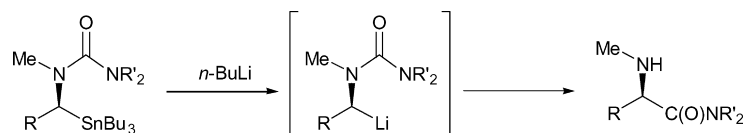
Lee D. Fader, Eddie L. Myers and Youla S. Tsantrizos\*



**An unusual 1,2-N→C acyl migration in urea derivatives of  $\alpha$ -aminoorganolithiums**

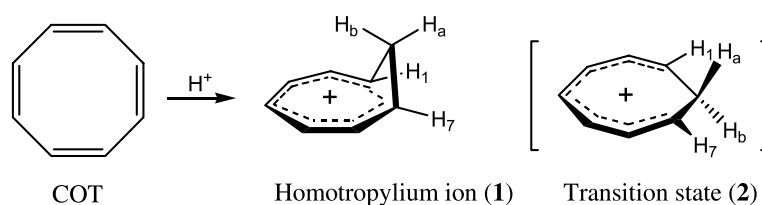
pp 2247–2257

Kevin W. Kells, Adela Ncube and J. Michael Chong\*

**Influence of the H/F replacement on the homoaromaticity of homotropylium ion: a GIAO/DFT theoretical study**

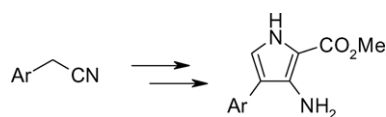
pp 2259–2265

Ibon Alkorta,\* José Elguero, Mirjana Eckert-Maksić and Zvonimir B. Maksić

**First synthesis of methyl 3-amino-4-(het)aryl-1H-pyrrole-2-carboxylates as useful scaffolds in medicinal chemistry**

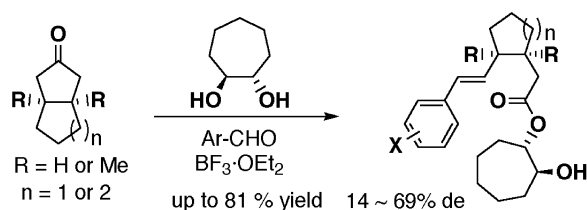
pp 2267–2270

Christophe Rochais, Vincent Lisowski, Patrick Dallemagne\* and Sylvain Rault

**Asymmetric ring cleavage reaction with a combination of optically active cycloalkane-1,2-diol and Lewis acid: application to formal synthesis of (-)-alloyohimbane and approach to construction of adjacent chiral quaternary centers**

pp 2271–2281

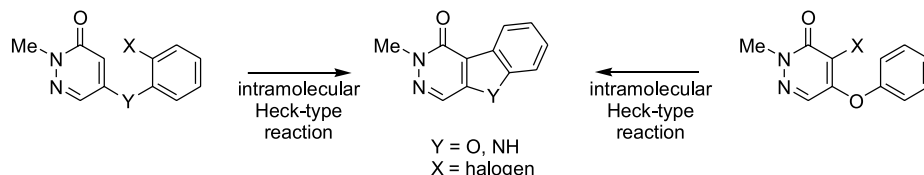
Masakazu Tanaka,\* Eiji Toyofuku, Yosuke Demizu, Osamu Yoshida, Koichi Nakazawa, Kiyoshi Sakai and Hiroshi Suemune\*



**Synthesis of 5*H*-pyridazino[4,5-*b*]indoles and their benzofurane analogues utilizing an intramolecular Heck-type reaction**

