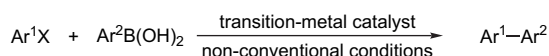


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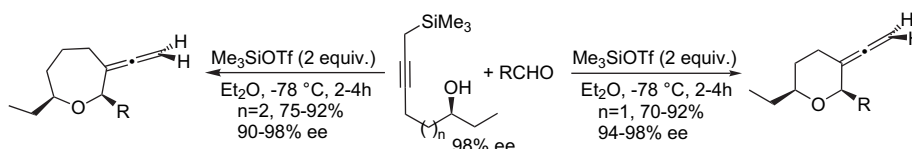
- Non-conventional methodologies for transition-metal catalysed carbon–carbon coupling: a critical overview. Part 2: The Suzuki reaction** pp 3047–3101
 Francisco Alonso*, Irina P. Beletskaya*, Miguel Yus*



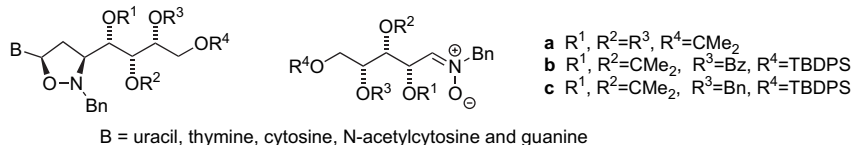
Non-conventional conditions: alternative coupling partners, ligandless, solid support, scCO_2 , ionic liquids, fluorous media, water, microwave, ultrasound, micelles, microreactors, ball mill.

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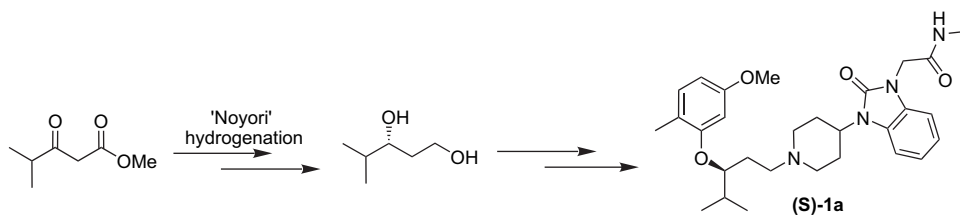
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Asymmetric synthesis of *N*-3 substituted phenoxypropyl piperidine benzimidazol-2-one derivatives, potent and selective NOP agonists

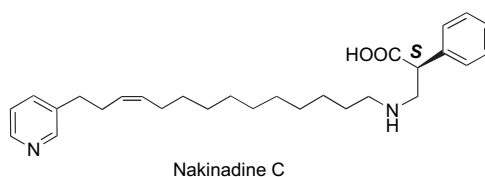
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John K. Clark, Philip S. Jones, Ronald Palin*, Georgina Rosair, Mark Weston


Nakinadines B–F: new pyridine alkaloids with a β -amino acid moiety from sponge *Amphimedon* sp.

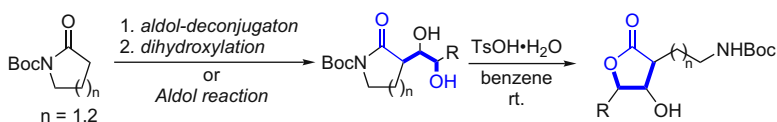
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An acid-catalyzed ring-switch reaction of lactams to lactones: concise synthesis of 2,4-dialkyl-3-hydroxybutanolides

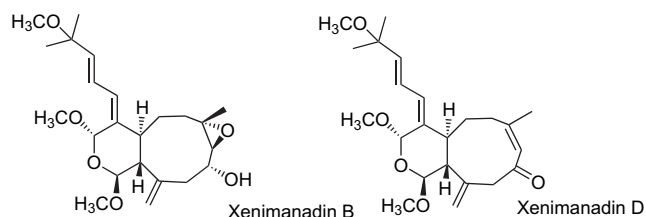
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Chiaki Yamauchi, Masami Kuriyama, Rumiko Shimazawa, Tsumoru Morimoto, Kiyomi Kakiuchi, Ryuichi Shirai*


Xenimanadins A–D, a family of xenicane diterpenoids from the Indonesian soft coral *Xenia* sp.

pp 3141–3146

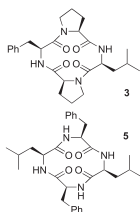
Ernesto Fattorusso, Adriana Romano, Orazio Tagliatela-Scafati*, M. Janib Achmad, Giorgio Bavestrello, Carlo Cerrano



