

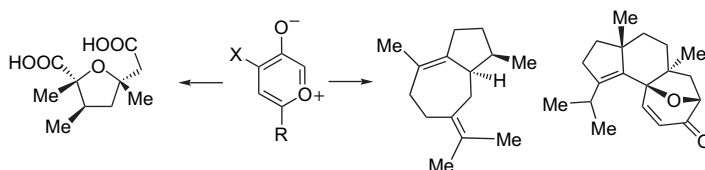
Contents

REPORT

Cycloaddition of oxidopyrylium species in organic synthesis

pp 3405–3428

Vishwakarma Singh*, Urlam Murali Krishna, Vikrant, Girish K. Trivedi*



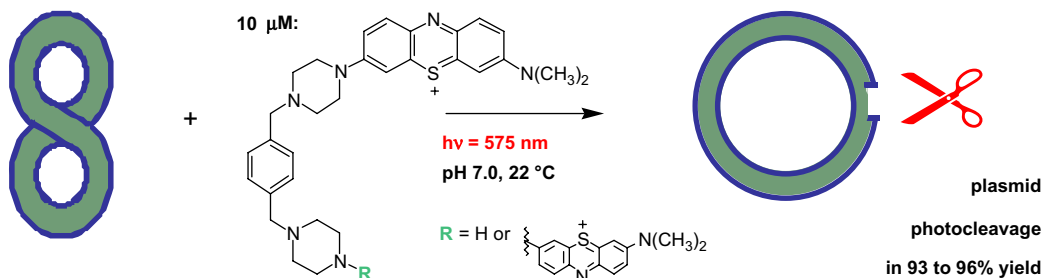
Cycloaddition of oxidopyrylium and related species and their application in the synthesis is described.

ARTICLES

Syntheses and DNA photocleavage by mono- and bis-phenothiazinium–piperazineylene intercalators

pp 3429–3436

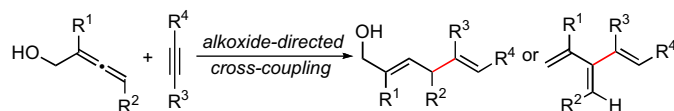
Beth Wilson, María-José Fernández, Antonio Lorente*, Kathryn B. Grant*



Allene–alkyne cross-coupling for stereoselective synthesis of substituted 1,4-dienes and cross-conjugated trienes

pp 3437–3445

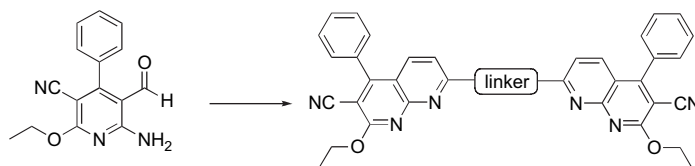
Heidi L. Shimp, Alissa Hare, Martin McLaughlin, Glenn C. Micalizio*



Synthesis of new bis(2-[1,8]naphthyridinyl) bridging ligands with multidentate binding sites

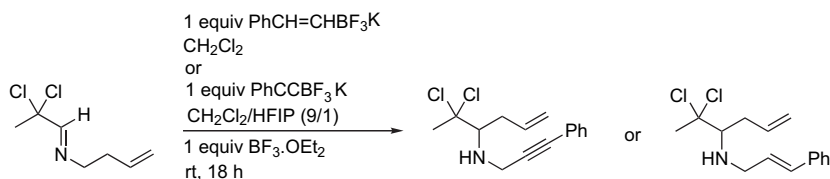
pp 3446–3456

Antonio Fernández-Mato, Gerardo Blanco, José M. Quintela*, Carlos Peinador*

**Carbon–carbon bond formation via a tandem cationic 2-aza-Cope rearrangement–Lewis acid promoted Petasis reaction**

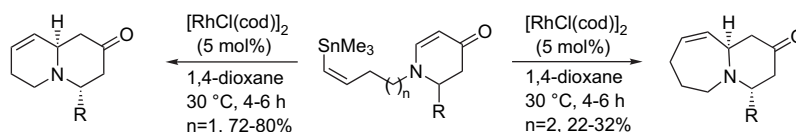
pp 3457–3463

Sara Stas, Kourousch Abbaspour Tehrani*, Georges Laus

**Rhodium-catalyzed intramolecular conjugate addition of vinylstannanes to dihydro-4-pyridones: a simple method for stereoselective construction of 1-azabicyclic alkaloids**

