

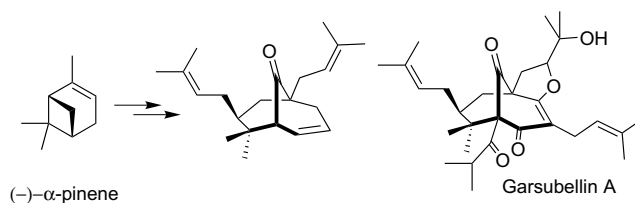
Tetrahedron Letters Vol. 45, No. 6, 2004

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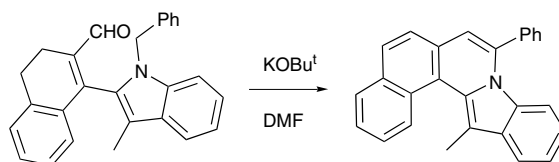
Goverdhan Mehta* and Mrinal K. Bera



The synthesis of indolo- and pyrrolo[2,1-*a*]isoquinolines

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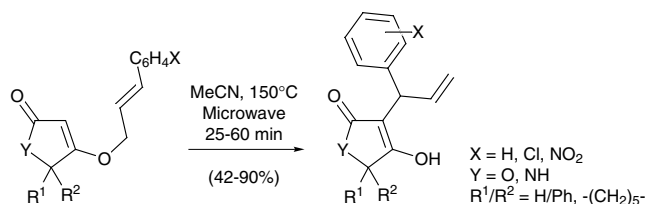
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Microwave-accelerated Claisen rearrangements of allyl tetronates and tetramates

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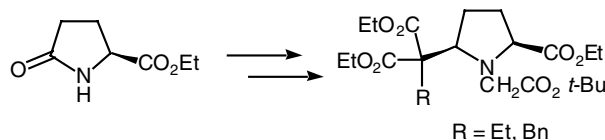
Rainer Schobert,* Gary J. Gordon, Gillian Mullen and Ralf Stehle



***cis*-Selective synthesis of 2,5-disubstituted pyrrolidines**

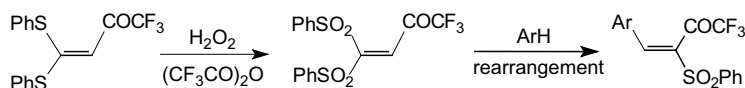
pp 1125–1127

Syed Raziullah Hussaini and Mark G. Moloney*

**A novel effective electrophile: β -trifluoroacetylketene diphenyldithioacetal *S,S*-tetroxide**

pp 1129–1132

Arkady L. Krasovsky, Sergej V. Druzhinin, Valentine G. Nenajdenko* and Elizabeth S. Balenkova

**Selective α -monoallylation of phenyl ketones and benzocycloalkanones under microwave irradiation**

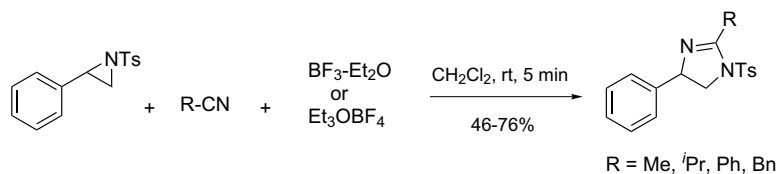
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José M. Cid, Juan L. Romera and Andrés A. Trabanco*

**Synthesis of substituted imidazolines via [3+2]-cycloaddition of aziridines with nitriles**

pp 1137–1141

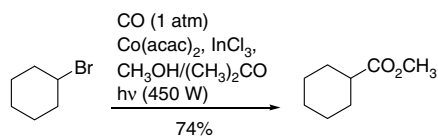
B. A. Bhanu Prasad, Ghanshyam Pandey and Vinod K. Singh*



