



Tetrahedron Vol. 65, Issue 34, 2009

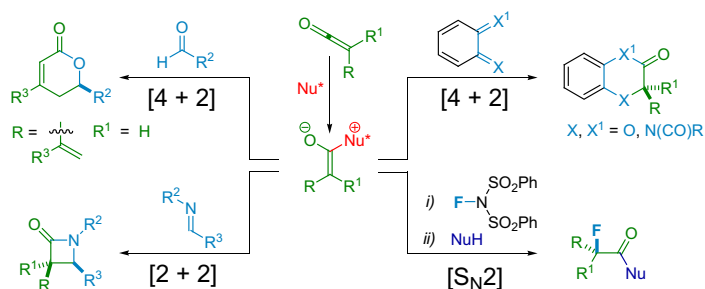
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Daniel H. Paull, Anthony Weatherwax, Thomas Lectka*

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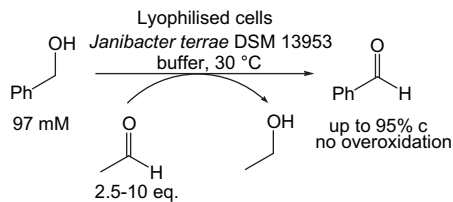


ARTICLES

Biocatalytic oxidation of benzyl alcohol to benzaldehyde via hydrogen transfer

Thomas Orbegozo, Iván Lavandera, Walter M.F. Fabian, Barbara Mautner, Johannes G. de Vries, Wolfgang Kroutil*

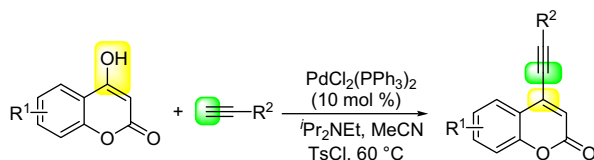
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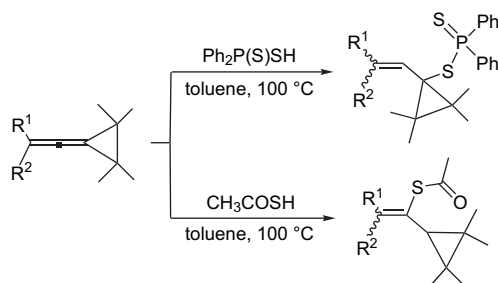
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Addition of diphenylphosphinodithioic acid and thioacetic acid with vinylidenecyclopropanes: reversed regioselectivities

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Wei Li, Min Shi*

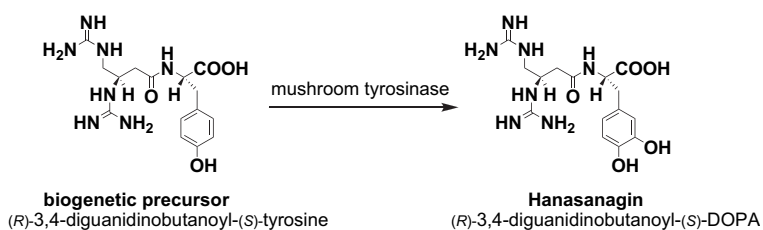


The reactions of vinylidenecyclopropanes with diphenylphosphinodithioic acid or thioacetic acid produce the corresponding 1,2-addition products in good to high yields in toluene upon heating at 100 °C within 1 h.


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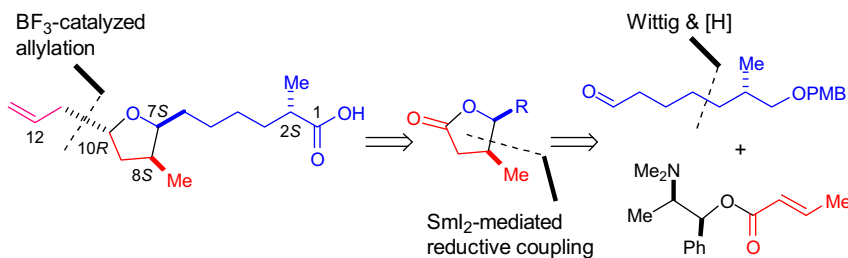
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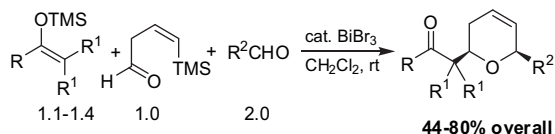
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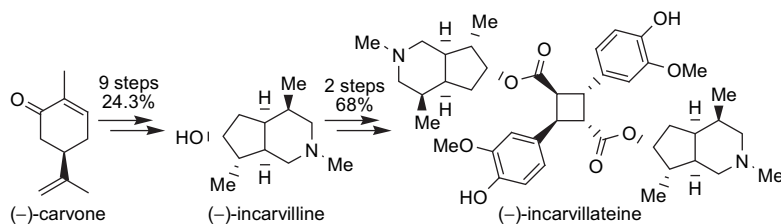
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Robert J. Hinkle*, Yajing Lian, Lee C. Speight, Heather E. Stevenson, Melissa M. Sprachman, Lauren A. Katkish, M. Christa Mattern