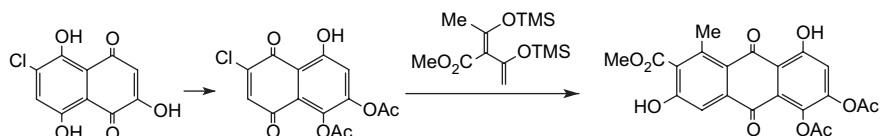
pp 3464–3470

Bartłomiej Furman*, Grzegorz Lipner

**The synthesis of kermesic acid by acetylation-aided tautomerism of 6-chloro-2,5,8-trihydroxynaphtho-1,4-quinone**

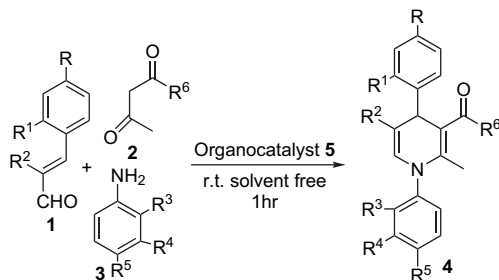
pp 3471–3476

Steve J. Bingham, John H. P. Tyman*



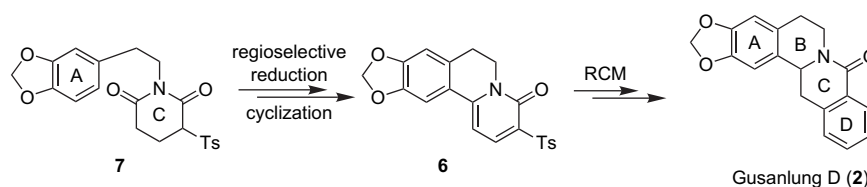
Organocatalysed three-component domino synthesis of 1,4-dihydropyridines under solvent free conditions pp 3477–3482

Atul Kumar*, Ram Awatar Maurya

**Total synthesis of (±)-gusanlung D**

Jung-Kai Chang, Nein-Chen Chang*

pp 3483–3487

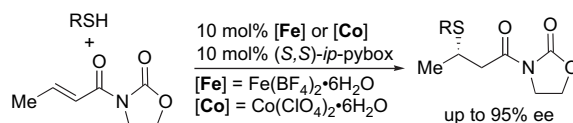


A new approach to the core structure of protoberberine alkaloid was described. Total synthesis of (±)-gusanlung D (2) was reported.

**Asymmetric conjugate addition of thiols to (E)-3-crotonoyloxazolidin-2-one by iron or cobalt/pybox catalyst**

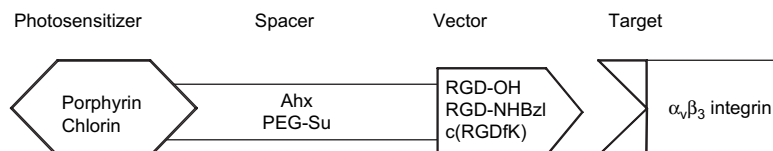
pp 3488–3493

Motoi Kawatsura*, Yuji Komatsu, Masashi Yamamoto, Shuichi Hayase, Toshiyuki Itoh*

**Design and photophysical properties of new RGD targeted tetraphenylchlorins and porphyrins**

pp 3494–3504

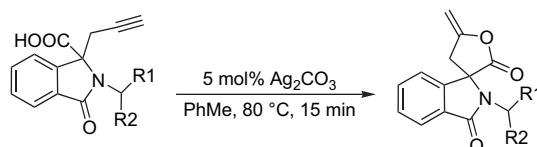
Michel Boisbrun, Régis Vanderesse, Philippe Engrand, Alexis Olié, Sébastien Hupont, Jean-Bernard Regnouf-de-Vains, Céline Frochot*



Silver-catalyzed spirocyclization: first synthesis of spiroisindole- γ -methylene- γ -butyrolactones

pp 3505–3516

Mohamed M. Rammah, Mohamed Othman*, Kabula Ciamala, Carsten Strohmah, Mohamed B. Rammah

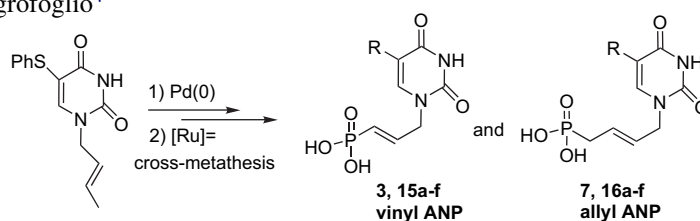


Spirocyclization of isindoloacetylenic carboxylic acids was efficiently catalyzed by silver carbonate under extremely mild conditions. This process was found to be an easy route to novel spiro- γ -methylene- γ -butyrolactones.