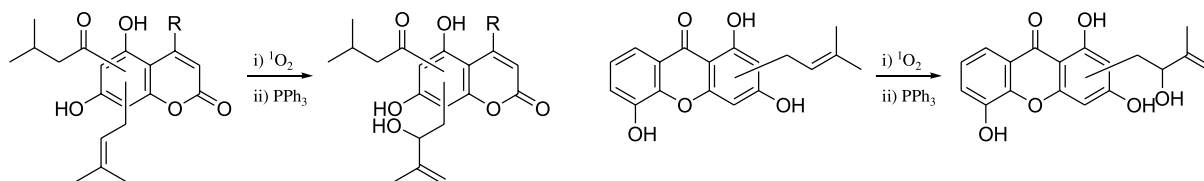
pp 2283–2291

Beáta Dajka-Halász, Katrien Monsieurs, Olivér Éliás, László Károlyházy, Pál Tapolcsányi, Bert U. W. Maes,\* Zsuzsanna Riedl, György Hajós, Roger A. Dommissé, Guy L. F. Lemièrre, Janez Košmrlj and Péter Mátyus\*


**Synthesis of 2-hydroxy-3-methylbut-3-enyl substituted coumarins and xanthenes as natural products. Application of the Schenck ene reaction of singlet oxygen with *ortho*-prenylphenol precursors**

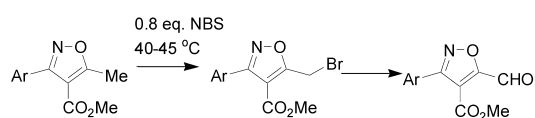
pp 2293–2300

Jean-Jacques Helesbeux, Olivier Duval,\* Caroline Dartiguelongue, Denis Séraphin, Jean-Michel Oger and Pascal Richomme


**Insights into the bromination of 3-aryl-5-methyl-isoxazole-4-carboxylate: synthesis of 3-aryl-5-bromomethyl-isoxazole-4-carboxylate as precursor to 3-aryl-5-formyl-isoxazole-4-carboxylate**

pp 2301–2310

Amrendra K. Roy, Rajaraman B. and Sanjay Batra\*

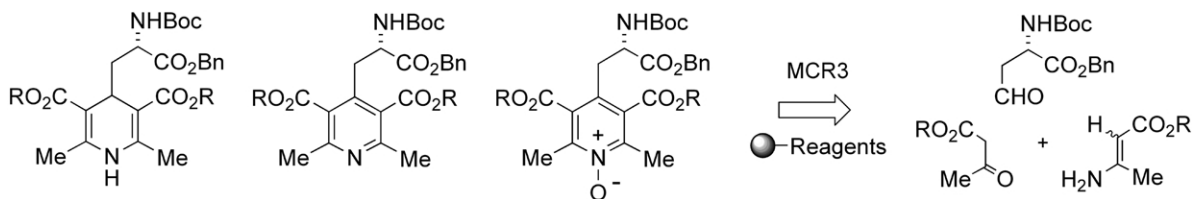


Results of the detailed investigations on the bromination of the methyl group of 3-aryl-5-methyl-isoxazole-4-carboxylate a precursor, to obtain 3-aryl-5-formyl-isoxazole-4-carboxylate, are described.

**Multicomponent Hantzsch cyclocondensation as a route to highly functionalized 2- and 4-dihydropyridylalanines, 2- and 4-pyridylalanines, and their *N*-oxides: preparation via a polymer-assisted solution-phase approach**

pp 2311–2326

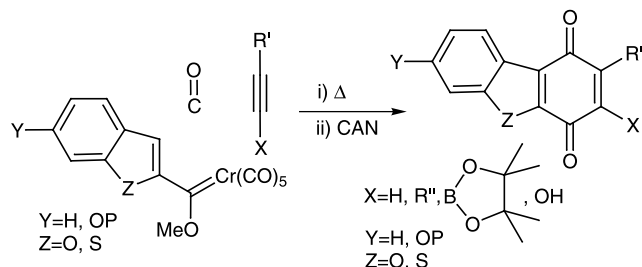
Alessandro Dondoni,\* Alessandro Massi, Erik Minghini and Valerio Bertolasi



