



Tetrahedron Vol. 66, Issue 29, 2010

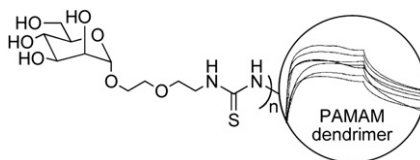
Contents

ARTICLES

Inhibition binding studies of glycodendrimer/lectin interactions using surface plasmon resonance

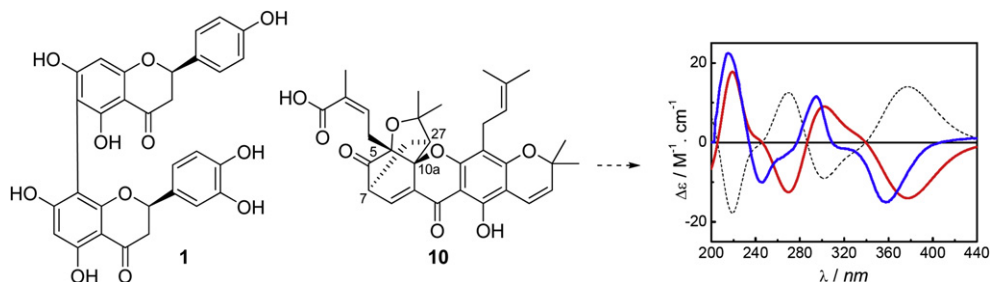
pp 5305–5310

Kristian H. Schlick, Mary J. Cloninger*

**Proteasome-inhibitory and cytotoxic constituents of *Garcinia lateriflora*: absolute configuration of caged xanthenes**

pp 5311–5320

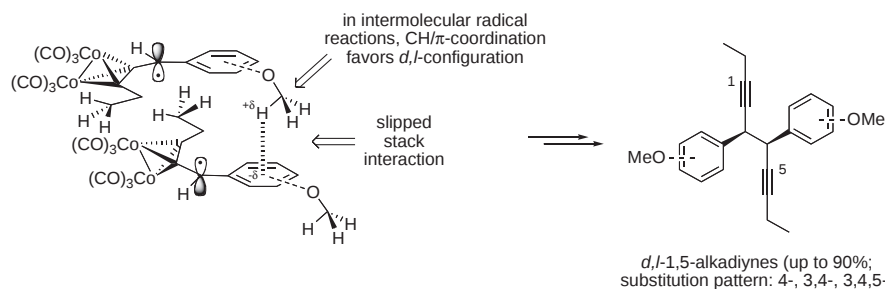
Yulin Ren, Daniel D. Lantvit, Esperanza J. Carcache de Blanco, Leonardus B.S. Kardono, Soedarsono Riswan, Heebyung Chai, Charles E. Cottrell, Norman R. Farnsworth, Steven M. Swanson, Yuanqing Ding, Xing-Cong Li, Jannie P.J. Marais, Daneel Ferreira, A. Douglas Kinghorn*



Inter- and intramolecular isocarbon couplings of cobalt-complexed propargyl radicals: challenging the consensus

pp 5321–5328

Gagik G. Melikyan*, Ryan Spencer

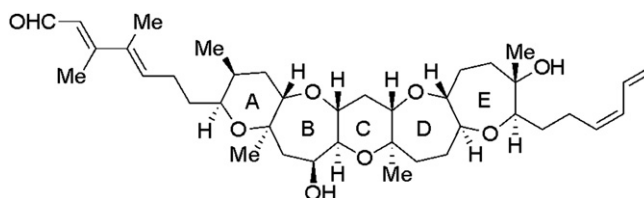


Due to the sterics and CH/π coordination, intermolecular coupling reactions of $\text{Co}_2(\text{CO})_6$ -complexed, γ -ethyl propargyl radicals occurred with higher *DL*-diastereoselectivity than intramolecular cyclizations of isocarbon analogues ($d_{\text{inter}} - d_{\text{intra}} \leq 52\%$).

