

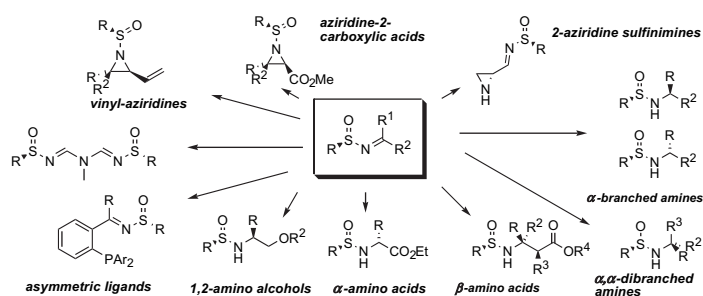
Contents

REPORT

Chiral non-racemic sulfinimines: versatile reagents for asymmetric synthesis

Daniel Morton and Robert A. Stockman\*

pp 8869–8905

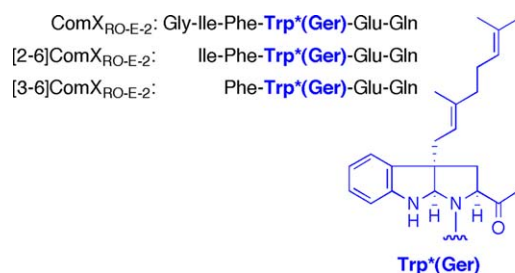


ARTICLES

Chemical synthesis of ComX pheromone and related peptides containing isoprenoidal tryptophan residues

Masahiro Okada,\* Isao Sato, Soo Jeong Cho, David Dubnau and Youji Sakagami\*

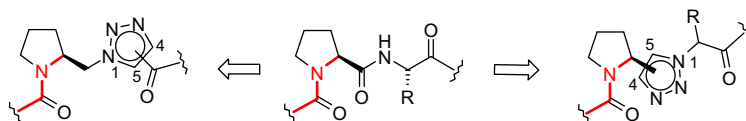
pp 8907–8918



Triazolopeptides: chirospecific synthesis and *cis/trans* prolyl ratios of structural isomers

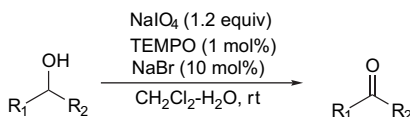
Andreas Paul, Holger Bittermann and Peter Gmeiner\*

pp 8919–8927



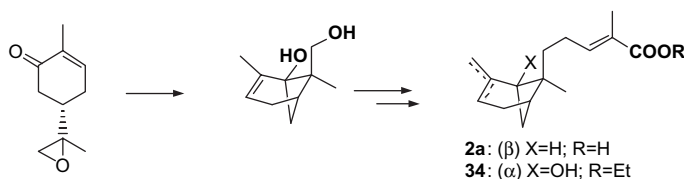
### Mild and selective oxidation of alcohols to aldehydes and ketones using NaIO<sub>4</sub>/TEMPO/NaBr system pp 8928–8932

Ming Lei, Rui-Jun Hu and Yan-Guang Wang\*



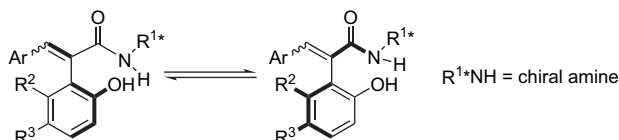
### Ti(III)-promoted cyclizations. Application to the synthesis of (*E*)-endo-bergamoten-12-oic acids. Moth oviposition stimulants isolated from *Lycopersicon hirsutum* pp 8933–8942

Francisco A. Bermejo,\* Alfonso Fernández Mateos,\* Andrés Marcos Escribano, Rodrigo Martín Lago, Lydia Mateos Burón, María Rodríguez López and Rosa Rubio González



### 2-(2-Hydroxyaryl)cinnamic amides: a new class of axially chiral molecules pp 8943–8951

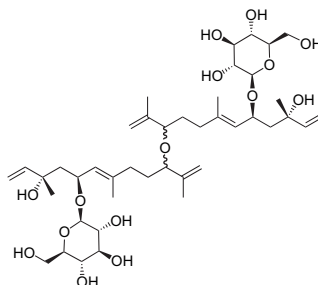
Chiara Marelli, Chiara Monti, Simona Galli, Norberto Masciocchi and Umberto Piarelli\*



### Unusual sesquiterpene glucosides from *Amaranthus retroflexus* pp 8952–8958

Antonio Fiorentino,\* Marina DellaGreca, Brigida D'Abrosca, Annunziata Golino, Severina Pacifico, Angelina Izzo and Pietro Monaco

