



ELSEVIER

Tetrahedron

Tetrahedron Vol. 63, No. 39, 2007

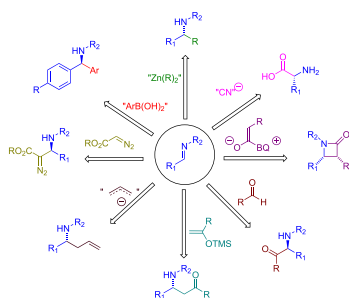
Contents

REPORT

Catalytic, asymmetric alkylation of imines

Dana Ferraris

pp 9581–9597

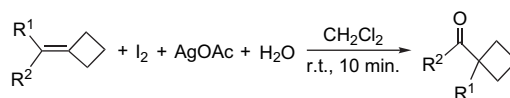


ARTICLES

Reactions of methylenecyclobutanes with silver acetate and iodine

Min Jiang, Le-Ping Liu and Min Shi*

pp 9599–9604

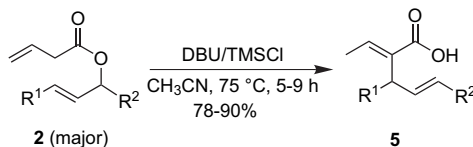
(R¹, R² = aromatic group)(R¹ = aromatic group, R² = alkyl group)

The rearrangement reaction of methylenecyclobutanes **1** in the presence of silver acetate and iodine proceeded smoothly to give the corresponding aryl-(1-arylcyclobutyl)methanones **2** in moderate to good yields within short reaction time under mild conditions.

DBU-mediated Ireland–Claisen rearrangement of allyl alk-3-enoates: an efficient synthesis of 2-ethylidene- γ,δ -unsaturated carboxylic acids

Yunxia Li, Andreas Goeke, Ruiyao Wang, Quanrui Wang* and Georg Fráter*

pp 9605–9613

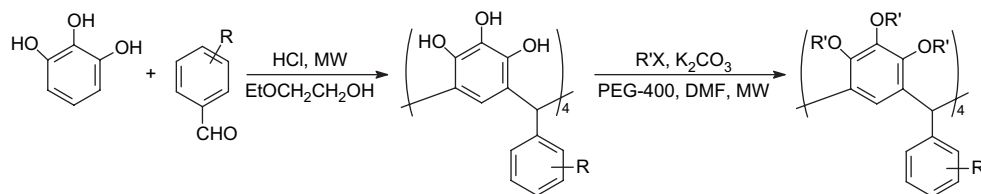


Ireland–Claisen rearrangement, triggered by silyl enolization of allylic but-3-enoates **2**, was achieved using DBU as the base in the presence of an excess amount of TMSCl to provide 2-ethylidene- γ,δ -unsaturated carboxylic acids **5** in good yields.

Microwave irradiation assisted synthesis, alkylation reaction, and configuration analysis of aryl pyrogallol[4]arenes

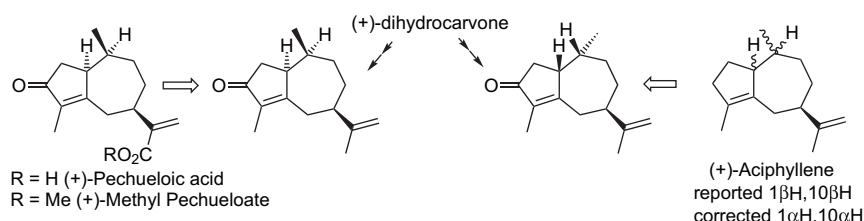
pp 9614–9620

Chaoguo Yan,* Weifeng Chen, Jiao Chen, Tiantian Jiang and Yong Yao


Synthesis of (+)-pechueloic acid and (+)-aciphyllene. Revision of the structure of (+)-aciphyllene