**Total synthesis of brevenal**

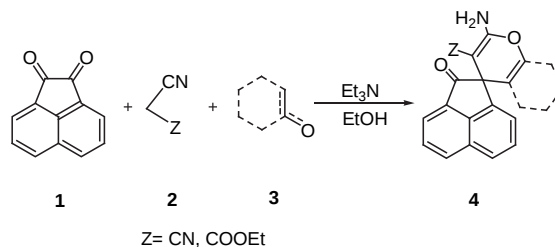
pp 5329–5344

Hiroyoshi Takamura, Yuji Yamagami, Takayuki Kishi, Shigetoshi Kikuchi, Yuichi Nakamura, Isao Kadota*, Yoshinori Yamamoto

**One-pot three-component synthesis of the spiroacenaphthylene derivatives**

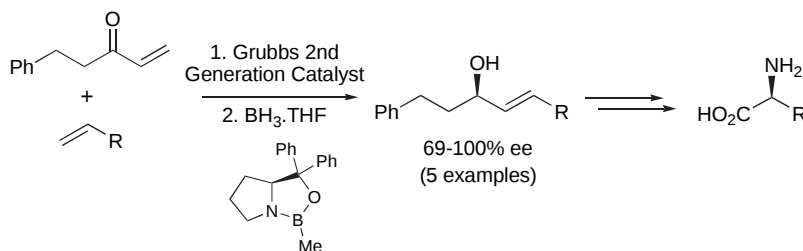
pp 5345–5348

Mina Saeedi, Majid M. Heravi*, Yahya S. Beheshtiha, Hossein A. Oskooie

**Asymmetric synthesis of allylic secondary alcohols: a new general approach for the preparation of α -amino acids**

pp 5349–5356

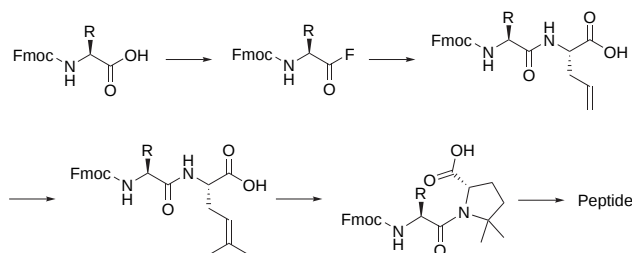
Lorna J. Drummond, Andrew Sutherland*



5,5-Dimethylproline dipeptides: an acid-stable class of pseudoproline

pp 5357–5366

Bianca J. van Lierop, W. Roy Jackson, Andrea J. Robinson*

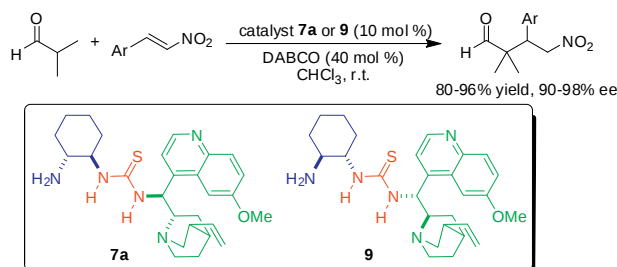


An acid-stable class of *cisoidal* amide bond-promoting 5,5-dimethyl-L-proline dipeptides has been developed for direct insertion into linear peptide sequences.

**Highly enantioselective Michael addition of aldehydes to nitroolefins catalyzed by primary amine thiourea organocatalysts**

