

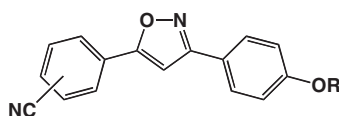
Contents

COMMUNICATIONS

Solid-phase synthesis of liquid crystalline isoxazole library

pp 2277–2279

Takeharu Haino, Masahiro Tanaka, Keiko Ideta, Kanji Kubo, Akira Mori and Yoshimasa Fukazawa*

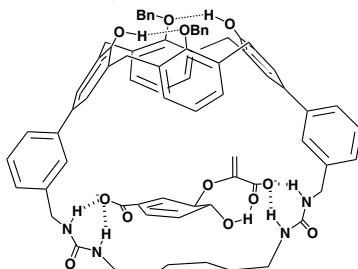


Liquid crystalline isoxazole library has been synthesized by 1,3-dipolar cycloaddition reaction on solidsupport. The liquid crystalline materials found in the library exhibit nematic and smectic A phases.

Calix[4]arene-based ditopic receptor for dicarboxylates

pp 2281–2284

Takeharu Haino, Masaki Nakamura, Nobuki Kato, Miki Hiraoka and Yoshimasa Fukazawa*

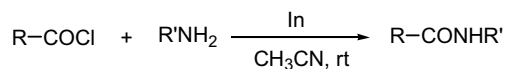


The calix[4]arene-based synthetic receptor was developed. The selective binding of dicarboxylates is observed even in DMSO. Biologically important chorismate dianion was selectively complexed over its dehydrated derivative.

Indium-mediated mild and facile method for the synthesis of amides

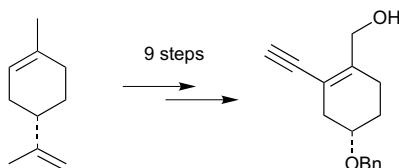
pp 2285–2287

Dae Hyan Cho and Doo Ok Jang*

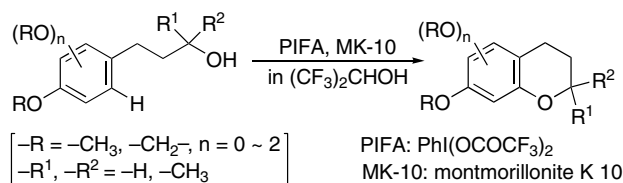


Vitamin D: a concise synthesis of the C₁₉ hydroxylated enyne A-ring, an interesting precursor for the preparation of C₁₉ substituted vitamin D analogues pp 2289–2292

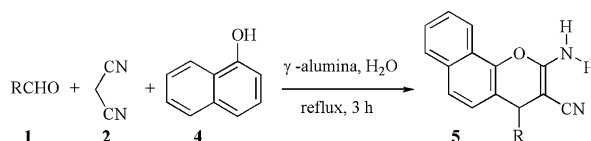
Raphaël Rodriguez, Cyril Ollivier* and Maurice Santelli*


A novel and direct synthesis of chroman derivatives using a hypervalent iodine(III) reagent pp 2293–2295

Hiromi Hamamoto, Kayoko Hata, Hisanori Nambu, Yukiko Shiozaki, Hirofumi Tohma and Yasuyuki Kita*

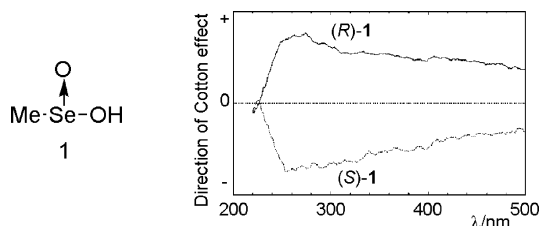

Basic alumina catalysed synthesis of substituted 2-amino-2-chromenes via three-component reaction pp 2297–2299

Raimondo Maggi,* Roberto Ballini, Giovanni Sartori and Raffaella Sartorio


 2-Amino-2-chromenes were obtained in excellent yield and selectivity simply by mixing malononitrile, α -naphthol and aromatic aldehydes in water in the presence of basic alumina as reusable catalyst.