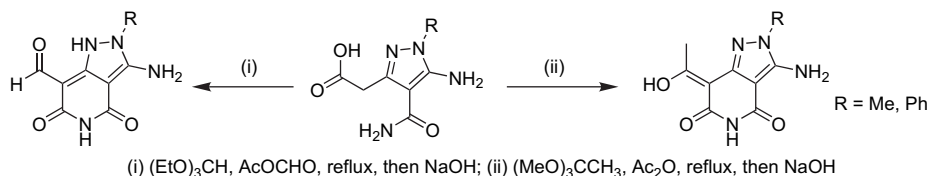
pp 9621–9626

Gonzalo Blay, Begoña Garcia, Eva Molina and José R. Pedro*


Divergent cyclisations of 2-(5-amino-4-carbamoyl-1H-pyrazol-3-yl)acetic acids with formyl and acetyl electrophiles

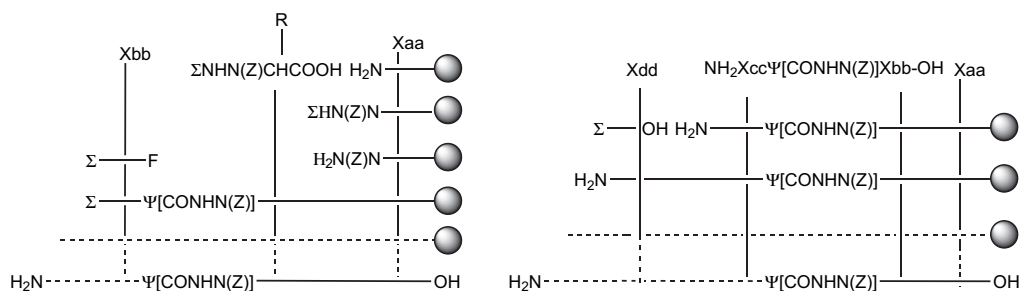
pp 9627–9634

Lynette A. Smyth, Thomas P. Matthews, Peter N. Horton, Michael. B. Hursthouse and Ian Collins*


Solid-phase synthesis of hydrazinopeptides in Boc and Fmoc strategies monitored by HR-MAS NMR

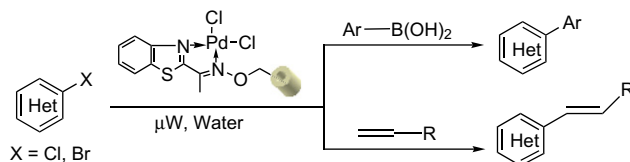
pp 9635–9641

Isabelle Bouillon, Régis Vanderesse, Nicolas Brosse, Olivier Fabre and Brigitte Jamart-Grégoire*

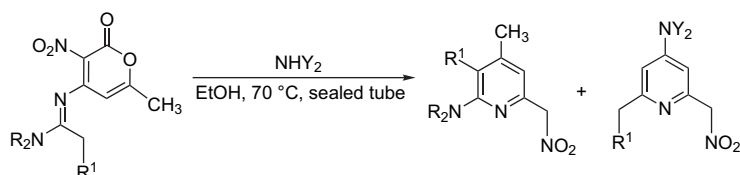


Microwave-assisted Suzuki–Miyaura and Heck–Mizoroki cross-coupling reactions of aryl chlorides and bromides in water using stable benzothiazole-based palladium(II) precatalysts pp 9642–9651

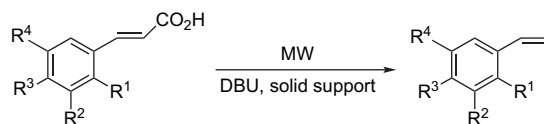
Kamal M. Dawood


Synthesis of 4-dialkylaminopyridine derivatives through ring-rearrangement of 3-nitro-2H-pyran-2-one acetamidines pp 9652–9662

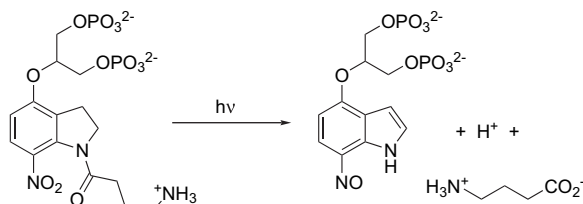
Vittorio Bertacche, Alessandro Contini, Emanuela Erba, Donatella Nava and Pasqualina Trimarco*