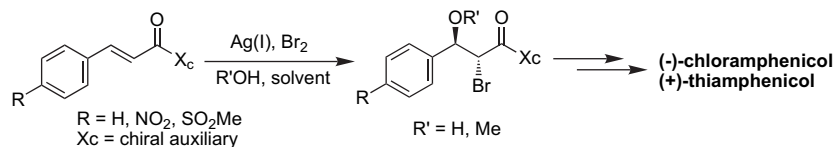
Four new glucosides have been isolated from the weed *Amaranthus retroflexus*. Structural elucidation by 1D and 2D NMR spectroscopy is discussed.



**Stereoselective syntheses of (–)-chloramphenicol and (+)-thiamphenicol**

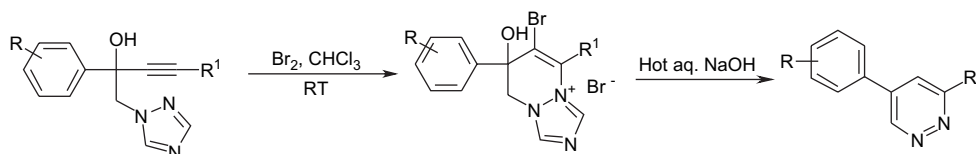
pp 8959–8965

Saumen Hajra,\* Ananta Karmakar, Tapan Maji and Amiya Kumar Medda

**A novel conversion of acetylenic 1,2,4-triazoles into 3-alkyl-5-arylpyridazines**

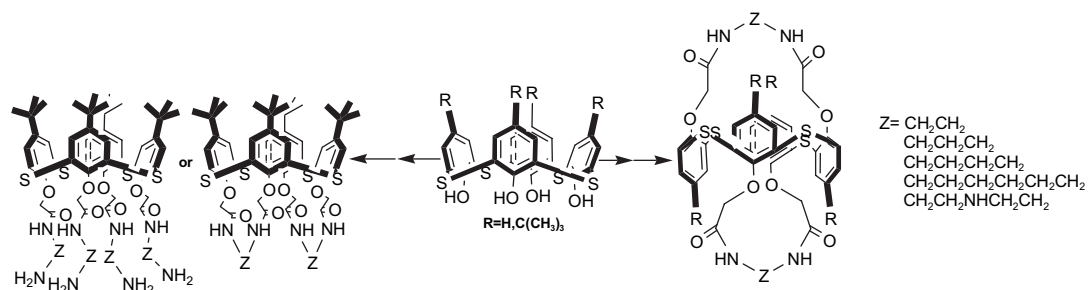
pp 8966–8973

Patrick J. Crowley,\* Sally E. Russell and Laurence G. Reynolds

**Synthesis of conformationally diverse tetrathiacalix[4]arene(amido)crowns and tetrathiacalix[4]arene amides with pendant amine functions**

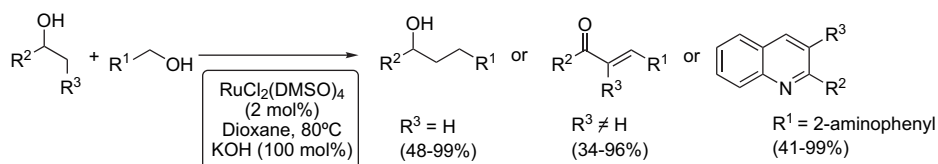
pp 8974–8981

Ananya Chakrabarti, H. M. Chawla,\* N. Pant,\* Suneel Pratap Singh and S. Upreti

**RuCl<sub>2</sub>(DMSO)<sub>4</sub> catalyzes the β-alkylation of secondary alcohols with primary alcohols through a hydrogen autotransfer process**

pp 8982–8987

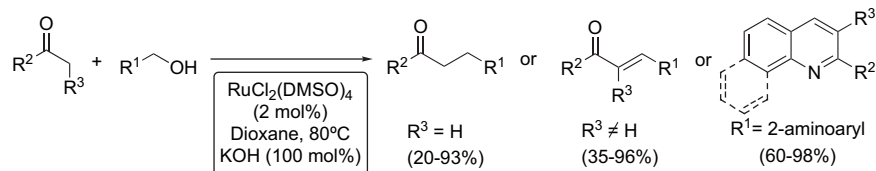
Ricardo Martínez, Diego J. Ramón\* and Miguel Yus\*



**Easy  $\alpha$ -alkylation of ketones with alcohols through a hydrogen autotransfer process catalyzed by  $\text{RuCl}_2(\text{DMSO})_4$** 