Isolation, absolute configuration, and chiral crystallization of optically active seleninic acid pp 2301–2303

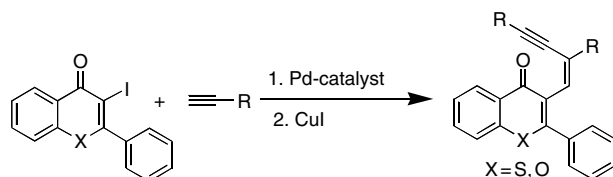
Yusuke Nakashima, Toshio Shimizu, Kazunori Hirabayashi, Nobumasa Kamigata,* Masanori Yasui, Masaki Nakazato and Fujiko Iwasaki



Palladium mediated stereospecific synthesis of 3-enynyl substituted thioflavones/flavones

pp 2305–2309

Manojit Pal,* Karuppasamy Parasuraman, Venkataraman Subramanian, Rambabu Dakarapu and Koteswar Rao Yeleswarapu*



Sequential palladium catalysis is utilized for the stereocontrolled synthesis of enynes in a simple synthetic operation.

Amino acid-mediated Goldberg reactions between amides and aryl iodides

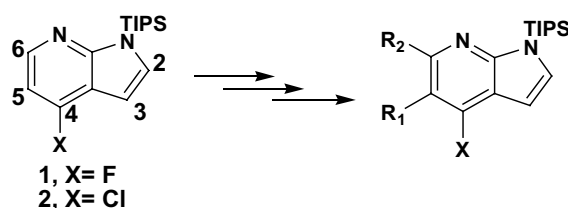
pp 2311–2315

Wei Deng, Ye-Feng Wang, Yan Zou, Lei Liu* and Qing-Xiang Guo*

**Synthesis of functionalized 7-azaindoles via directed *ortho*-metalations**

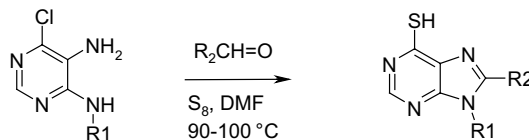
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Alexandre L'Heureux,* Carl Thibault and Réjean Ruel

**One-pot syntheses of 6-mercaptapurines (6MP) from 4,5-diamino-6-chloro-pyrimidines**

pp 2321–2322

Sagun Tandel, Igor Bliznets, Katalin Ebinger, You-An Ma, Dilip Bhumralkar and Mohan Thiruvazhi*



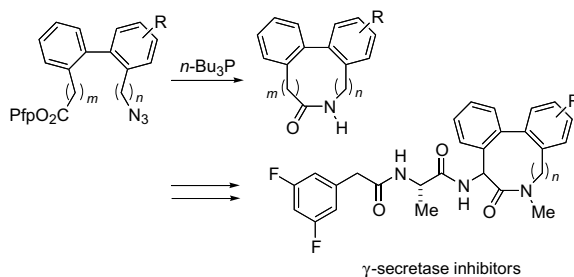
One-pot procedure



Highly efficient synthesis of medium-sized lactams via intramolecular Staudinger–aza-Wittig reaction of ω -azido pentafluorophenyl ester: synthesis and biological evaluation of LY411575 analogues

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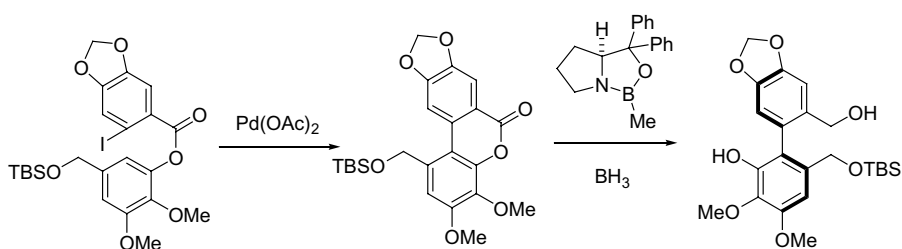
Haruhiko Fuwa,* Yumiko Okamura, Yuichi Morohashi, Taisuke Tomita, Takeshi Iwatsubo, Toshiyuki Kan, Tohru Fukuyama and Hideaki Natsugari*