Obtaining 4-vinylphenols by decarboxylation of natural 4-hydroxycinnamic acids under microwave irradiation pp 9663–9667

Roberta Bernini,* Enrico Mincione, Maurizio Barontini, Gianfranco Provenzano and Leonardo Setti


Synthesis of an anionically substituted nitroindoline-caged GABA reagent that has reduced affinity for GABA receptors pp 9668–9676

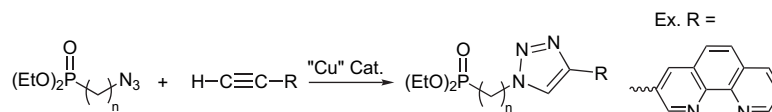
George Papageorgiou and John E. T. Corrie*



Synthesis of triazolyl-alkylphosphonate starting from ω -azidoalkylphosphonates or ω -alkynylphosphonates

pp 9677–9684

Lise Delain-Bioton, Didier Villemin,* Jean-François Lohier, Jana Sopkova and Paul-Alain Jaffrès*

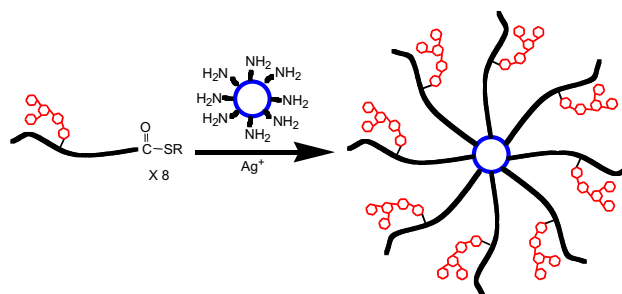


Synthesis of glycopeptide dendrimer by a convergent method

pp 9685–9690

Chinatsu Ozawa, Hironobu Hojo,* Yuko Nakahara, Hidekazu Katayama, Kazuki Nabeshima, Toshiaki Akahane and Yoshiaki Nakahara*

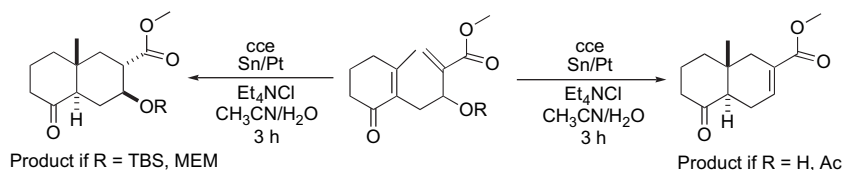
Glycopeptide thioester was prepared and condensed with dendrimer core having 8 amino groups by the thioester method. A glycopeptide dendrimer carrying *N*-linked core pentasaccharide of about 30 kDa was successfully synthesized.



Electrohydrocyclization of alkoxy tether substituted mixed enone/enoate and bisenone systems: retention versus elimination

pp 9691–9698

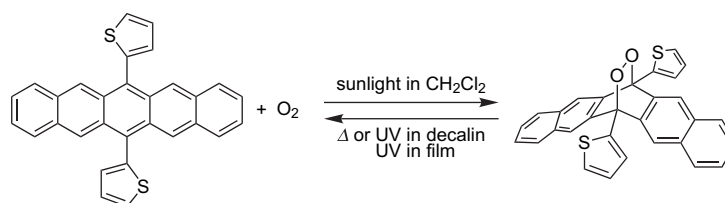
Renuka Manchanayakage, Duncan Omune, Christopher Hayes and Scott T. Handy*