Preparation of acyclo nucleoside phosphonate analogues based on cross-metathesis

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Hiroki Kumamoto, Dimitri Topalis, Julie Broggi, Ugo Pradère, Vincent Roy, Sabine Berteina-Raboin, Steven P. Nolan, Dominique Deville-Bonne, Graciela Andrei, Robert Snoeck, Daniel Garin, Jean-Marc Crance, Luigi A. Agrofoglio*

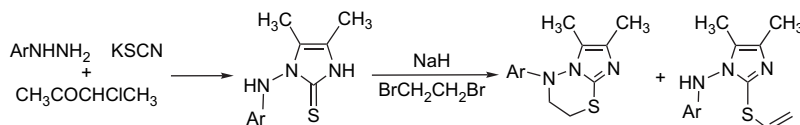


In our on-going program targeting anti-pox activity, the synthesis of various acyclic nucleoside phosphonates is described using olefin cross-metathesis reaction and Pd(0)-mediated alkylation at the C5-position of the uracil moiety.

1-Arylaminoimidazole-2-thiones as intermediates in the synthesis of imidazo[2,1-b][1,3,4]thiadiazines

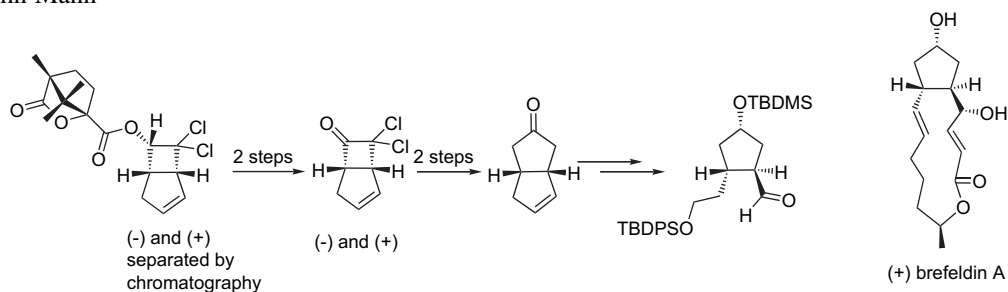
pp 3527–3533

Constantinos Neochoritis, Constantinos A. Tsoleridis*, Julia Stephanidou-Stephanatou

**A practical route to both enantiomers of bicyclo[3.3.0]oct-2-en-7-one and their use for the synthesis of key trisubstituted cyclopentanes**

pp 3534–3540

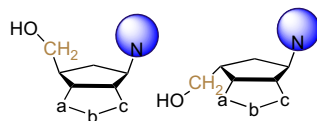
David Cousin, John Mann*



From cyclopentadiene to isoxazoline-carbocyclic nucleosides: a rapid access to biological molecules through aza-Diels–Alder reactions

pp 3541–3547

Paolo Quadrelli*, Andrea Piccanello, Mariella Mella, Antonino Corsaro, Venerando Pistrà

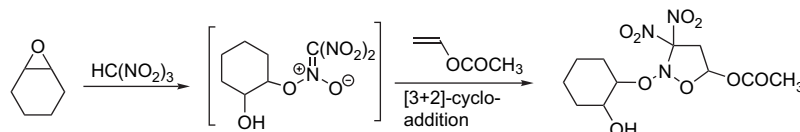


A rapid access to carbocyclic nucleosides containing a fused isoxazoline ring is proposed through the Grieco cycloaddition of cyclopentadiene to iminium salts. The prolific elaboration of the isoxazoline cycloadducts allowed preparation of the target aminols through the unmasking of the hydroxymethylene group at the C3 level of the azanorborene structure. The heterocyclic aminols are readily converted into nucleosides via the linear construction of purine heterocycles.