**Synthesis of dibenzofuran-1,4-diones using the Dötz benzannulation**

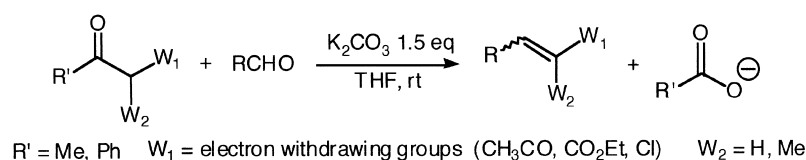
pp 2327–2335

James C. Anderson,\* Ross M. Denton, H. Gwen Hickin and Claire Wilson

**A convenient synthesis of olefins via deacylation reaction**

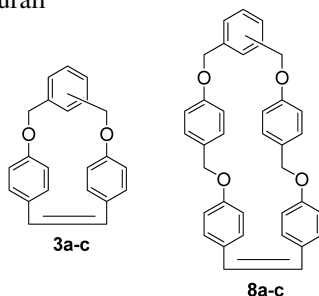
pp 2337–2349

Shogo Nakatsu, Aider T. Gubaidullin, Vakhid A. Mamedov and Sadao Tsuboi\*

**Dioxastilbenophanes—synthesis and charge transfer complexation studies**

pp 2351–2360

Perumal Rajakumar\* and Venghatraghavan Murali

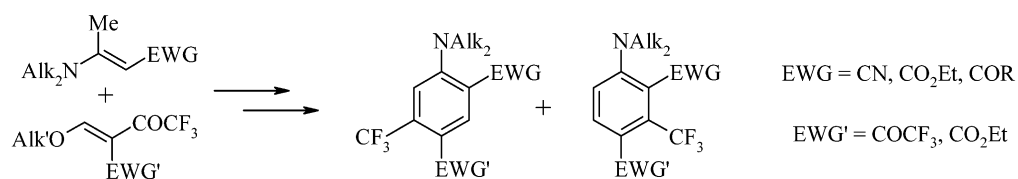


Stilbenophanes **3a–c** and **8a–c** were synthesized by intramolecular McMurry coupling and their charge transfer complexation behaviour with electron poor acceptors like TCNE, TCNQ and PQT were also studied.

**New approach to CF<sub>3</sub>-containing polysubstituted anilines: reaction of β-trifluoroacetylvinyl ethers with enamines**

pp 2361–2371

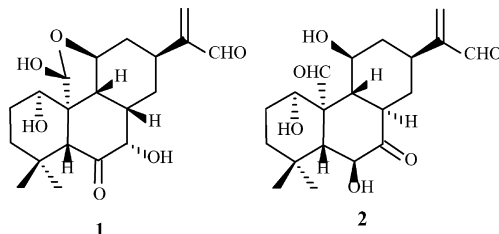
Dmitriy M. Volochnyuk, Alexander N. Kostyuk,\* Dmitriy A. Sibgatulin, Alexander N. Chernega, Alexander M. Pinchuk and Andrei A. Tolmachev



**Two novel tricyclic diterpenoids from *Isodon rubescens* var. *taihangensis***

pp 2373–2377

Quan-Bin Han, Ji-Xia Zhang, Ai-Hua Zhao, Han-Dong Sun,\* Yang Lu, Yun-Shan Wu and Qi-Tai Zheng

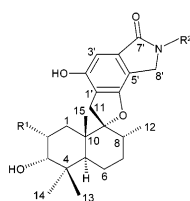


Two novel tricyclic diterpenoids rubescensins U (1) and V (2) were isolated from the leaves of *Isodon rubescens* var. *taihangensis*, whose structures were elucidated by 1D and 2D NMR spectra and single crystal X-ray analysis. A discussion of their biogenesis is described.