Photooxidation and reproduction of pentacene derivatives substituted by aromatic groups

pp 9699–9704

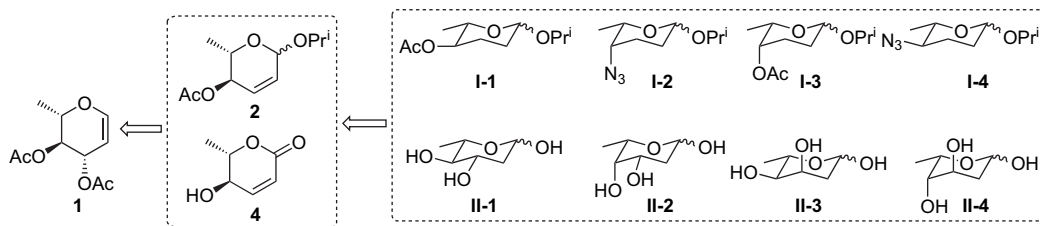
Katsuhiko Ono,* Hiroaki Totani, Takao Hiei, Akihiro Yoshino, Katsuhiko Saito, Katsuya Eguchi, Masaaki Tomura, Jun-ichi Nishida and Yoshiro Yamashita



A divergent strategy for constructing a sugar library containing 2,6-dideoxy sugars and uncommon sugars with 4-substitution

pp 9705–9711

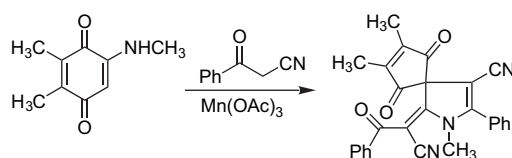
Guisheng Zhang,* Lei Shi, Qingfeng Liu, Jingmei Wang, Lu Li and Xiaobing Liu



A novel oxidative free radical reaction between 2-amino-1,4-benzoquinones and benzoylacetonitriles

pp 9712–9717

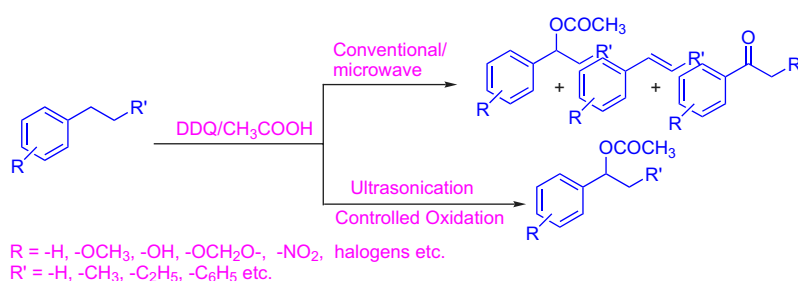
Che-Ping Chuang* and An-I. Tsai



DDQ catalyzed benzylic acetoxylation of arylalkanes: a case of exquisitely controlled oxidation under sonochemical activation

pp 9718–9723

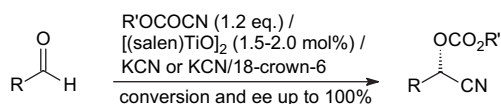
Vinod Kumar, Abhishek Sharma, Meenakshi Sharma, Upendra K. Sharma and Arun K. Sinha*



Enantioselective and diastereoselective syntheses of cyanohydrin carbonates

pp 9724–9740

Yuri N. Belokon', William Clegg, Ross W. Harrington, Eisuke Ishibashi, Hiroshi Nomura and Michael North*

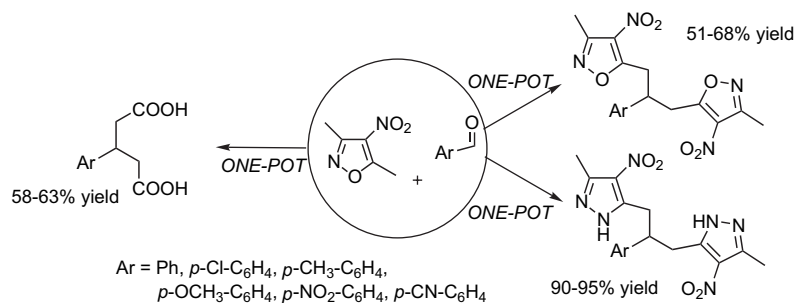


In the presence of potassium cyanide or the potassium cyanide/18-crown-6 complex, a titanium(salen) complex catalyses the enantio- or diastereoselective addition of a variety of achiral and chiral cyanofornates to aldehydes. The kinetics of the process depend upon the amount of potassium cyanide/18-crown-6 complex used.