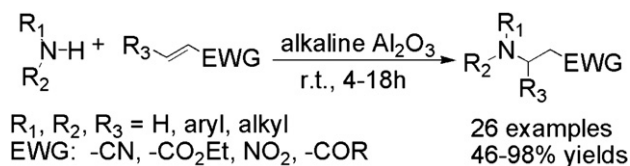
pp 5367–5372

Jia-Rong Chen*, You-Quan Zou, Liang Fu, Fan Ren, Fen Tan, Wen-Jing Xiao*

**An effective aza-Michael addition of aromatic amines to electron-deficient alkenes in alkaline Al₂O₃**

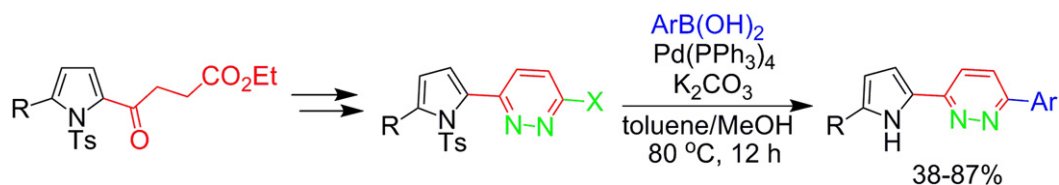
pp 5373–5377

Xin Ai, Xin Wang*, Jin-ming Liu, Ze-mei Ge, Tie-ming Cheng, Run-tao Li*

**A new method for the synthesis of 3-aryl-6-(2-pyrrolyl)pyridazines**

pp 5378–5383

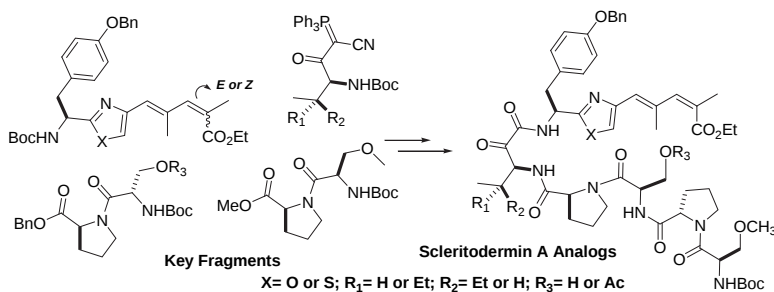
Chuanjun Song*, Peng Zhao, Yan Liu, Hui Liu, Wenjia Li, Shuai Shi, Junbiao Chang*



Preparation and biological evaluation of key fragments and open analogs of scleritodermin A

pp 5384–5395

Diver Sellanes, Francisco Campot, Ivana Núñez, Gerardo Lin, Pablo Espósito, Sylvia Dematteis, Jenny Saldaña, Laura Domínguez, Eduardo Manta, Gloria Serra*

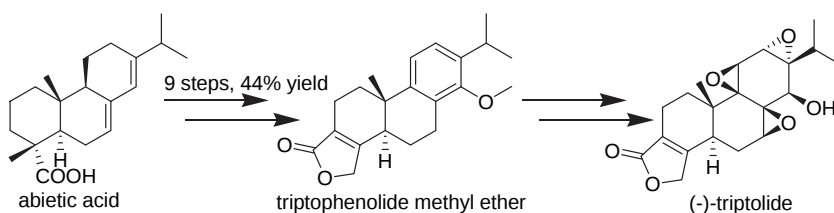


The synthesis of different key fragments of scleritodermin A, their assembly to obtain open analogs, and biological evaluation of the obtained products as cytotoxic and anthelmintic were performed.

**Efficient synthesis of the key intermediate triptophenolide methyl ether for the synthesis of (–)-triptolide**

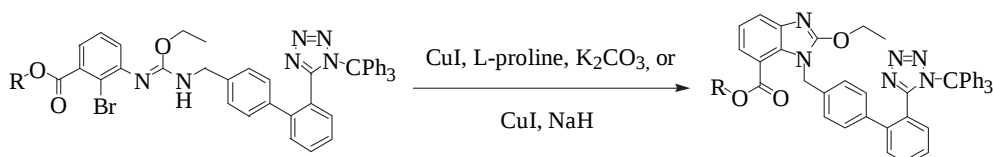
pp 5396–5401

Bing Zhou, Xiaomei Li, Huijin Feng, Yuanchao Li*

**A novel and practical synthesis of substituted 2-ethoxy benzimidazole: candesartan cilexetil**

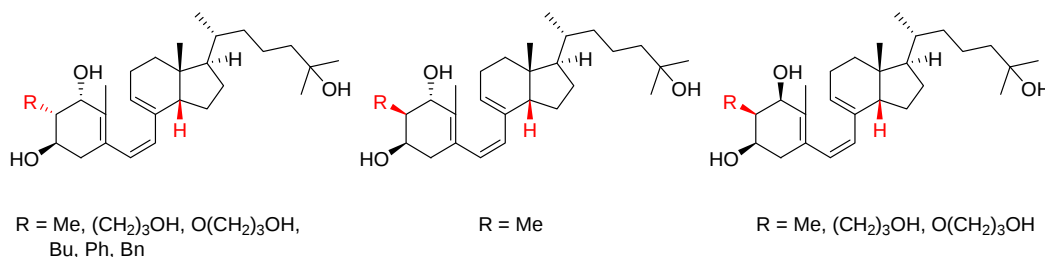
pp 5402–5406

Ping Wang, Guo-jun Zheng, Ya-ping Wang, Xiang-jing Wang, Yan Li, Wen-sheng Xiang*