**Novel sesquiterpenoids as tyrosine kinase inhibitors produced by *Stachybotrys chortarum***

pp 2379–2385

María J. Vázquez,\* Alfonso Vega, Alfonso Rivera-Sagredo, María D. Jiménez-Alfaro, Emilio Díez and Juan A. Hueso-Rodríguez

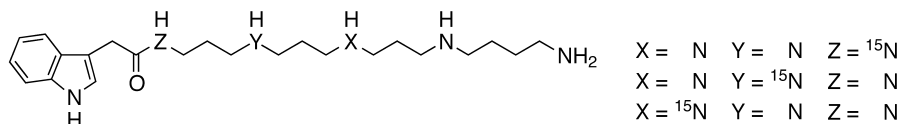


Compound	R <sup>1</sup>	R <sup>2</sup>
1	H	-CH(COOH)-CH <sub>2</sub> -CH <sub>2</sub> -COOH 9' 10' 11' 13'
2	H	-CH(COOH)-CH(OH)-CH <sub>3</sub>
3	OH	-CH <sub>2</sub> -CH <sub>2</sub> -CH <sub>2</sub> -COOH 9' 11' 13'
4	OH	-CH(COOH)-CH(CH <sub>3</sub> ) <sub>2</sub>
5	OH	-CH(COOH)-CH <sub>2</sub> -CH(CH <sub>3</sub> ) <sub>2</sub> 9' 13' 14'
6	OH	-CH(COOH)-CH(CH <sub>3</sub> )-CH <sub>2</sub> -CH <sub>3</sub>
7	OH	-CH(COOH)-CH <sub>2</sub> --15'

**Solid-phase synthesis of <sup>15</sup>N-labeled acylpentamines as reference compounds for the MS/MS investigation of spider toxins**

pp 2387–2391

Nikolay Manov, Manuel Tzouros, Laurent Bigler and Stefan Bienz\*

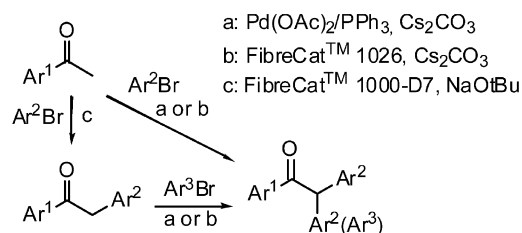


The stepwise construction of the polyamine framework on the solid support opens a way for selective incorporation of <sup>15</sup>N-labeled atoms.

**Towards a facile synthesis of triarylethanones: palladium-catalyzed arylation of ketone enolates under homogeneous and heterogeneous conditions**

pp 2393–2408

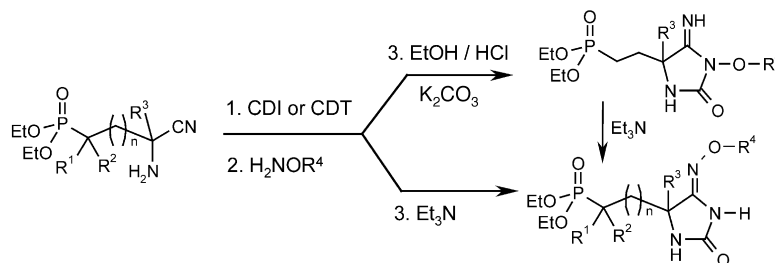
Fátima Churruca, Raul SanMartin,\* Mónica Carril, Imanol Tellitu and Esther Domínguez\*



### Synthesis and reactivity of 3-aralkoxy-4-imino-imidazolidin-2-ones: a novel class of 4-iminohydantoins

pp 2409–2416

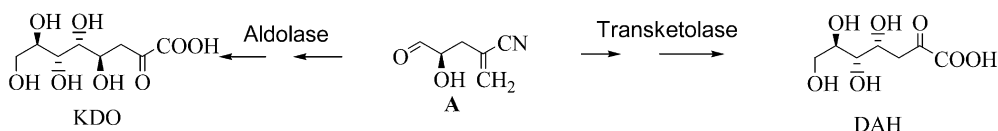
Thomas Kurz,\* Detlef Geffken and Khalid Widyan