Three multicomponent reactions of 3,5-dimethyl-4-nitroisoxazole

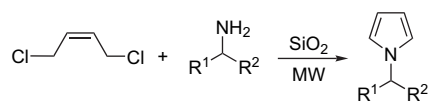
pp 9741–9745

Mauro F. A. Adamo,* Vivekananda R. Konda, Donato Donati, Piero Sarti-Fantoni and Tomas Torroba

**New and clean synthesis of *N*-substituted pyrroles under microwave irradiation**

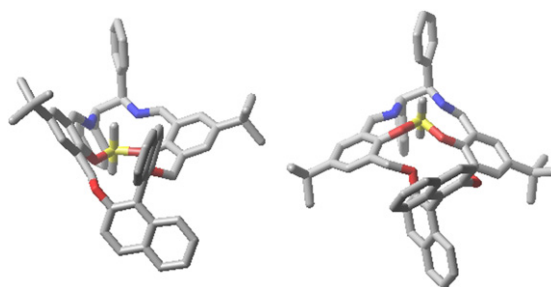
pp 9746–9750

Fery Aydogan,* Mehmet Basarir, Cigdem Yolacan and Ayhan S. Demir

**Synthesis and conformational aspects of 20- and 40-membered macrocyclic mono and dinuclear uranyl complexes incorporating salen and (*R*)-BINOL units**

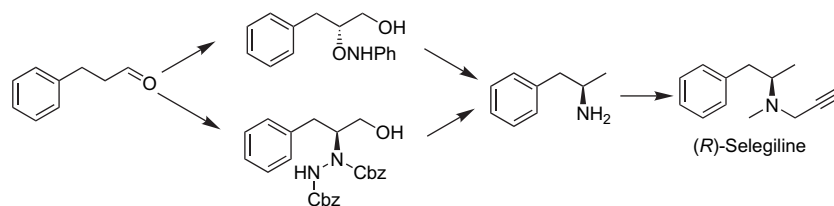
pp 9751–9757

Maria E. Amato, Francesco P. Ballistreri, Andrea Pappalardo, Domenico Sciotto, Gaetano A. Tomaselli* and Rosa Maria Toscano

**An organo-catalytic approach to the enantioselective synthesis of (*R*)-selegiline**

pp 9758–9763

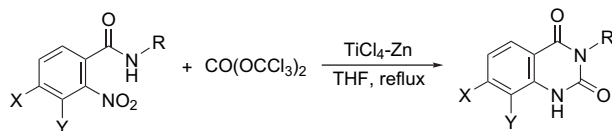
Siva Kumar Talluri and Arumugam Sudalai*



An efficient synthesis of quinazoline-2,4-dione derivatives with the aid of a low-valent titanium reagent

pp 9764–9773

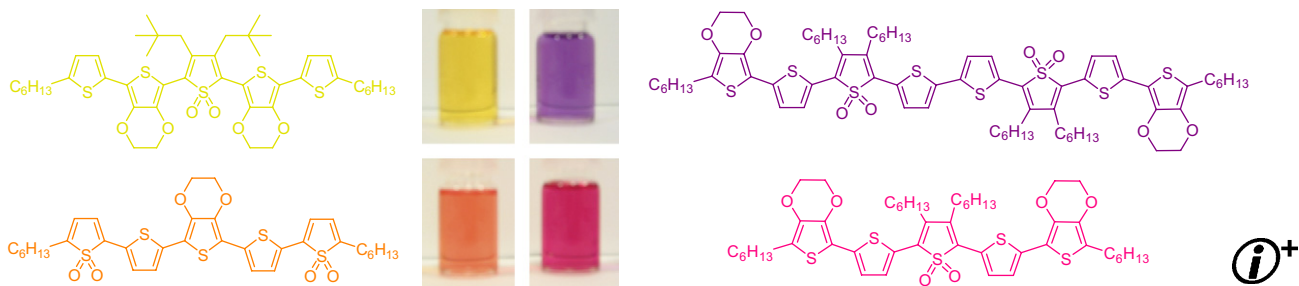
Da-Qing Shi,* Guo-Lan Dou, Zheng-Yi Li, Sai-Nan Ni, Xiao-Yue Li, Xiang-Shan Wang, Hui Wu and Shun-Jun Ji