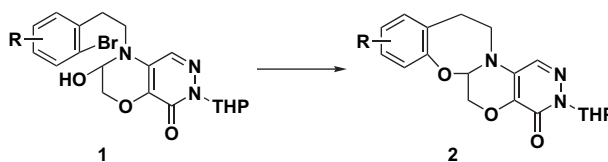
pp 8988–9001

Ricardo Martínez, Diego J. Ramón\* and Miguel Yus\*


**Novel formation of 1,3-oxazepine heterocycles via palladium-catalyzed intramolecular coupling reaction**

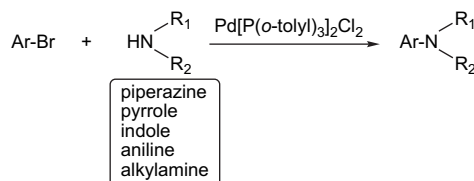
pp 9002–9009

Chen Ma,\* Shao-Jie Liu, Liang Xin, J. R. Falck and Dong-Soo Shin\*


**Preparation of *N*-arylpiperazines and other *N*-aryl compounds from aryl bromides as scaffolds of bioactive compounds**

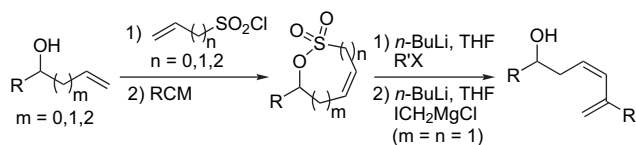
pp 9010–9016

M. Romero, Y. Harrak, J. Basset, L. Ginet, P. Constans and M. D. Pujol\*


**Reactivity of unsaturated sultones synthesized from unsaturated alcohols by ring-closing metathesis. Application to the racemic synthesis of the originally proposed structure of mycothiazole**

pp 9017–9037

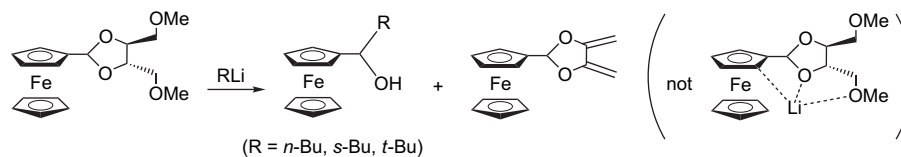
Alexandre Le Flohic, Christophe Meyer\* and Janine Cossy\*



### Unexpected reactions of ferrocene acetal derived from tartaric acid with alkyl lithium: competition between proton abstraction and nucleophilic attack

pp 9038–9042

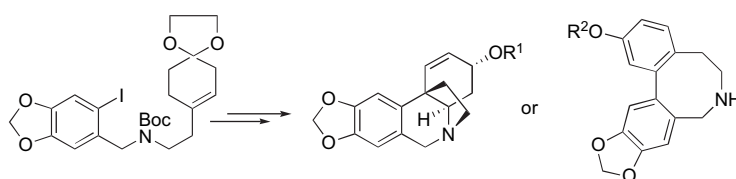
Wanbin Zhang,\* Fang Xie, Hidefumi Yoshinaga, Toshiyuki Kida, Yohji Nakatsuji and Isao Ikeda\*



### Total syntheses of crinine and related alkaloids

pp 9043–9048

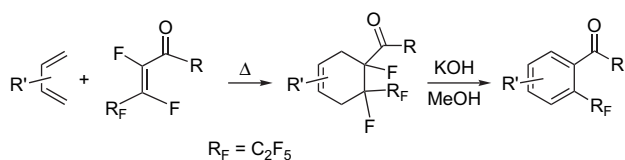
Claire Bru and Catherine Guillou\*



### Synthesis of *ortho*-perfluoroalkyl phenones from hemifluorinated enones as key building blocks

pp 9049–9053

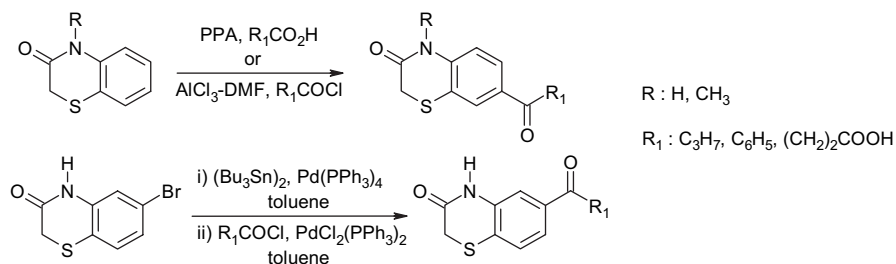
Frédéric Chanteau, Richard Plantier-Royon,\* Günter Haufe and Charles Portella\*