Cobalt-catalyzed photolytic methoxycarbonylation of bromoalkanes in the presence of a Lewis acid

pp 1143–1145

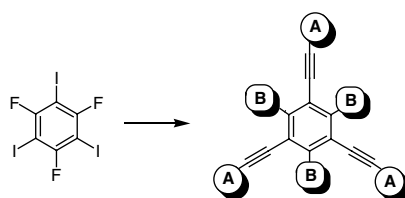
Daniel Cash, Angela Combs and Veljko Dragojlovic*



New persubstituted 1,3,5-trisethynyl benzenes via Sonogashira coupling

pp 1147–1149

Gunther Hennrich* and Antonio M. Echavarren

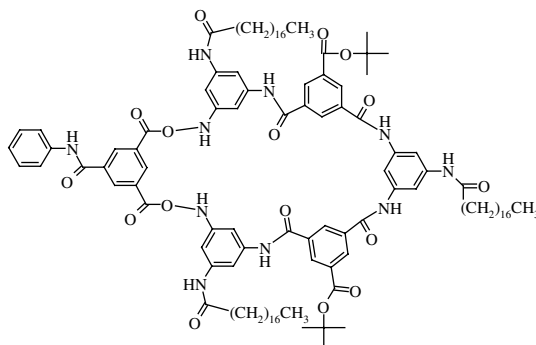


Starting from 1,3,5-trifluoro-2,4,6-triiodobenzene, selective Sonogashira coupling gave trisalkynylbenzenes, which can be further functionalized making use of the reactive fluorine substituents on the benzene core. Additionally, an unexpected conversion of a 1,3,5-tris-(trimethylsilanylentynyl)benzene led to a pentasubstituted benzene derivative the structure of which was revealed by X-ray crystallography.

Synthesis of an amide cyclophane building block of shape-persistent triangular molecular wedges

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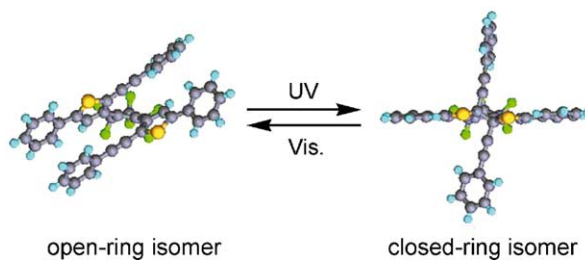
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Large geometrical structure changes of photochromic diarylethenes upon photoirradiation

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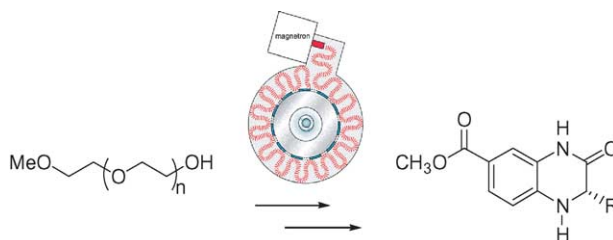
Kentaro Morimitsu, Seiya Kobatake and Masahiro Irie*



Liquid phase synthesis of chiral quinoxalinones by microwave irradiation

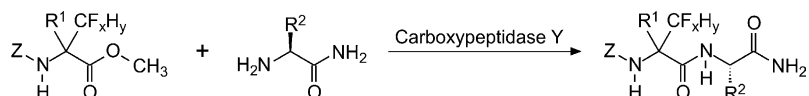
pp 1159–1162

Chieh-Li Tung and Chung-Ming Sun*

**Discovery of carboxypeptidase Y as a catalyst for the incorporation of sterically demanding α -fluoroalkyl amino acids into peptides**

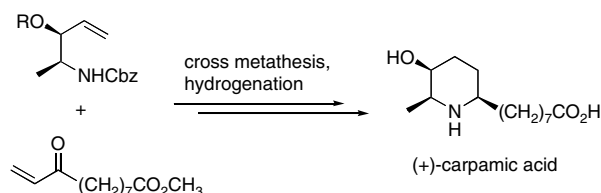
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Sven Thust and Beate Kokschi*

**Concise total synthesis of (+)-carpamic acid**

pp 1167–1169

Stefan Randl and Siegfried Blechert*

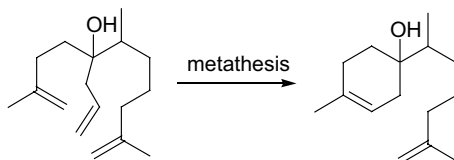


An enantioselective total synthesis of (+)-carpamic acid is reported. This concise synthesis is based on a novel concept of a selective cross-metathesis reaction with a subsequent diastereoselective cyclizing reductive amination.