Enantioselective construction of biaryl part in the synthesis of stegane related compounds

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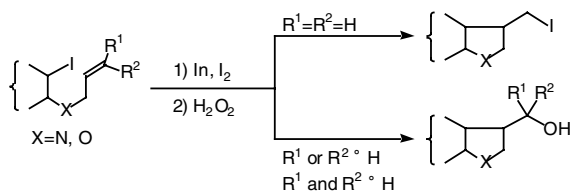
Hitoshi Abe,* Shigemitsu Takeda, Takuro Fujita, Keisuke Nishioka, Yasuo Takeuchi and Takashi Harayama*



Indium-mediated radical cyclization of iodoalkenes and iodoalkynes with and without allylic and propargylic leaving groups

pp 2331–2334

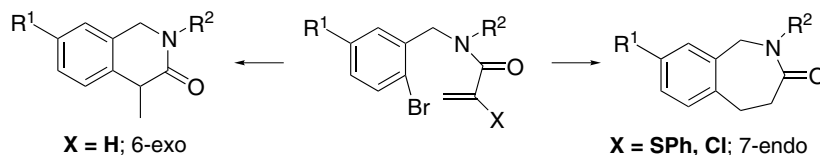
Reiko Yanada,* Shingo Obika, Nobuaki Nishimori, Masashige Yamauchi and Yoshiji Takemoto*



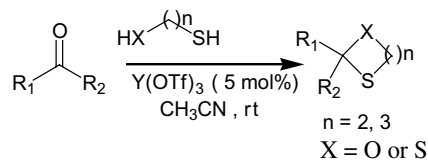
Convenient switching of 7-endo/6-exo radical cyclization

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Akio Kamimura* and Yohei Taguchi

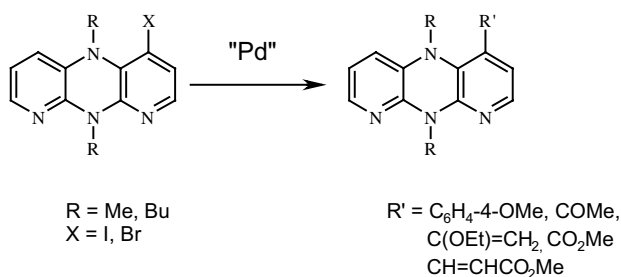


Yttrium triflate as an efficient and useful catalyst for chemoselective protection of carbonyl compounds pp 2339–2341
Surya Kanta De*



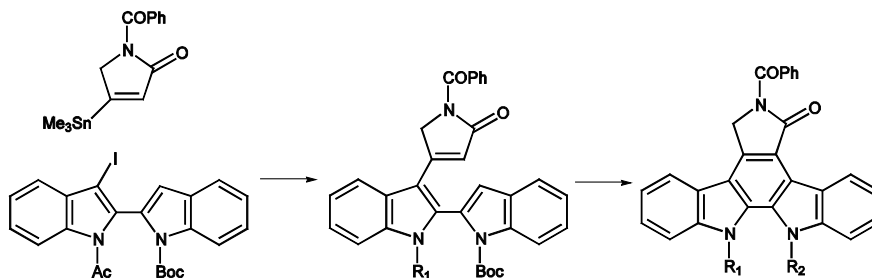
Functionalization of dihydropyridopyrazines involving palladium-catalyzed coupling reactions pp 2343–2346

Irina-Claudia Grig-Alexa, Adriana-Luminita Finaru, Lucia Ivan, Paul Caubère and Gérald Guillaumet*



A new approach to N-protected staurosporinones pp 2347–2349

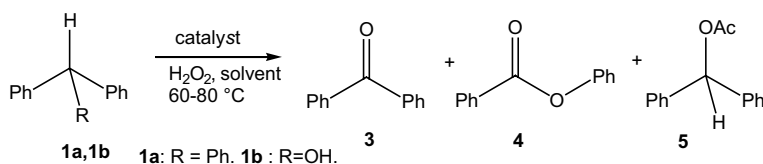
Maria M. M. Santos, Ana M. Lobo,* Sundaresan Prabhakar* and M. Manuel B. Marques



A completely regioselective synthesis of glycosidic acceptors for indolopyrrolo[2,3-*a*]carbazole alkaloids is reported.