A new three-component one pot reaction of trinitromethane, epoxides and alkenes via dinitronitronates: synthesis of highly functionalized 3,3-dinitroisoxazolidines

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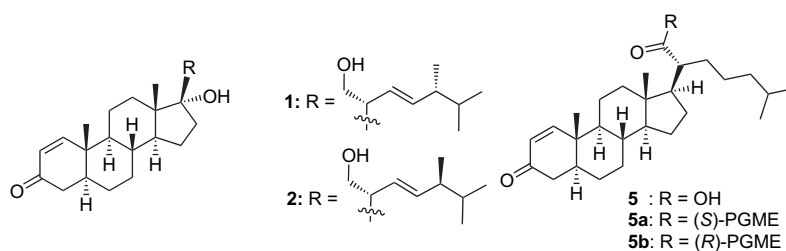
Yuliya A. Volkova, Olga A. Ivanova, Ekaterina M. Budynina, Elena B. Averina, Tamara S. Kuznetsova*, Nikolai S. Zefirov



Anti-inflammatory steroids from the octocoral *Dendronephthya griffini*

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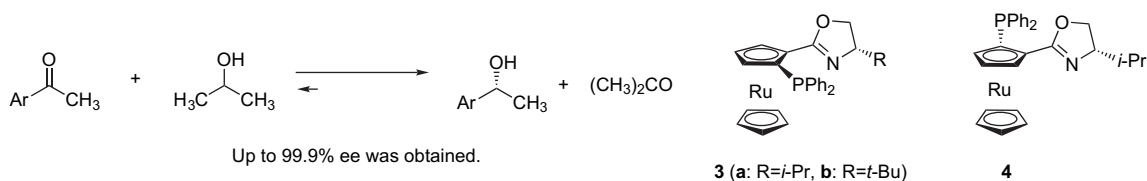
Chih-Hua Chao, Zhi-Hong Wen, I-Ming Chen, Jui-Hsin Su, Ho-Cheng Huang, Michael Y. Chiang, Jyh-Horng Sheu*



Enantioselective transfer hydrogenation of ketones with planar chiral ruthenocene-based phosphinoisoxazoline ligands

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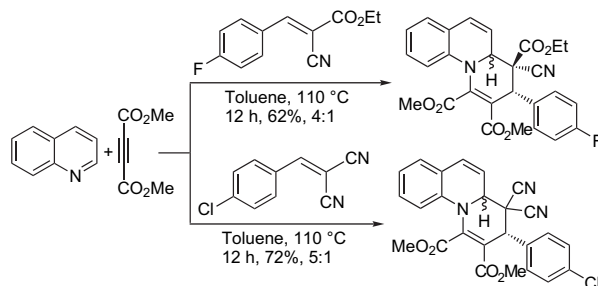
Delong Liu, Fang Xie, Xiaohu Zhao, Wanbin Zhang*



Construction of heterocycles via 1,4-dipolar cycloaddition of quinoline–DMAD zwitterion with various dipolarophiles

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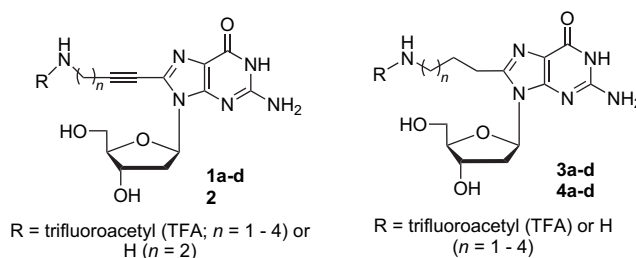
Vijay Nair*, S. Devipriya, Eringathodi Suresh



C8-alkynyl- and alkylamino substituted 2'-deoxyguanosines: a universal linker for nucleic acids modification

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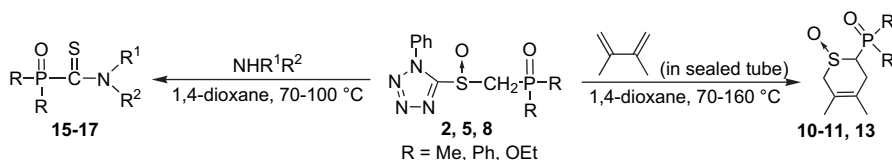
Yoshio Saito*, Katsuhiko Matsumoto, Subhendu Sekhar Bag, Shinzi Ogasawara, Kenzo Fujimoto, Kazuo Hanawa, Isao Saito*




Thermolyses of α -phosphorylmethyl tetrazolyl sulfoxides in the presence of 2,3-dimethyl-1,3-butadiene and their reactions with several amines

pp 3589–3595

Hiroyuki Morita*, Shintaro Tashiro, Masahiro Takeda, Ken Fujimori, Nobuhiko Yamada, Md. Chanmiya Sheikh, Hiroyuki Kawaguchi



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 Supplementary data available via ScienceDirect



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