Ring-closing olefin metathesis reactions; synthesis of iso- β -bisabolol

pp 1171–1172

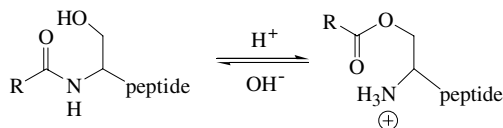
Jutta M. Mörghenthaler and Dietrich Spitzner*



O–N–Acyl migration in N-terminal serine-containing peptides: mass spectrometric elucidation and subsequent development of site-directed acylation protocols

pp 1173–1178

L. Mouls, G. Subra, C. Enjalbal, J. Martinez and J.-L. Aubagnac*

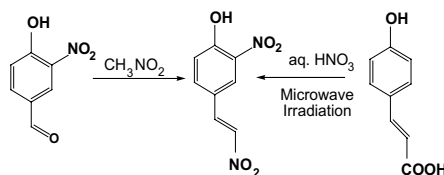


The synthesis of a modified pentapeptide involving the palmitoylation of the hydroxyl group of a serine residue present at the N-terminal position is presented. An O–N-acyl shift was observed by LC/MS/MS, the two isobaric molecules exhibiting upon collisional activation dissociation (CAD) different fragmentation behaviours. The synthetic pathway was thereafter modified to control the palmitoylation site (O or N). The method was validated with another serine acylation (octanoylation). The evidenced mass spectrometric criteria could serve to decipher peptide post-translational modifications in proteomics.

Microwave assisted synthesis of an unusual dinitro phytochemical

pp 1179–1181

Ajay K. Bose,* Subhendu N. Ganguly, Maghar S. Manhas, Vaidyanathan Srirajan, Ashoke Bhattacharjee, Sochanchingwung Rumthao and Anju H. Sharma

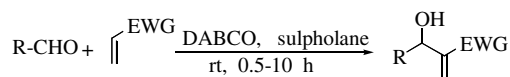


A novel dinitro secondary metabolite, 2-nitro-4-(2'-nitroethenyl)phenol has been isolated from a marine source. This metabolite was synthesized first (in 1964 in Japan) and discovered later (in 1991 in India) as a natural product. We describe here a new synthesis via highly accelerated, microwave assisted, nitration reactions using mild reagents. *ipso*-Substitution of a carboxy group by a nitro group is discussed.

Sulpholane—A new solvent for the Baylis–Hillman reaction

pp 1183–1185

Palakodety Radha Krishna,* A. Manjuvani, V. Kannan and G. V. M. Sharma

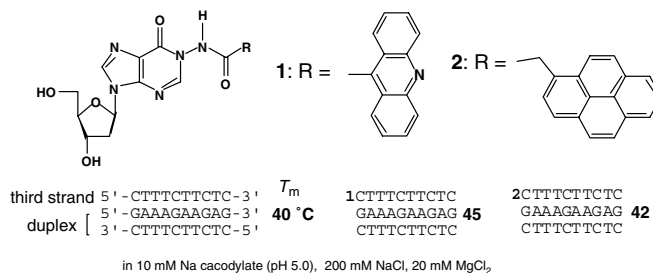


Sulpholane, a commercially available solvent, is used for the first time as a solvent for the Baylis–Hillman reaction under ambient conditions.