Molecular engineering of hybrid π -conjugated oligomers combining 3,4-ethylenedioxythiophene (EDOT) and thiophene-*S,S*-dioxide units

pp 9774–9783

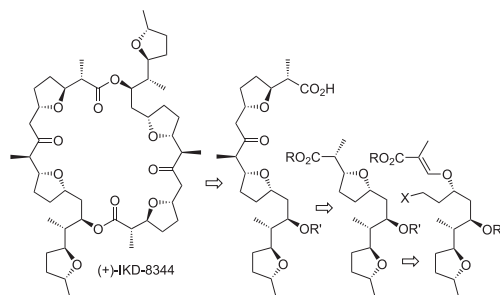
Manuela Melucci,* Pierre Frère,* Magali Allain, Eric Levillain, Giovanna Barbarella and Jean Roncali



Stereoselective synthesis of (+)-IKD-8344

pp 9784–9801

Woo Han Kim, Sung Kil Hong, Sang Min Lim, Min-Ae Ju, Soon Kyu Jung, Yong Wook Kim, Jae Hoon Jung, Min Sang Kwon and Eun Lee*

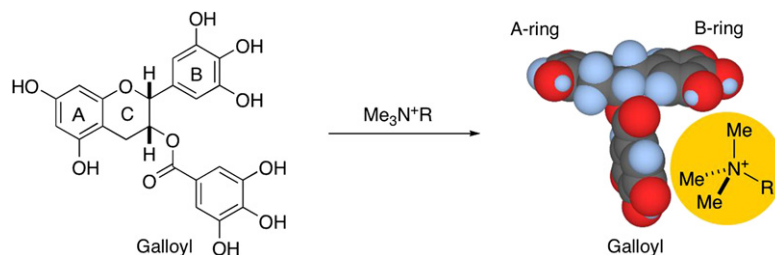


i+

'Biting effect' stabilizing gallate-type catechin/quaternary ammonium ion complexes

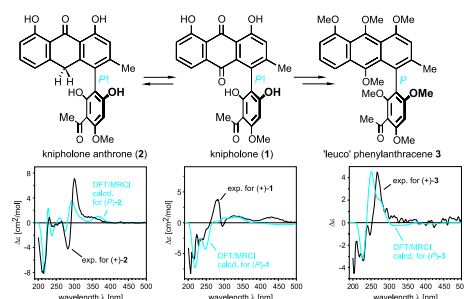
pp 9802–9809

Nobuyuki Hayashi* and Tomomi Ujihara



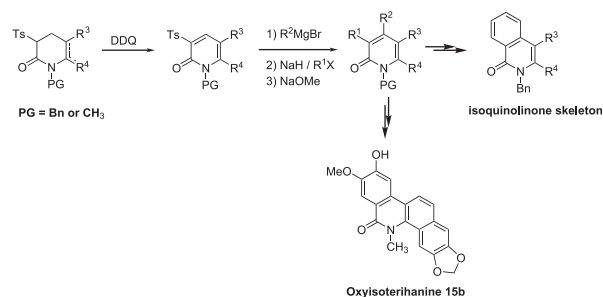
The absolute axial configurations of knipholone and knipholone anthrone by TDDFT and DFT/MRCI CD calculations: a revision

Gerhard Bringmann,* Katja Maksimenka, Joan Mutanyatta-Comar, Michael Knauer and Torsten Bruhn



A facile approach to polysubstituted 2-pyridones. Application to the synthesis of 3,4-disubstituted isoquinolinone and total synthesis of oxyisoterihanine