Cyclic tetrapeptides from marine bacteria associated with the seaweed *Diginea* sp. and the sponge *Halisarca ectofibrosa*

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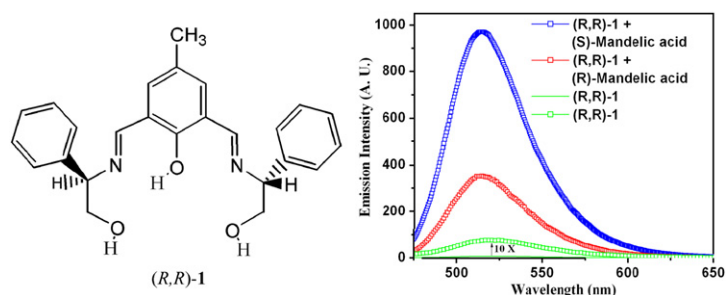


The structure and stereochemistry of four new cyclic peptides **3–6** have been deduced by 2D NMR spectroscopic analysis and by synthesis of peptide **5**.

A highly enantioselective chiral Schiff-base fluorescent sensor for mandelic acid

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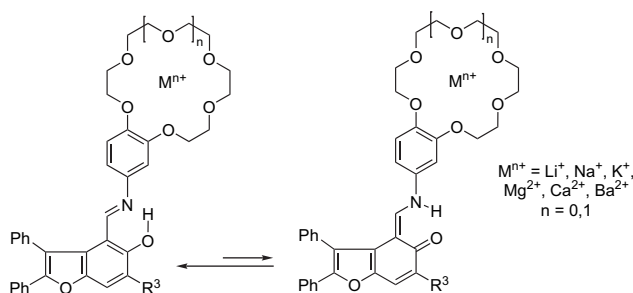
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Tautomeric crown-containing chemosensors for alkali-earth metal cations

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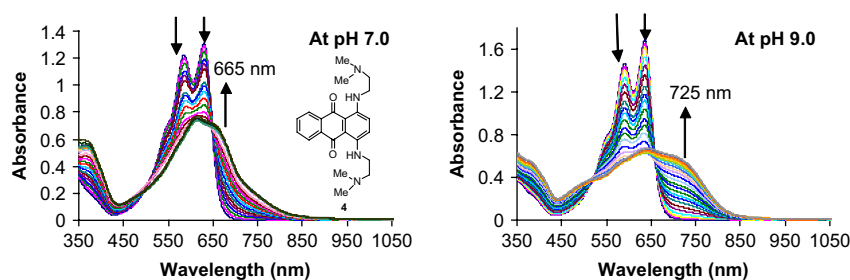
Alexander D. Dubonosov*, Vladimir I. Minkin, Vladimir A. Bren, Evgenii N. Shepelenko, Alexey V. Tsukanov, Andrey G. Starikov, Gennadii S. Borodkin



Near-IR region absorbing 1,4-diaminoanthracene-9,10-dione motif based ratiometric chemosensors for Cu²⁺

pp 3168–3175

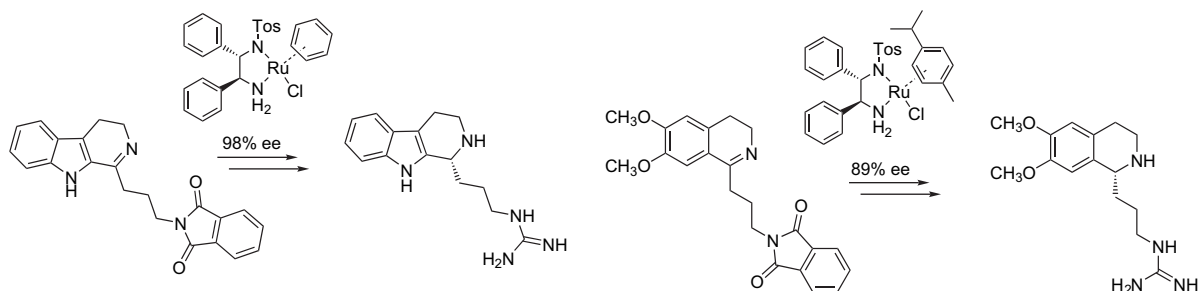
Navneet Kaur, Subodh Kumar*



Enantioselective synthesis of (+)-tryptargine and (+)-crispine E

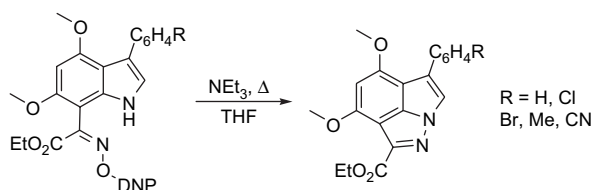
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Stefan J. Czarnocki, Krystyna Wojtasiewicz, Adam P. Jóźwiak, Jan K. Maurin, Zbigniew Czarnocki*, Józef Drabowicz*