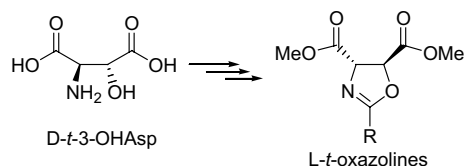
A novel catalyzed C–H insertion reactions of hydrogen peroxide by poly(4-vinylpyridine)/methyltrioxorhenium systems pp 2351–2353

Gianluca Bianchini, Marcello Crucianelli,* Francesco De Angelis, Veronica Neri and Raffaele Saladino*



An efficient approach to D-threo-3-hydroxyaspartic acid for the synthesis of novel L-threo-oxazolines as selective blockers of glutamate reversed uptake pp 2355–2357

Meri De Angelis and Giuseppe Campiani*

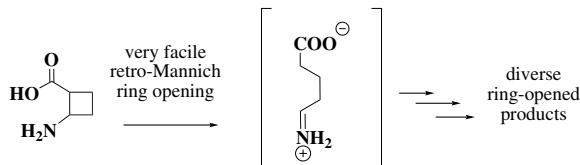


An efficient, stereoselective synthetic strategy to D-threo-3-hydroxyaspartic acid was developed. Starting from D-threo-3-hydroxyaspartic acid, L-threo-oxazolines can be stereoselectively synthesized.

Studies on the stability of the cyclobutane β -aminoacid skeleton: a cautionary tale

pp 2359–2361

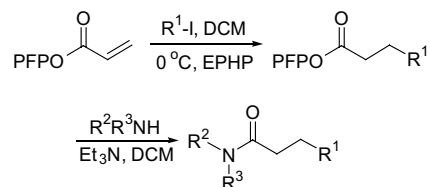
David J. Aitken,* Christine Gauzy and Elisabeth Pereira



A novel route to functionalized PFP esters via rapid intermolecular radical addition to PFP acrylate mediated by ethylpiperidinium hypophosphite (EHP)

pp 2363–2366

Stephen Caddick,* Daniel Hamza, Duncan B. Judd, Melanie T. Reich, Sjoerd N. Wadman and Jonathan D. Wilden

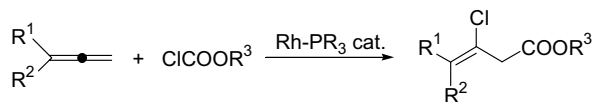


Pentafluorophenyl (PFP) acrylate, a stable compact bifunctional scaffold undergoes rapid N-ethylpiperidinium hypophosphite (EHP) mediated radical addition to yield a variety of active esters susceptible to further functionalization by aminolysis.

Rhodium(I)-catalyzed regioselective additions of chloroformates to 1,2-dienes

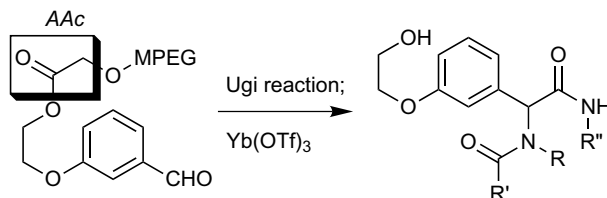
pp 2367–2370

Ruimao Hua and Masato Tanaka*



Rhodium phosphine complexes catalyze addition of chloroformates to terminal allenes to afford β -chloro- β,γ -unsaturated esters.