Tsung-Hsiu Tsai, Wen-Hsuan Chung, Jung-Kai Chang, Ru-Ting Hsu and Nein-Chen Chang*

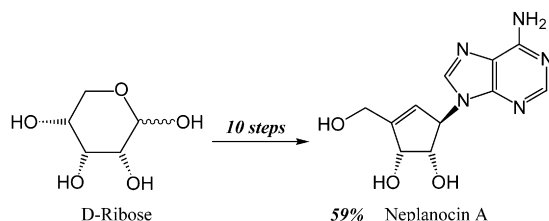


We have disclosed an efficient and regiocontrolled synthesis of polysubstituted 2-pyridones, synthesis of 3,4-disubstituted isoquinolinone, and total synthesis of oxyisoterihanine.



Synthesis of (–)-neplanocin A with the highest overall yield via an efficient Mitsunobu coupling

Benoît Y. Michel and Peter Strazewski*

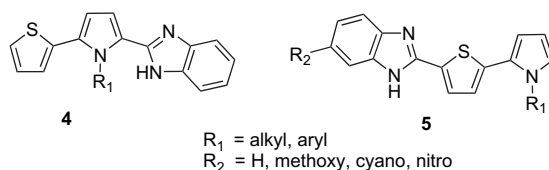


Enantiopure neplanocin A was synthesized in the highest isolated overall yield in 10 steps from D-ribose via an efficient Mitsunobu coupling using *N*⁶-bis-Boc-protected adenine.



Synthesis and second-order nonlinear optical properties of new chromophores containing benzimidazole, thiophene, and pyrrole heterocycles

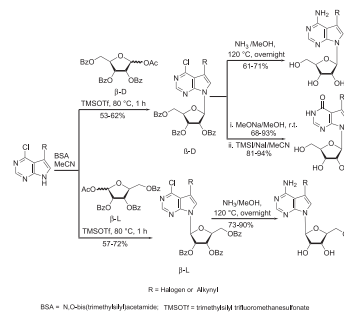
Rosa M. F. Batista, Susana P. G. Costa, M. Belsley and M. Manuela M. Raposo*



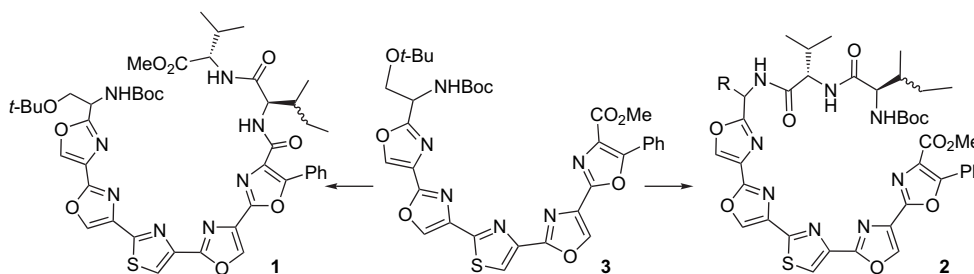
New efficient and thermally stable NLO chromophores **4** and **5** based on a thienylpyrrolyl donor π -conjugated bridge and a benzimidazolyl acceptor moieties were developed by a one-step Na₂S₂O₄ reduction of substituted *o*-nitroanilines in the presence of formyl-thienylpyrroles.

7-Functionalized 7-deazapurine β -D and β -L-ribonucleosides related to tubercidin and 7-deazainosine: glycosylation of pyrrolo[2,3-*d*]pyrimidines with 1-*O*-acetyl-2,3,5-tri-*O*-benzoyl- β -D or β -L-ribofuranose pp 9850–9861
 Frank Seela* and Xin Ming

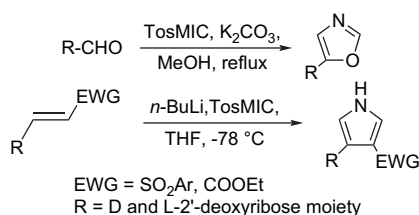
7-Functionalized 7-deazapurine β -D and β -L-ribonucleosides related to tubercidin and 7-deazainosine.