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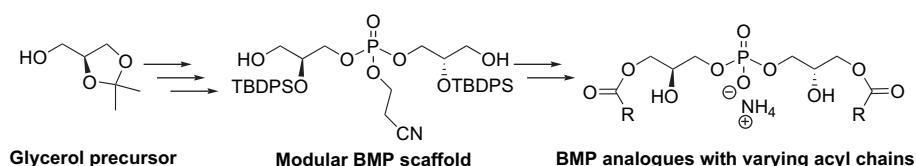
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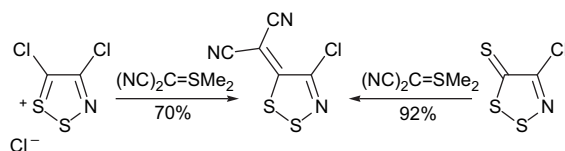
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**The reaction of 4,5-dichloro-1,2,3-dithiazolium chloride with dimethylsulfonium dicyanomethylide: an improved synthesis of (4-chloro-1,2,3-dithiazolylidene)malononitrile**

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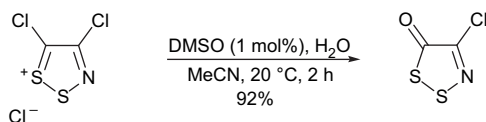
Andreas S. Kalogirou, Panayiotis A. Koutentis*



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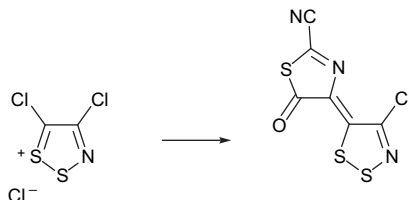
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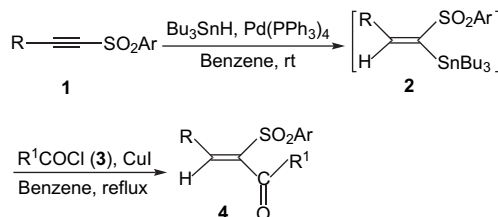
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A facile stereoselective synthesis of (Z)- α -arylsulfonyl- α,β -unsaturated ketones

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Shengyong You, Jianying Li, Mingzhong Cai*

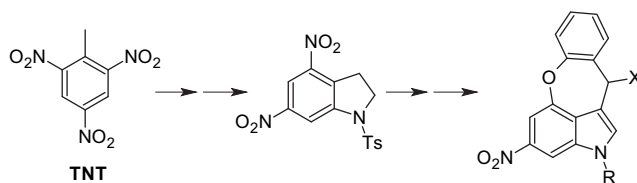


An efficient and stereoselective one-pot method for the synthesis of (Z)- α -arylsulfonyl- α,β -unsaturated ketones has been developed by the tandem hydro-stannylation-Stille coupling reactions of acetylenic sulfones with tributyltin hydride and acyl chlorides.

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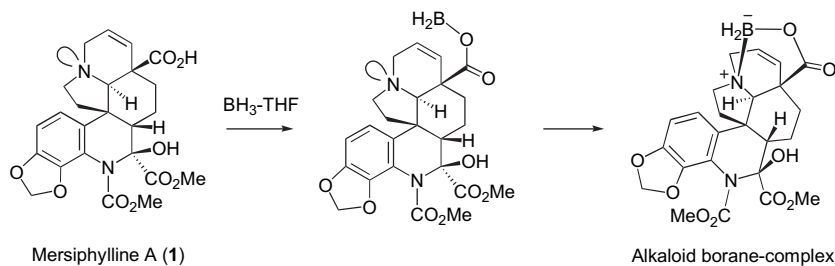
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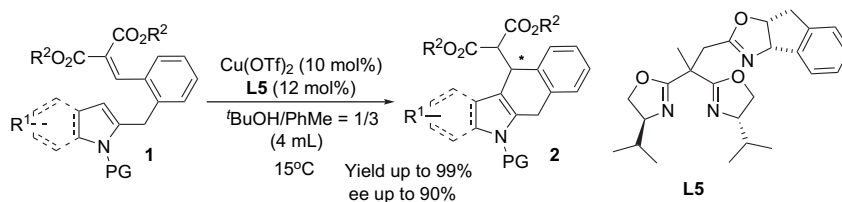
Yun-Yee Low, G. Subramaniam, Kuan-Hon Lim, Richard C.S. Wong, Ward T. Robinson, Toh-Seok Kam*