Stabilization of DNA triplexes by dangling aromatic residues

pp 1187–1190

Mio Kubota and Akira Ono*



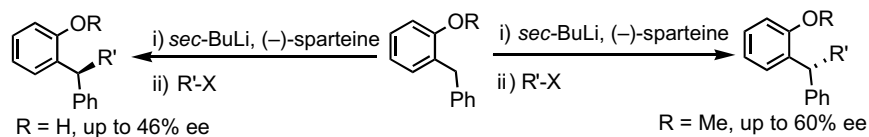
Remarkable stabilization of DNA triplex formation by the dangling residues was accomplished by employing novel nucleoside–aromatic ring conjugates as the dangling residues.



Asymmetric alkylation of diphenylmethane derivatives using (-)-sparteine

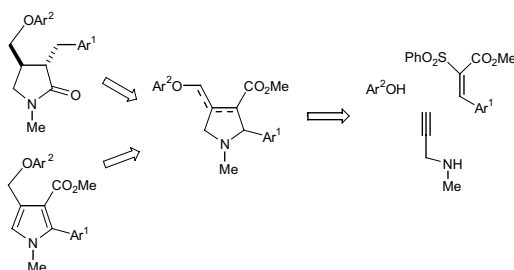
pp 1191–1193

James A. Wilkinson,* Stephen B. Rossington, John Leonard and Nigel Hussein

**Synthetic methods for γ -lactam and pyrrole derivatives exploiting a three-component coupling strategy**

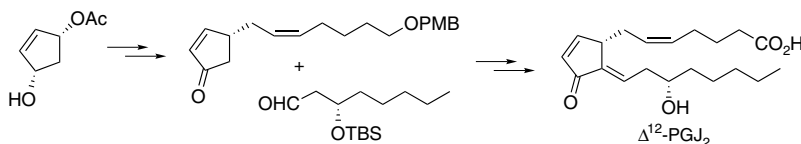
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Blandine Clique, Colas Anselme, Daniela Otto, Nuno Monteiro and Geneviève Balme*

**Total synthesis of Δ^{12} -PGJ₂, 15-deoxy- $\Delta^{12,14}$ -PGJ₂, and related compounds**

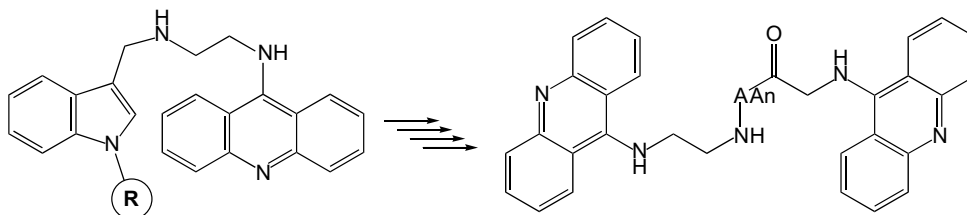
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Hukum P. Acharya and Yuichi Kobayashi*

**Solid-phase synthesis of head and tail bis-acridinylated peptides**

pp 1203–1205

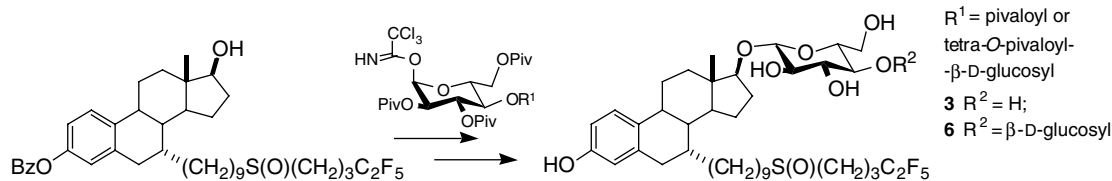
Jaroslav Šebestík, Pavel Matějka, Jan Hlaváček* and Ivan Stibor