**Synthesis of 2 α - and 2 β -substituted-14-*epi*-previtamin D₃ and their genomic activity**

pp 5407–5423

Daisuke Sawada, Tomoyuki Katayama, Yuya Tsukuda, Nozomi Saito, Hiroshi Saito, Ken-ichiro Takagi, Eiji Ochiai, Seiichi Ishizuka, Kazuya Takenouchi, Atsushi Kittaka*

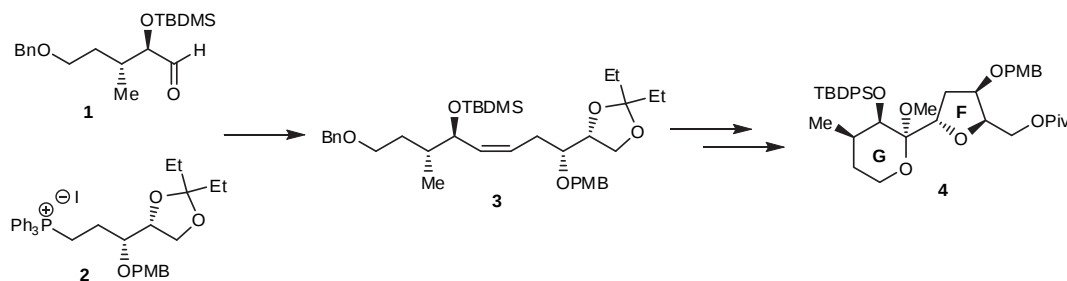


2-Substituted analogs of 14-*epi*-1,25-dihydroxyvitamin D₃ were synthesized and their preliminary biological activity was evaluated.

Synthesis of the FG ring fragment of pectenotoxins 1–9

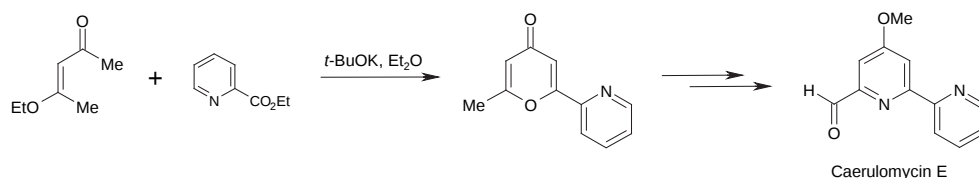
pp 5424–5431

Amanda M. Heapy, Margaret A. Brimble*

**Facile synthesis of caerulomycin E by the formation of 2,2'-bipyridine core via a 2-pyridyl substituted 4H-pyran-4-one. Formal synthesis of caerulomycin A**

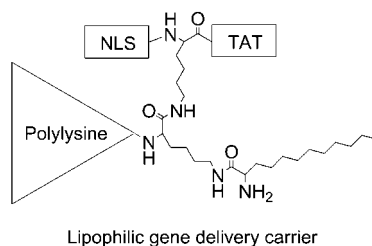
pp 5432–5434

Denis N. Bobrov*, Vladimir I. Tyvorskii

**The synthesis and characterization of lipophilic peptide-based carriers for gene delivery**

pp 5435–5441

Daniel J. Coles, Anna Esposito, Hui Ting Chuah, Istvan Toth*



Lipophilic gene delivery carrier

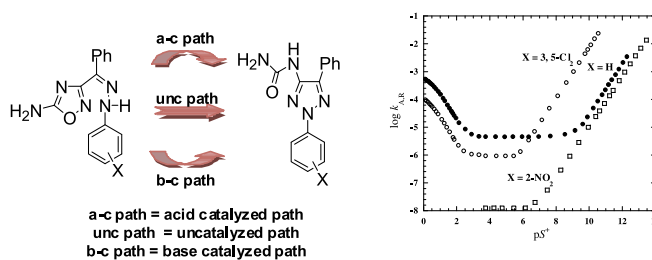


The synthesis and physico-chemical examination of lipophilic non-viral gene delivery carriers is reported.