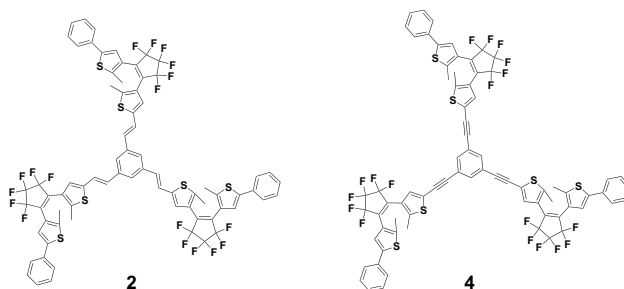
### Synthesis of 6- and 7-acyl-4*H*-benzothiazin-3-ones

pp 9054–9058

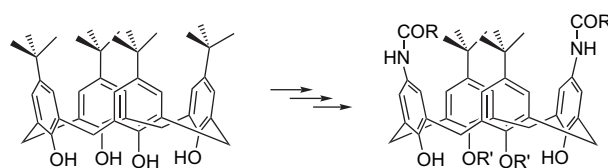
Pascal Carato,\* Ziaeddine Moussavi, Ahmed Sabaouni, Nicolas Lebegue, Pascal Berthelot and Saïd Yous



**Synthesis and photochromic reactivity of diarylethene trimers bridged by ethenyl and ethynyl unit** pp 9059–9065  
 Hyunbong Choi, Il Jung, Kyu Ho Song, Kihyung Song, Dong-Soo Shin, Sang Ook Kang\* and Jaejung Ko\*

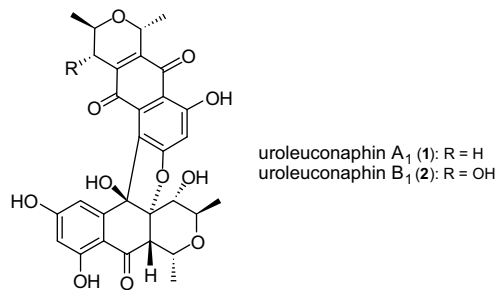


**Wide- and narrow-rim functionalised calix[4]arenes: synthesis and characterisation** pp 9066–9071  
 Bernadette S. Creaven, Tammy L. Gernon, John McGinley,\* Ann-Marie Moore and Hans Toftlund



Functionalisation of calix[4]arene was carried out such that metal complexation could occur at both the wide and narrow rims, a rare occurrence in calixarene chemistry.


**Uroleuconaphins A<sub>1</sub> and B<sub>1</sub>, two red pigments from the aphid *Uroleucon nigrotuberculatum* (Olive)** pp 9072–9076  
 Mitsuyo Horikawa,\* Toshihiro Hashimoto, Yoshinori Asakawa, Shigeru Takaoka, Masami Tanaka, Hiroto Kaku, Takeshi Nishii, Kentaro Yamaguchi, Hyuma Masu, Masaki Kawase, Shinya Suzuki, Masao Sato and Tetsuto Tsunoda\*



**OTHER CONTENTS**

<b>Tetrahedron reports on organic chemistry</b>	<b>pp I–XIX</b>
<b>Tetrahedron Perspectives</b>	<b>p XX</b>
<b>Tetrahedron reports on organic chemistry order form</b>	<b>p XXI</b>
<b>Tetrahedron reports on organic chemistry author index</b>	<b>pp XXII–XXIX</b>

\*Corresponding author

 Supplementary data available via ScienceDirect

**COVER**

Prolyl *cis/trans* isomerisation plays a crucial role in various biological processes. Employing a divergent synthetic pathway, four different subtypes of triazolopeptides were obtained and examined by means of NMR and IR spectroscopy. Depending on the orientation and the mode of insertion of the triazole moiety, the building blocks allow a gradual adjustment of the prolyl *cis/trans* ratio, thus offering a molecular toolkit for peptide mimetic research. *Tetrahedron* **2006**, *62*, 8919–8927.

© 2006 P. Gmeiner. 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.

---

Abstracted/indexed in: AGRICOLA, Beilstein, BIOSIS Previews, CAB Abstracts, Chemical 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. Also covered in the abstract and citation database SCOPUS®. Full text available on ScienceDirect®

---



ELSEVIER

ISSN 0040-4020