Sugar conjugates of fulvestrant (ICI 182,780): efficient general procedures for glycosylation of the fulvestrant core

pp 1207–1210

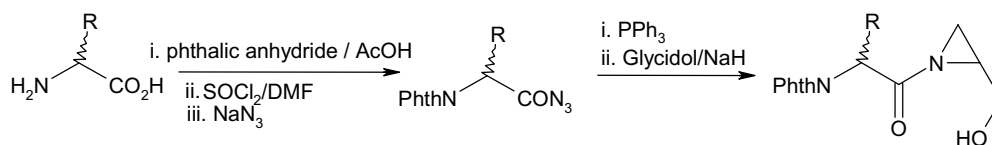
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The synthesis of *N*-acyl-2-hydroxymethyl aziridines of biological interest

pp 1211–1213

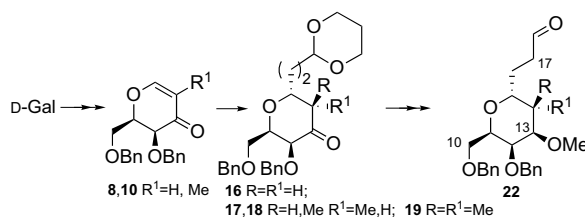
W. Medjahed, A. Tabet Zatl, J. Kajima Mulengi,* F. Z. Baba Ahmed and H. Merzouk



Synthesis of model ring systems related to C10–C18 analogues of the mycalamides/theopederins

pp 1215–1217

John M. Gardiner,* Richard Mills and Thomas Fessard



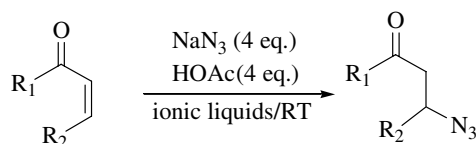
Stereoselective conjugate addition to *D*-Gal-derived pyranones (**8**, **10**) provides **16–19** with the C10, C11, C14, C15 stereochemistry of the mycalamides. Four analogues of the C13 epimeric series bearing no, one or two methyls at C14 are prepared.



The first ionic liquids promoted conjugate addition of azide ion to α,β -unsaturated carbonyl compounds

pp 1219–1221

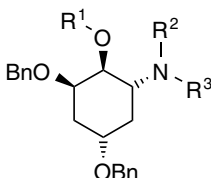
Li-Wen Xu, Lyi Li, Chun-Gu Xia,* Shao-Lin Zhou and Jing-Wei Li



Bis-benzyl protected 6-amino cyclitols are poisonous to Pd/C catalysed hydrogenolysis of benzyl ethers

pp 1223–1226

M. Bashir-Uddin Surfraz, Mahmoud Akhtar and Rudolf K. Allemann*

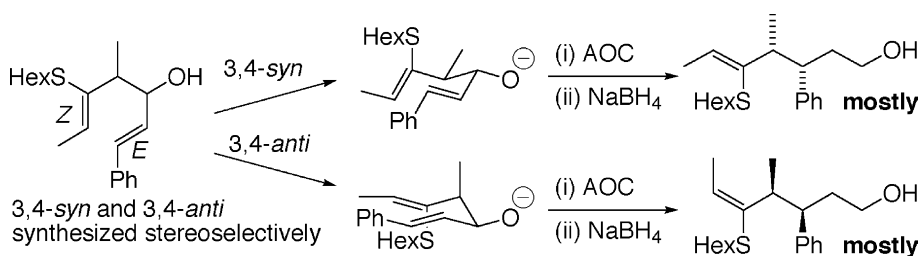


Pd/C and Pd(OH)₂/C catalysts are both poisoned by bis-benzyl protected 6-aminocyclitols thereby inhibiting the hydrogenolysis of benzyl ethers but removing *N*-Cbz groups chemoselectively.