Trisoxazoline/Cu(II)-catalyzed asymmetric intramolecular Friedel–Crafts alkylation reaction of indoles

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Jiao-Long Zhou, Meng-Chun Ye, Xiu-Li Sun, Yong Tang*



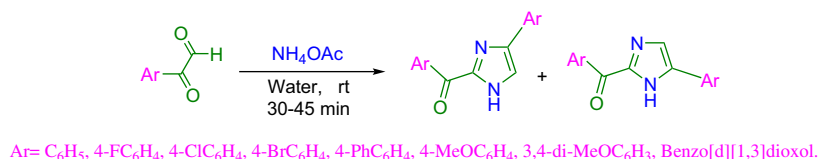
An intramolecular Friedel–Crafts alkylation reaction of indoles has been developed and up to 90% ee is achieved in high to excellent yields by employing trisoxazoline/copper(II) as a catalyst.



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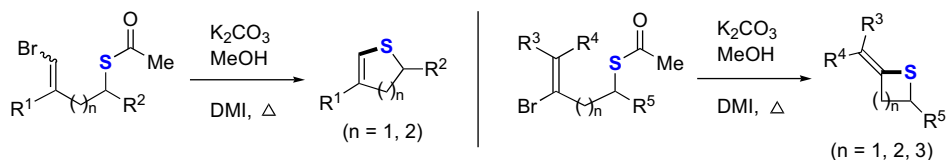
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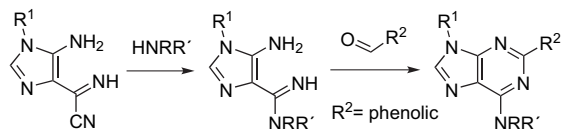
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Synthesis and in vitro activity of 6-amino-2,9-diarylpurines for *Mycobacterium tuberculosis*

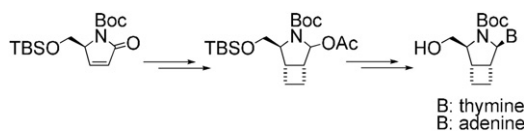
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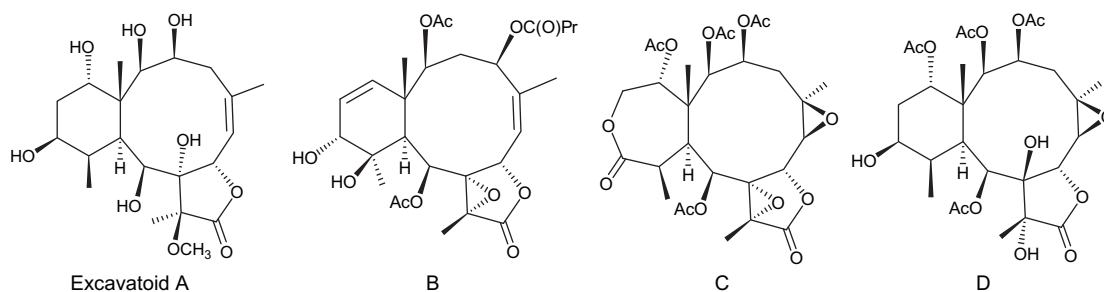
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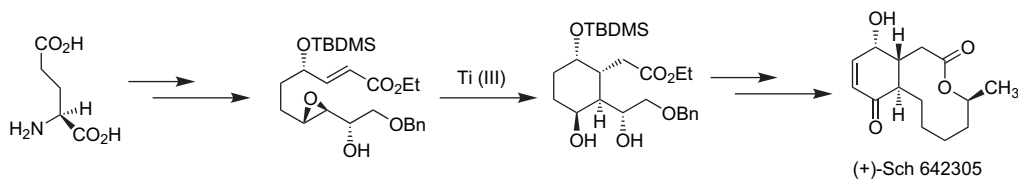
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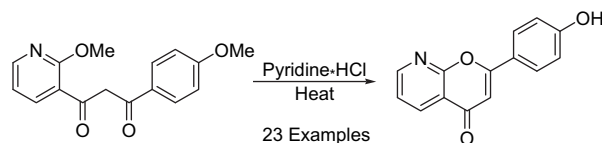
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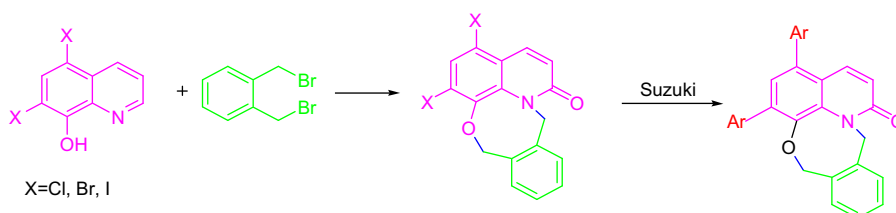
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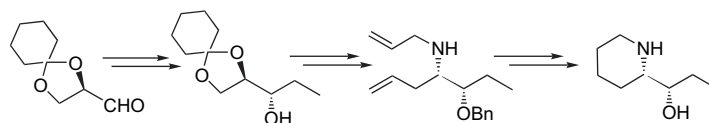
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**A novel stereoselective synthesis of (–)-β-conhydrine from (R)-2,3-O-cyclohexylidene glyceraldehyde**