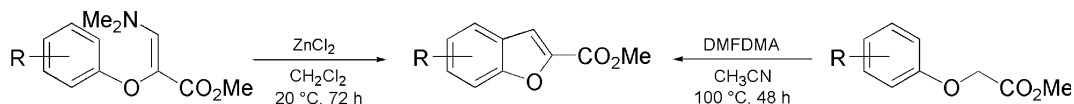
Alkoxyacetyl (AAc) group as a useful linker for organic synthesis on poly(ethylene glycol) support pp 2371–2375
Masato Oikawa,* Minoru Ikoma and Makoto Sasaki



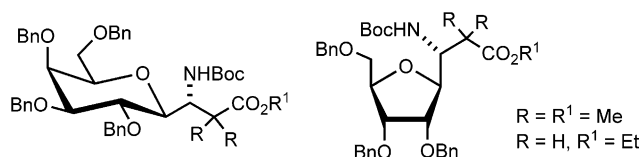
An alkoxyacetyl group (AAc) group was found to be an efficient linker for high-throughput synthesis of small molecules on a soluble polymer support. The preparation, protocols for loading and releasing of small molecules, and an application to the Ugi four-component coupling reaction are reported.

Captodative olefins: methyl 2-aryloxy-3-dimethylaminopropenoates and their application in a new synthesis of benzofurans pp 2377–2380

María del Carmen Cruz and Joaquín Tamariz*

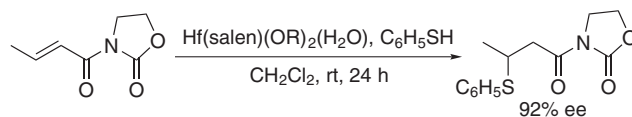


Synthesis of C-glycosyl β -amino acids by asymmetric Mannich-type three-component reactions pp 2381–2384
Alessandro Dondoni,* Alessandro Massi, Simona Sabbatini and Valerio Bertolasi



Construction of a new asymmetric reaction site: asymmetric 1,4-addition of thiol using pentagonal bipyramidal Hf(salen) complex as catalyst pp 2385–2388

Kazuhiro Matsumoto, Akira Watanabe, Tatsuya Uchida, Kayoko Ogi and Tsutomu Katsuki*

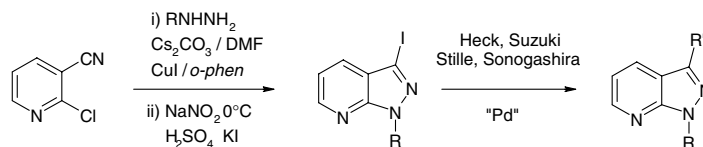


Seven-coordinate Hf(salen) complex can be used as catalyst for asymmetric 1,4-addition of thiol.

Synthesis and functionalisation of 1H-pyrazolo[3,4-b]pyridines involving copper and palladium-promoted coupling reactions

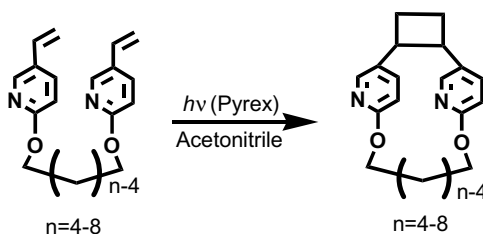
pp 2389–2392

G. Lavecchia, S. Berteina-Raboin and G. Guillaumet*


Synthesis and structural study of [2.n](2,5)pyridinophanes

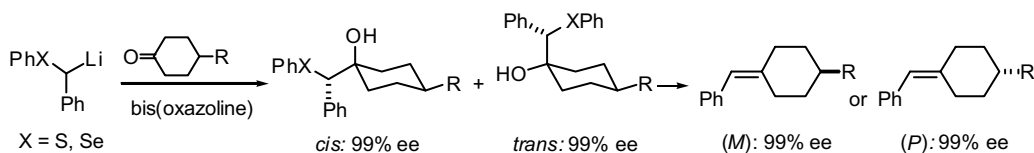
pp 2393–2397

Takashi Funaki, Seiichi Inokuma, Hayato Ide, Tomomi Yonekura, Yosuke Nakamura and Jun Nishimura*


A novel method for the preparation of benzylidenecyclohexanes with high optical purity