Stereoselectivity in the anionic oxy-Cope rearrangement of acyclic vinyl sulfides

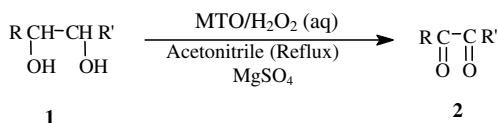
pp 1227–1231

C. Andrew Woodland, Graham C. Crawley and Richard C. Hartley*

**Methyltrioxorhenium catalyzed oxidation of 1,2-diols to 1,2-diketones using hydrogen peroxide as oxidant**

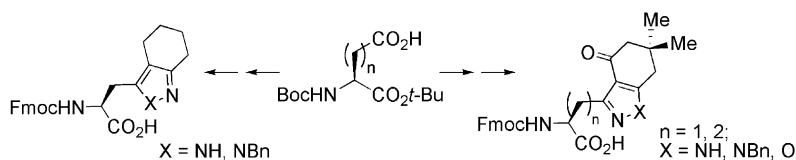
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Suman L. Jain, Vishal B. Sharma and Bir Sain*

**Expedient synthesis of a novel class of pseudoaromatic amino acids: tetrahydroindazol-3-yl- and tetrahydrobenzisoaxazol-3-ylalanine derivatives**

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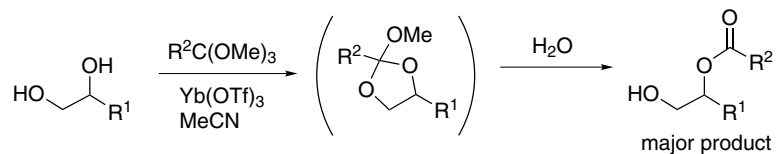
Richard J. Middleton, Sarah L. Mellor, Siri Ram Chhabra, Barrie W. Bycroft and Weng C. Chan*



A novel and efficient method for inside selective esterification of terminal vic-diols

pp 1243–1246

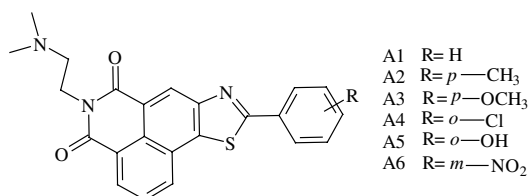
Masahiro Ikejiri, Kazuyuki Miyashita, Tomoyuki Tsunemi and Takeshi Imanishi*



Naphthalimide–thiazoles as novel photonucleases: molecular design, synthesis, and evaluation

pp 1247–1251

Yonggang Li, Yufang Xu, Xuhong Qian* and Baoyuan Qu

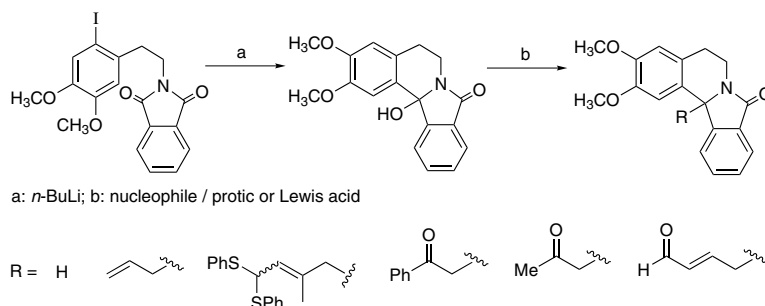


A new family of photonucleases, naphthalimide–thiazole was designed and evaluated.

Tandem Parham cyclisation— α -amidoalkylation reaction in the synthesis of the isoindolo[1,2-*a*]isoquinoline skeleton of nuevamine-type alkaloids

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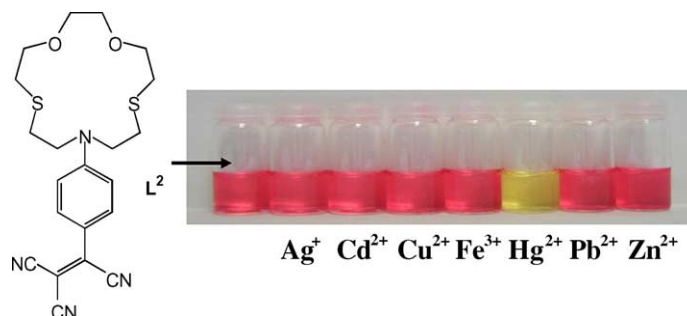
Iñaki Osante, Esther Lete and Nuria Sotomayor*