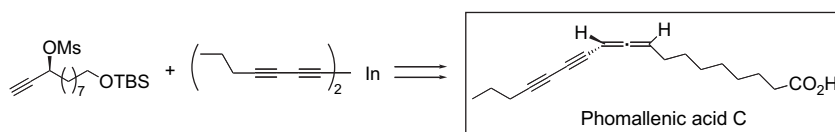
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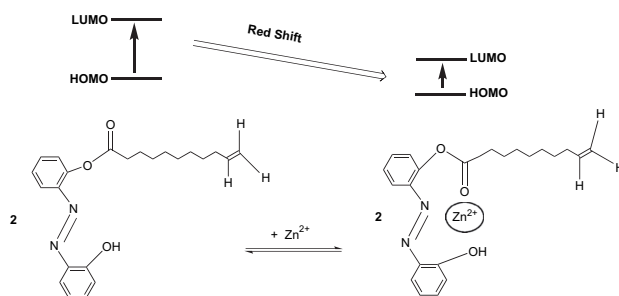
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Jing Wang, Chang-Sik Ha*



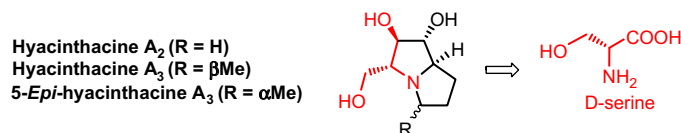
A new colorimetric fluorescent turn-on molecular probe that responds to zinc ions using an azobenzene-containing fluorescent chemosensor molecule **1** was presented.



Stereoselective syntheses of the glycosidase inhibitors hyacinthacine **A**₂, hyacinthacine **A**₃ and 5-*epi*-hyacinthacine **A**₃

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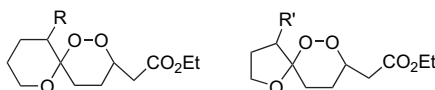
Celia Ribes, Eva Falomir, Miguel Carda, J. Alberto Marco*