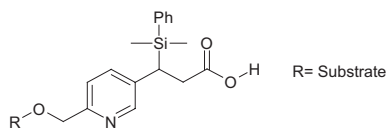
pp 2399–2402

Shuichi Nakamura, Takahiro Ogura, Libo Wang and Takeshi Toru*


Synthesis of a novel silicon bearing linker for solid phase synthesis

pp 2403–2404

Robert Ramage,* Martin J. I. Andrews, Jenny Raphy and Pu Wang

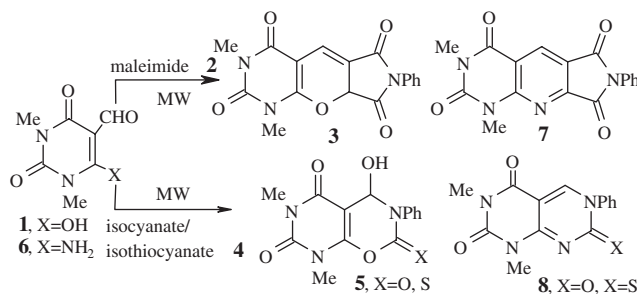


The synthesis of a novel fluoride cleavable linker is described.

Studies on uracils: a facile one-pot synthesis of oxazino[4,5-*d*]-, pyrano[2,3-*d*]-, pyrido[2,3-*d*]- and pyrimido[4,5-*d*]pyrimidines using microwave irradiation in the solid state

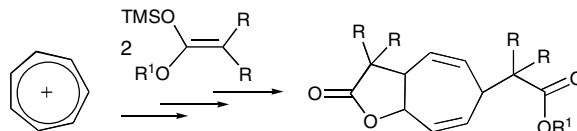
pp 2405–2408

Ipsita Devi, Harsha N. Borah and Pulak J. Bhuyan*


Triple nucleophilic additions of (trimethylsilyl)ketene acetals to tropylium derivatives: access to the core nuclei of xanthanolides

pp 2409–2411

Henri Rudler,* Cecilio Alvarez, Andrée Parlier, Eugenia Perez, Bernard Denise, Yiming Xu and Jacqueline Vaissermann

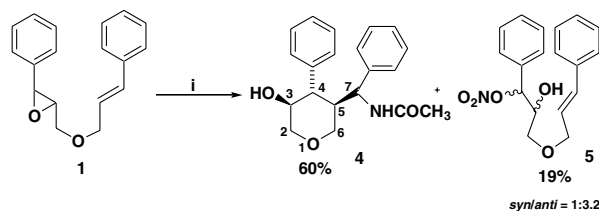


Tropylium tetrafluoroborate reacts sequentially with 2 equiv of (trimethylsilyl)ketene acetals to give 5,7-fused γ -lactones via Cr(CO)₃ triene complexes.

CAN mediated cyclization of epoxypropyl cinnamyl ethers: a facile stereoselective synthesis of tetrahydropyran derivatives

pp 2413–2416

Vijay Nair,* Lakshmi Balagopal, Roshini Rajan, Ani Deepthi, Kishor Mohanan and Nigam P. Rath

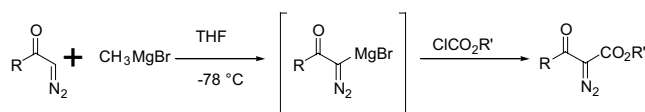

 i) CAN (0.5 eq.), dry CH₃CN, argon, RT, 16 h

Cerium(IV) ammonium nitrate in substoichiometric amounts, promotes the intramolecular cyclization of epoxypropyl cinnamyl ethers to the corresponding 3,4,5-trisubstituted tetrahydropyran derivatives in moderate to good yields.