**Mechanisms of cyclisation of indolo oxime ethers. Part 2: Formation of ethyl 6,8-dimethoxypyrazolo[4,5,1-*hi*]indole-5-carboxylates**

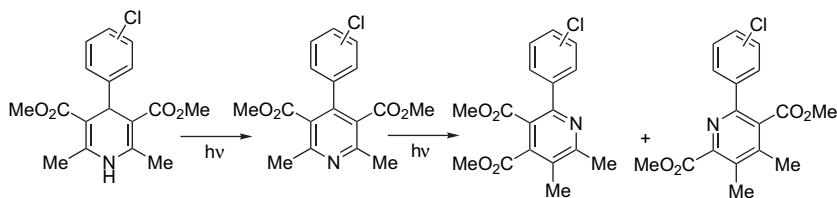
pp 3183–3189

Kylie A. Clayton, David StC. Black, Jason B. Harper*

**Photochemistry of Hantzsch 1,4-dihydropyridines and pyridines**

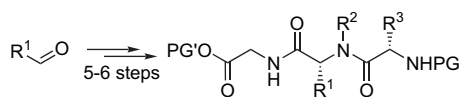
pp 3190–3196

Elisa Fasani*, Angelo Albini, Mariella Mella

**Toward stereocontrolled, chemoenzymatic synthesis of unnatural peptides**

pp 3197–3203

Wiktor Szymanski, Ryszard Ostaszewski*



8 examples

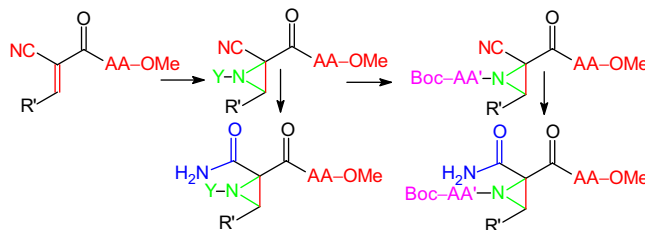
R¹ = C₆H₅CH₂, (CH₃)₂CHCH₂R² = H, CH₃R³ = H, CH₃, (CH₃)₂CHCH₂

PG, PG' = compatible or orthogonal protecting groups

Solution-phase synthesis of 2-cyano and 2-amido aziridinyl peptides

pp 3204–3211

Stefania Fioravanti*, Davide Massari, Alberto Morreale, Lucio Pellacani*, Paolo A. Tardella*

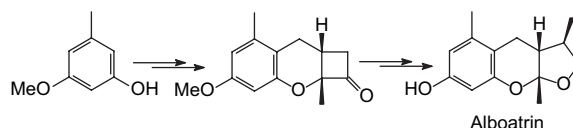


Starting from a library of 2-L-α-amino acyl (*E*)-acrylonitriles, different short 2-cyano and 2-amido aziridinyl peptides, potential protease inhibitors, were obtained under parallel solution-phase conditions. The transformations include careful selection of conditions for aziridine deprotection and cyano group partial hydrolysis.

**Total synthesis of alboatrin, a phytotoxic metabolite from *Verticillium alboatrum***

pp 3212–3216

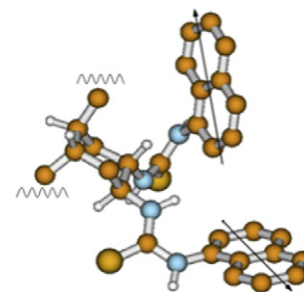
Bidyut Biswas, Debayan Sarkar, Ramanathapuram V. Venkateswaran*