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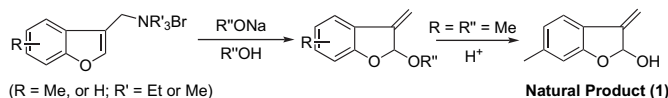
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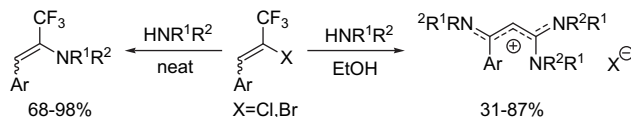
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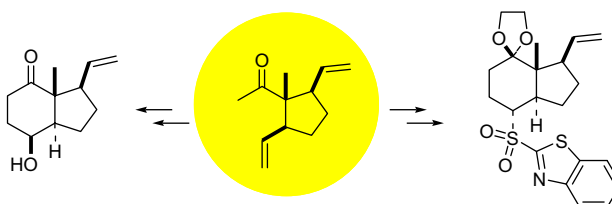
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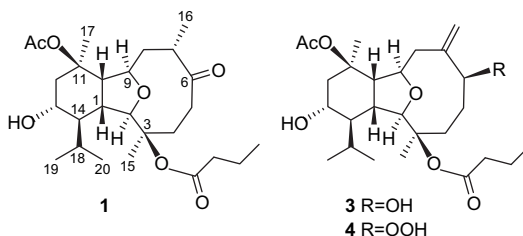
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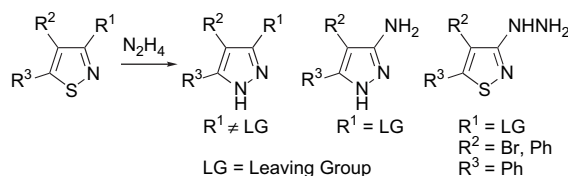
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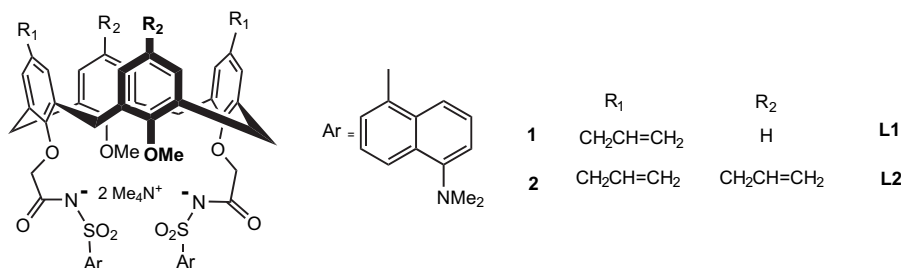
Heraklidia A. Ioannidou, Panayiotis A. Koutentis*



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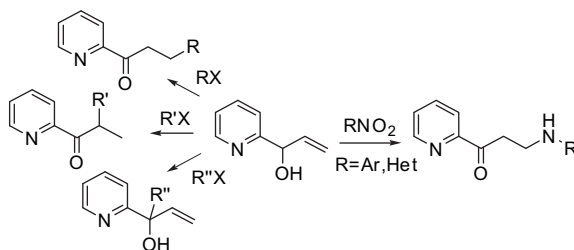
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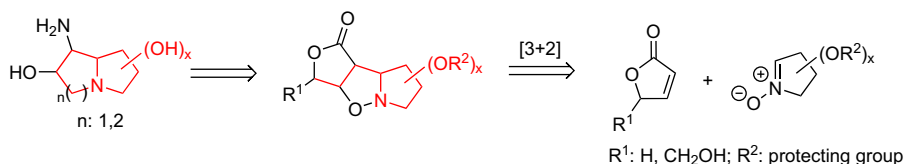
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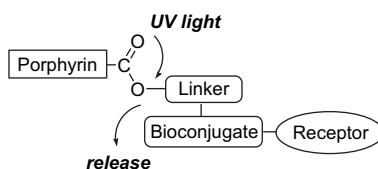
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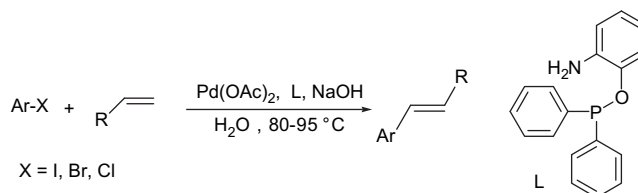
Mohd Bakri Bakar, Michael Oelgemöller, Mathias O. Senge*



2-Aminophenyl diphenylphosphinite as a new ligand for heterogeneous palladium-catalyzed Heck–Mizoroki reactions in water in the absence of any organic co-solvent