Metalation of α -diazocarbonyl compounds using Grignard reagents. A convenient synthesis of α -diazo- β -ketoesters and mixed esters of α -diazomalonate

pp 2417–2419

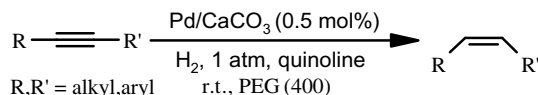
Erick Cuevas-Yañez,* Joseph M. Muchowski and Raymundo Cruz-Almanza



Pd/CaCO₃ in liquid poly(ethylene glycol) (PEG): an easy and efficient recycle system for partial reduction of alkynes to *cis*-olefins under a hydrogen atmosphere

pp 2421–2423

S. Chandrasekhar,* Ch. Narsihmulu, G. Chandrashekar and T. Shyamsunder

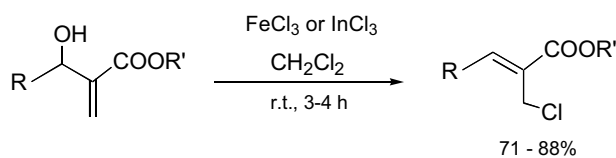


Lindlar's catalyst (Pd/CaCO₃) in PEG (400) has been found to be the most reusable reaction medium for selective reduction of alkynes to *cis*-olefins. The catalyst and PEG were recycled five times without loss of activity.

Convenient and efficient stereoselective synthesis of (2*Z*)-2-(chloromethyl)alk-2-enoates using iron(III) or indium(III) chloride

pp 2425–2426

Biswanath Das,* Joydeep Banerjee, Nasi Ravindranath and Bollu Venkataiah

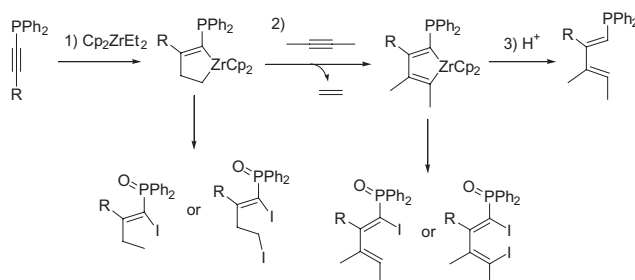


R = alkyl or aryl; R' = alkyl

Selective preparation of 1,3-butadienyl phosphines, 1-iodo- and 1,4-diiodo-butadienyl phosphine oxides via zirconocene-mediated cross-coupling of alkynylphosphines

pp 2427–2429

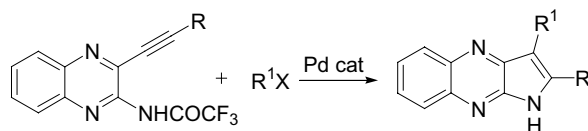
Zhenfeng Xi,* Wenxiong Zhang and Tamotsu Takahashi*



2,3-Disubstituted pyrrolo[2,3-*b*]quinoxalines via aminopalladation–reductive elimination

pp 2431–2434

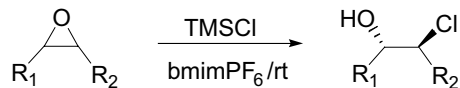
Antonio Arcadi, Sandro Cacchi,* Giancarlo Fabrizi and Luca M. Parisi



Efficient synthesis of chlorohydrins: ionic liquid promoted ring-opening reaction of epoxides and TMSCl