Electro-optical triple-channel sensing of metal cations via multiple signalling patterns

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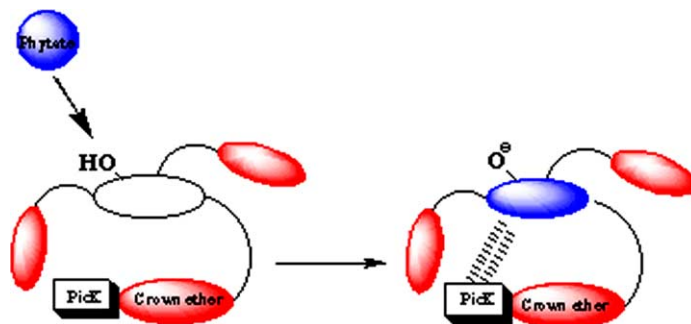
Diego Jiménez, Ramón Martínez-Máñez,* Félix Sancenón and Juan Soto



A 'naked-eye' chemosensor system for phytate

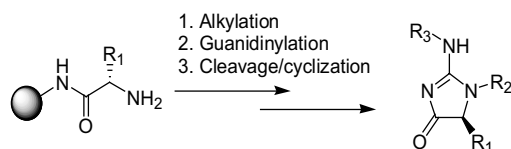
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Jeroni Morey,* Maria Orell, Miquel Àngel Barceló, Pere M. Deyà, Antoni Costa and Pablo Ballester

Solid-phase synthesis of 1,5-substituted 2-(*N*-alkylamino)-imidazolidin-4-ones

pp 1267–1269

Jizhen Li, Zhenfa Zhang and Erkang Fan*

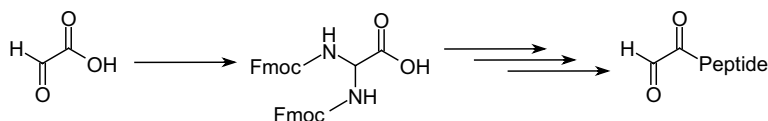


Starting from resin-bound amino acids, the desired final products can be obtained from three mild reaction steps. The synthetic route is compatible with protected amino acid side chains.

A novel α,α' -diaminoacetic acid derivative for the introduction of the α -oxo aldehyde functionality into peptides

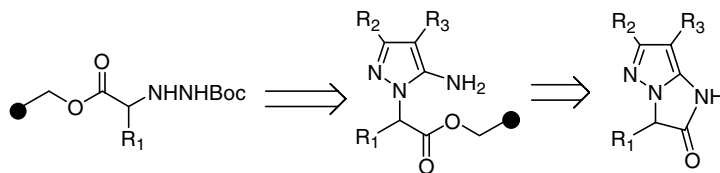
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Samia Far and Oleg Melnyk*

Solid-phase approach towards the synthesis of functionalized imidazo[1,2-*b*]pyrazol-2-ones

pp 1275–1277

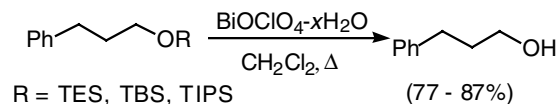
Benjamin E. Blass,* Anil Srivastava, Keith R. Coburn, Amy L. Faulkner, John J. Janusz, James M. Ridgeway and William L. Seibel



BiOClO₄-mediated deprotection of silyl ethers

pp 1279–1281

R. David Crouch,* Candice A. Romany, Anna C. Kreshock, Karina A. Menconi and Jennifer L. Zile

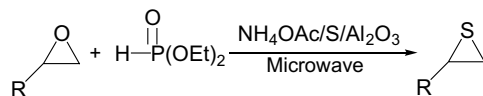


TES- and TBS-protected alcohols undergo deprotection in good to excellent yield upon heating with 1equiv of BiOClO₄·xH₂O in CH₂Cl₂. TBDPS- and TIPS-protected 2° alcohols are more resistant to deprotection. The use of this method for selective desilylation is, however, limited to the deprotection of alkyl silyl ethers in the presence of TBDPS-protected phenols.