### Transketolase and fructose-1,6-bis-phosphate aldolase, complementary tools for access to new ulosonic acid analogues

pp 2417–2425

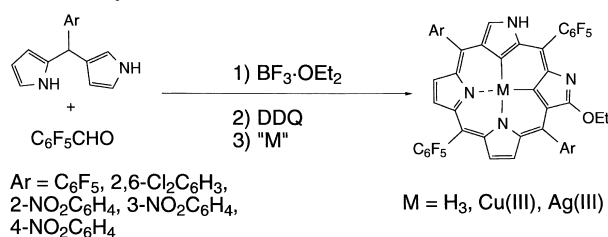
Dominique Crestia, Colette Demuynek and Jean Bolte\*



### Synthesis of A<sub>2</sub>B<sub>2</sub> type *cis*-doubly N-confused porphyrins from N-confused dipyrromethanes

pp 2427–2432

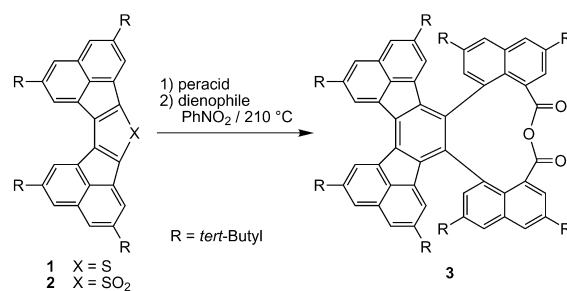
Hiromitsu Maeda, Atsuhiko Osuka and Hiroyuki Furuta\*



### Unexpected conversion of a polycyclic thiophene to a macrocyclic anhydride

pp 2433–2438

Kathleen V. Kilway,\* Keith A. Lindgren, Joseph W. Vincent, James A. Watson, Jr., Robert G. Clevenger, Robert D. Ingalls, Douglas M. Ho and Robert A. Pascal, Jr.

Anhydride **3** is unexpectedly formed upon oxidation and heating of thiophene **1**.

**OTHER CONTENTS**

**Calendar**  
**Contributors to this issue**  
**Instructions to contributors**

**pp I–IX**  
**p XI**  
**pp XIII–XVI**

\*Corresponding author

**COVER**

Carbamate derivatives of  $\alpha$ -oxyorganolithiums can be trapped with electrophiles or allowed to undergo a 1,2-acyl migration to form  $\alpha$ -hydroxyamides. Carbamate derivatives of  $\alpha$ -aminoorganolithiums do not undergo a similar migration but, somewhat unexpectedly, urea derivatives do. Details of this remarkable 1,2-N $\rightarrow$ C acyl migration can be found in *Tetrahedron* **2004**, *60*, 2247–2257.

© 2004 J. M. Chong. Published by Elsevier Ltd.



Full text of this journal is available, on-line from **ScienceDirect**. Visit [www.sciencedirect.com](http://www.sciencedirect.com) for more information.

---

**CONTENTS**  
**direct**

This journal is part of **ContentsDirect**, the *free* alerting service which sends tables of contents by e-mail for Elsevier books and journals. You can register for **ContentsDirect** online at: <http://contentsdirect.elsevier.com>

---

Indexed/Abstracted in: AGRICOLA, Beilstein, BIOSIS Previews, CAB Abstracts, Chemical Abstracts, Chemical Engineering and Biotechnology Abstracts, Current Biotechnology Abstracts, Current Contents: Life Sciences, Current Contents: Physical, Chemical and Earth Sciences, Current Contents Search, Derwent Drug File, Ei Compendex, EMBASE/Excerpta Medica, Medline, PASCAL, Research Alert, Science Citation Index, SciSearch



ISSN 0040-4020