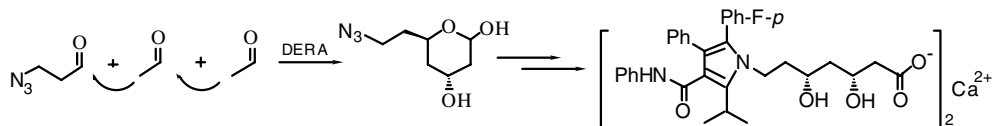
pp 2435–2438

Li-Wen Xu, Lyi Li, Chun-Gu Xia* and Pei-Qing Zhao

**Sequential aldol condensation catalyzed by DERA mutant Ser238Asp and a formal total synthesis of atorvastatin**

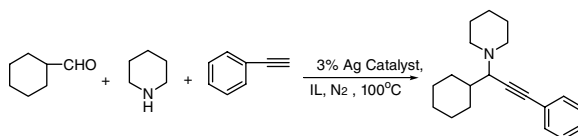
pp 2439–2441

Junjie Liu, Che-Chang Hsu and Chi-Huey Wong*

**Three-component coupling of aldehyde, alkyne, and amine catalyzed by silver in ionic liquid**

pp 2443–2446

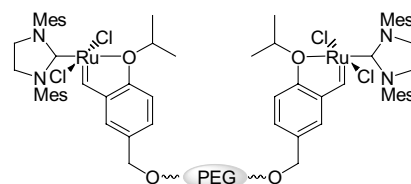
Zigang Li, Chunmei Wei, Liang Chen, Rajender S. Varma and Chao-Jun Li*

**Immobilization of the Grubbs second-generation ruthenium-carbene complex on poly(ethylene glycol): a highly reactive and recyclable catalyst for ring-closing and cross-metathesis**

pp 2447–2451

Qingwei Yao* and Adalie Rodriguez Motta

Immobilized Ru catalyst:



used for up to 17 cycles with > 94% conversion in RCM reactions; highly reactive and recyclable in CM reactions.

A convenient one-pot synthesis of 2β-(*O*-dibenzyl-phosphate)-oxymethyl-2α-methyl penam 3α-carboxylic acid benzyl ester and 3β-(*O*-dibenzyl-phosphate)-3α-methyl cepham 4α-carboxylic acid benzyl ester

pp 2453–2455

Patricia V. Yovaldi, María de los Angeles Laborde and Oreste A. Mascaretti*

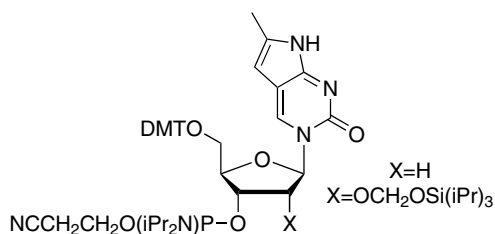
The title compounds whose synthesis is described were selected to have the bicyclic β-lactam scaffold and a phosphate triester functionality that can mimic the transition state implicated during the nucleophilic attack of hydroxide ion from the active site of mono- or binuclear-Zn(II)-β-lactamase to the β-lactam carbonyl group.



Pyrrolo-dC and pyrrolo-C: fluorescent analogs of cytidine and 2'-deoxycytidine for the study of oligonucleotides

pp 2457–2461

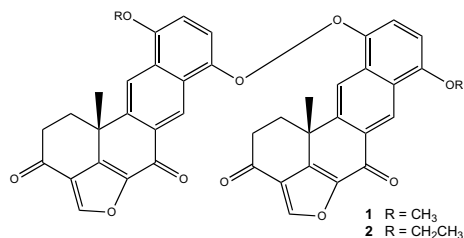
David A. Berry,* Kee-Yong Jung, Dean S. Wise, Anthony D. Sercel, William H. Pearson, Hugh Mackie, John B. Randolph and Robert L. Somers



New pentacyclic polyketide dimeric peroxides from a Taiwanese marine sponge *Petrosia elastica*

pp 2463–2466

Ya Ching Shen,* Chaturvedula V. Sai Prakash and Jih-Hwa Guh



Two novel pentacyclic polyketide dimers, dihalenaquinolides—A (**1**) and B (**2**), have been isolated from the marine sponge *Petrosia elastica*

Synthesis of non-proteinogenic phenylalanine analogues by Suzuki cross-coupling of a serine-derived alkyl boronic acid

pp 2467–2471

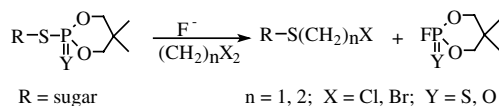
Joanne E. Harvey, Martin N. Kenworthy and Richard J. K. Taylor*



A novel and practical synthesis of *S*-(1- and 2-halogenoalkyl)sugars by reaction of carbohydrate *S*-(*O,O*-dialkyl)phosphorodithioates and monothioates with fluoride anion

pp 2473–2476

Halszka Bielawska and Maria Michalska*




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*Corresponding author

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