A new, efficient, and simple method for the synthesis of thiiranes from epoxides under solvent-free conditions

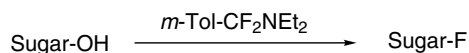
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Babak Kaboudin* and Hamid Norouzi

**Selective synthesis of fluorinated carbohydrates using *N,N*-diethyl- α,α -difluoro-(*m*-methylbenzyl)amine**

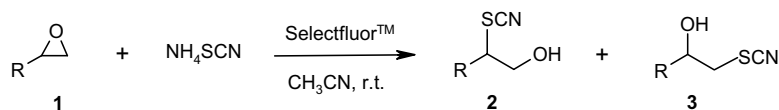
pp 1287–1289

Shingo Kobayashi, Atushi Yoneda, Tsuyoshi Fukuhara and Shoji Hara*

**Selectfluor™: a novel and efficient reagent for the synthesis of β -hydroxy thiocyanates**

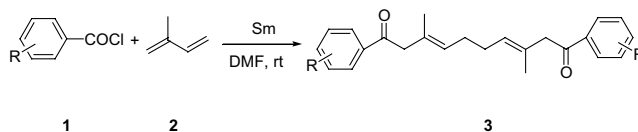
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J. S. Yadav,* B. V. S. Reddy and Ch. Srinivas Reddy



Stereo- and regiospecific four-molecule reaction of aryl chlorides with *iso*-pentylene: direct formation of (*E*)- β,γ -unsaturated carbonyl compounds promoted by samarium metal in DMF pp 1295–1298

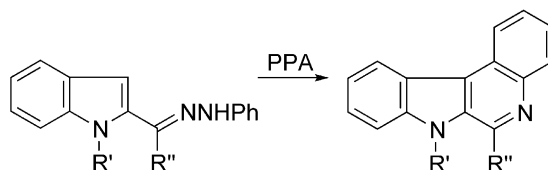
Yongjun Liu and Yongmin Zhang*



Promoted by Sm in DMF, aryl chlorides react readily with *iso*-pentylene in a four-molecule manner, which offers an efficient stereo- and regiospecific synthesis of (*E*)- β,γ -unsaturated ketones and also provides a facile method for the construction of monoterpene skeleton without pretreating or activating metallic Sm.

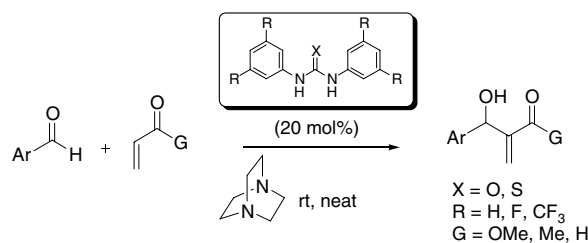
An unexpected rearrangement of 3-unsubstituted-2-acyl substituted indole phenylhydrazones. A new method for benz[*c*]carboline synthesis pp 1299–1300

Olga V. Baranova* and Sergey V. Dubovitskii



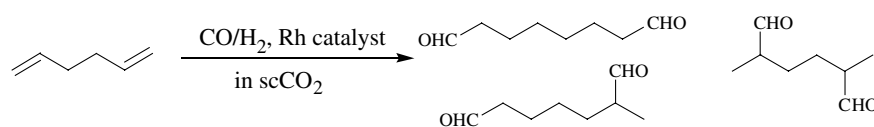
Acceleration of the DABCO-promoted Baylis–Hillman reaction using a recoverable H-bonding organocatalyst pp 1301–1305

Declan J. Maher and Stephen J. Connon*



Rhodium–tris(3,5-bis(trifluoromethyl)phenyl)phosphine catalyzed hydroformylation of dienes to dialdehydes in supercritical carbon dioxide with high activity pp 1307–1310


Shin-ichiro Fujita, Shinya Fujisawa, Bhalchandra M. Bhanage and Masahiko Arai*



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*Corresponding author

+ Supplementary data available via ScienceDirect



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