On the use of multi-parameter free energy relationships: the rearrangement of (Z)-arylhydrazones of 5-amino-3-benzoyl-1,2,4-oxadiazole into (2-aryl-5-phenyl-2H-1,2,3-triazol-4-yl)ureas

pp 5442–5450

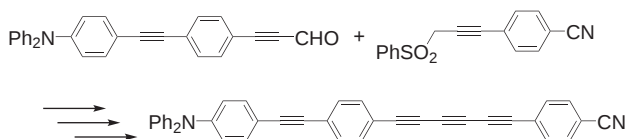
Francesca D'Anna, Vincenzo Frenna, Camilla Zaira Lanza, Gabriella Macaluso, Salvatore Marullo, Domenico Spinelli*, Raffaella Spisani, Giovanni Petrillo



Synthesis and spectroscopic study of phenylene–(poly)ethynylenes substituted by amino or amino/cyano groups at terminal(s): electronic effect of cyano group on charge-transfer excitation of acetylenic π -systems

pp 5479–5485

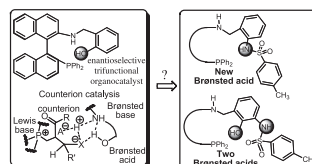
Jing-Kun Fang, De-Lie An*, Kan Wakamatsu, Takeharu Ishikawa, Tetsuo Iwanaga, Shinji Toyota, Shin-ichi Akita, Daisuke Matsuo, Akihiro Orita*, Junzo Otera*



Cooperativity in the counterion catalysis of Morita/Baylis/Hillman reactions promoted by enantioselective trifunctional organocatalysts

pp 5486–5491

Christopher Anstiss, Fei Liu*



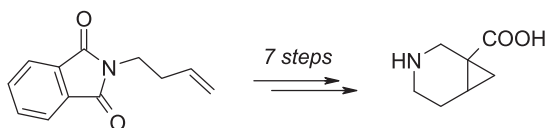
New trifunctional organocatalysts with a NHTs Brønsted acid were prepared and tested in their ability to promote the counterion catalysis of generic and aza-Morita/Baylis/Hillman reactions. The cooperativity between the counterion and the NHTs Brønsted acid of the trifunctional catalyst was required for good enantioselectivity and rate enhancement. Better enantioselectivity was observed for aza-MBH reactions at relatively low catalyst loading (2–5 mol %) under facile conditions.



Synthesis of 3-azabicyclo[4.1.0]heptane-1-carboxylic acid

pp 5492–5497

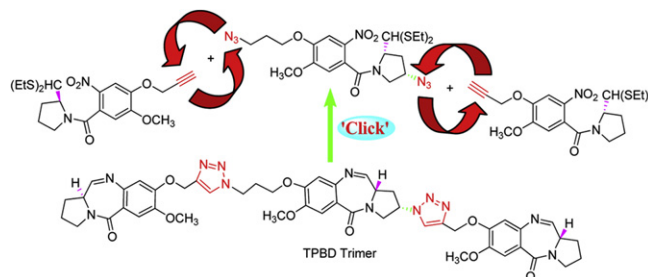
Carmela Napolitano, Manuela Borriello, Francesca Cardullo*, Daniele Donati, Alfredo Paio, Stefano Manfredini*



Synthesis of bis-1,2,3-triazolo-bridged unsymmetrical pyrrolobenzodiazepine trimers via 'click' chemistry and their DNA-binding studies

pp 5498–5506

Ahmed Kamal*, Nagula Shankaraiah, Ch. Ratna Reddy, S. Prabhakar, Nagula Markandeya, Hemant Kumar Srivastava, G. Narahari Sastry*



*Corresponding author

 Supplementary data available via ScienceDirect



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