**Chiral cyclohexane based fluorescent chemosensors for enantiomeric discrimination of aspartate**

pp 3217–3224

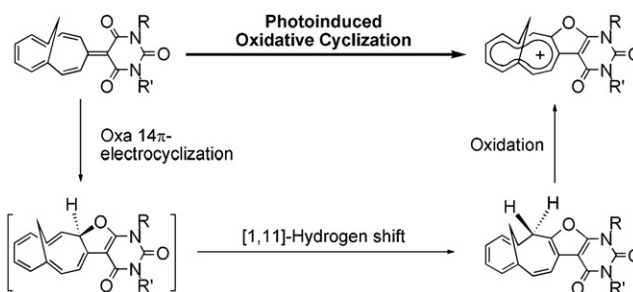
Ana M. Costero*, Manuel Colera, Pablo Gaviña, Salvador Gil, Miklós Kubinyi, Krisztina Pál, Mihály Kállay

Some new chiral cyclohexyl based fluorescent anion receptors have been synthesized and their absolute configuration has been determined by using circular dichroism (CD). Complexation experiments have been carried out with several dicarboxylates, and stoichiometries and complexation constants for the corresponding complexes have been determined. The ability of these ligands for discriminating chiral dicarboxylates has been studied and the best results have been obtained with TMA aspartate.

**Application and details of photoinduced oxidative cyclization of 5-(4',9'-methanocycloundeca-2',4',6',8',10'-pentaenylidene)pyrimidine-2,4,6(1,3,5*H*)-triones and related compounds**

pp 3225–3231

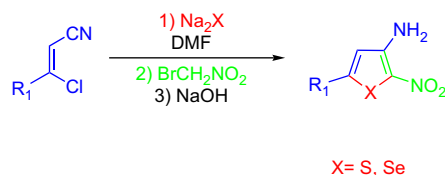
Shin-ichi Naya, Yohei Yamaguchi, Makoto Nitta*



One-pot synthesis of substituted 3-amino-2-nitrothiophenes and selenophenes

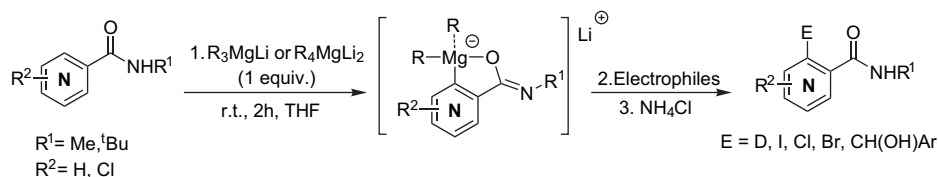
pp 3232–3235

David Thomae, Juan Carlos Rodriguez Dominguez, Gilbert Kirsch*, Pierre Seck

**Deprotonation of pyridine carboxamides using lithium magnesiate bases**

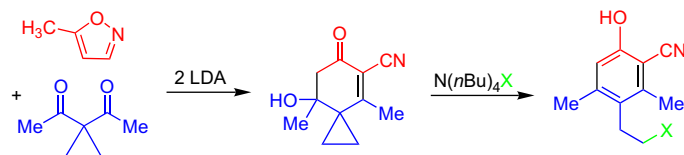
pp 3236–3245

Haçan Hawad, Omar Bayh, Christophe Hoarau, Francois Trécourt, Guy Quéguiner, Francis Marsais*

**Synthesis and reactions of functionalized spirocyclopropanes by cyclization of dilithiated β -ketosulfones, α -cyanoacetone and diethyl 2-oxopropylphosphonate with 1,1-diacetylcyclopropane**

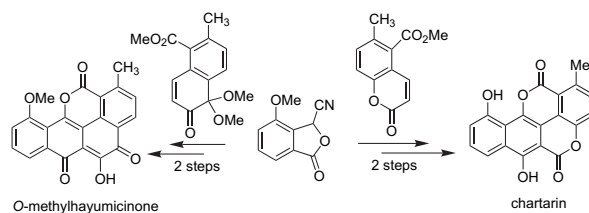
pp 3246–3252

Nasir Rasool, Muhammad A. Rashid, Helmut Reinke, Christine Fischer, Peter Langer*

**Tandem annulation strategy for the convergent synthesis of benzonaphthopyranones: total synthesis of chartarin and *O*-methylhayumicinone**

pp 3253–3267

Sutapa Ray, Asit Patra, Dipakranjan Mal*



Chartarin and *O*-methylhayumicinone have been regiospecifically synthesized via a novel tandem annulation with 4-methoxy-3-cyanoisobenzofuran-(3*H*)-1-one.

*Corresponding author

 Supplementary data available via ScienceDirect



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