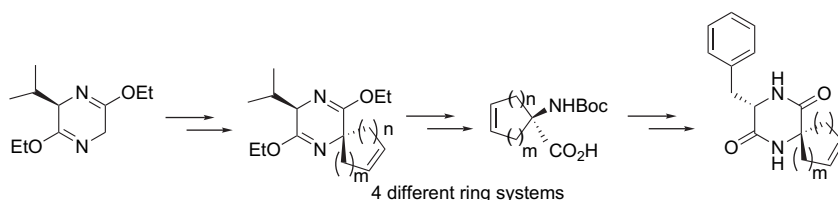
Preparation of penta-azole containing cyclopeptides: challenges in macrocyclization pp 9862–9870
 Delia Hernández, Estela Riego, Andrés Francesch, Carmen Cuevas, Fernando Albericio* and Mercedes Álvarez*



A new synthetic route to oxazole and pyrrole 2-deoxy-C-ribosides pp 9871–9880
 Palakodety Radha Krishna,* V. V. Ramana Reddy and Ravula Srinivas



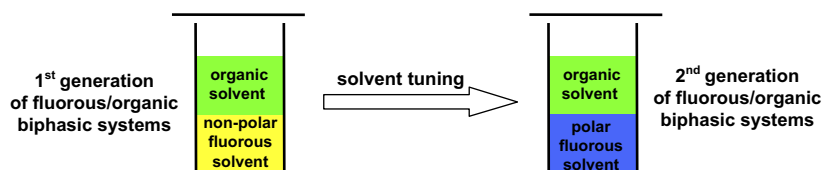
Microwave assisted synthesis of spiro-2,5-diketopiperazines pp 9881–9889
 Fariba Jam, Marcus Tullberg, Kristina Luthman and Morten Grøtli*



New fluorous/organic biphasic systems achieved by solvent tuning

Qianli Chu, Marvin S. Yu* and Dennis P. Curran

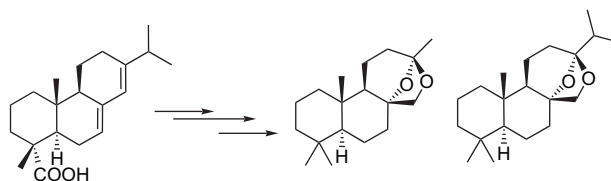
pp 9890–9895



Synthesis of (+)-amberketal and its analog from L-abietic acid

J. S. Yadav,* Gakul Baishya and Uttam Dash

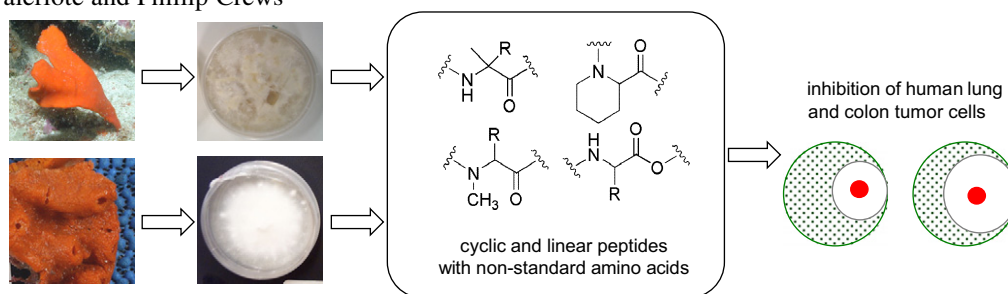
pp 9896–9902



Four classes of structurally unusual peptides from two marine-derived fungi: structures and bioactivities

Claudia M. Boot, Taro Amagata, Karen Tenney, Jennifer E. Compton, Halina Pietraszkiewicz, Frederick A. Valeriote and Phillip Crews*

pp 9903–9914




OTHER CONTENT

Corrigendum

p 9915

*Corresponding author

 Supplementary data available via ScienceDirect



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