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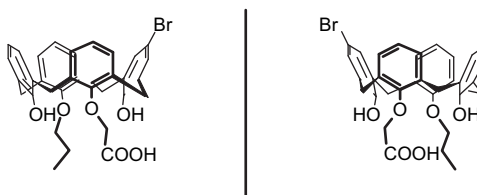
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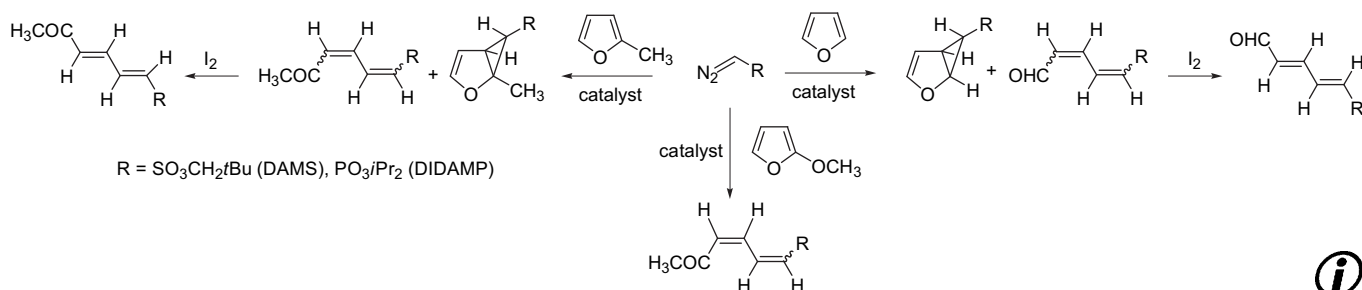
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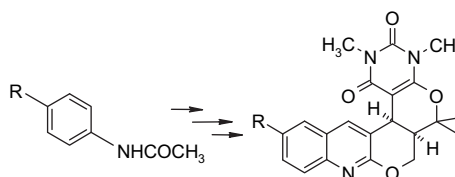
Maura Marinozzi, Maria Carmela Fulco, Laura Amori, Massimiliana Fiumi, Roberto Pellicciari*



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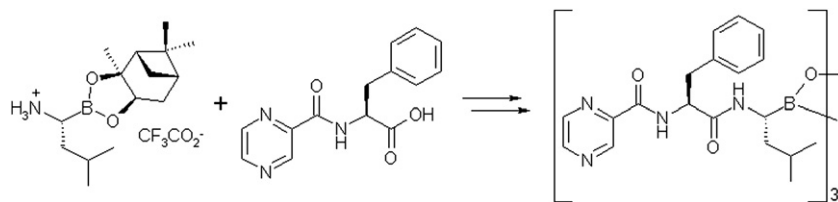
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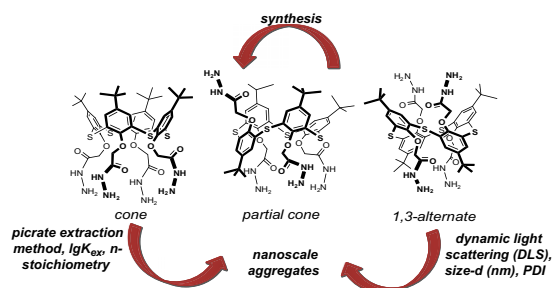
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Supramolecular self-assemblies of stereoisomers of *p*-*tert*-butyl thiacalix[4]arenes functionalized with hydrazide groups at the lower rim with some metal cations

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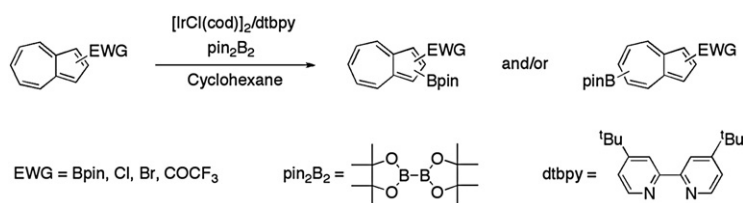
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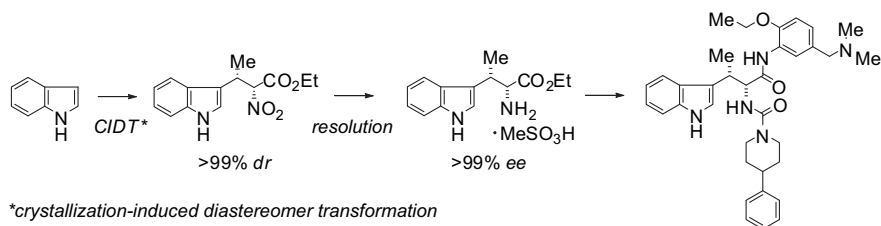
Masayuki Fujinaga, Toshihiro Murafuji*, Kei Kurotobi, Yoshikazu Sugihara*



A practical synthesis of enantiopure β -methyltryptophan ethyl ester for a preparation of diabetes drug

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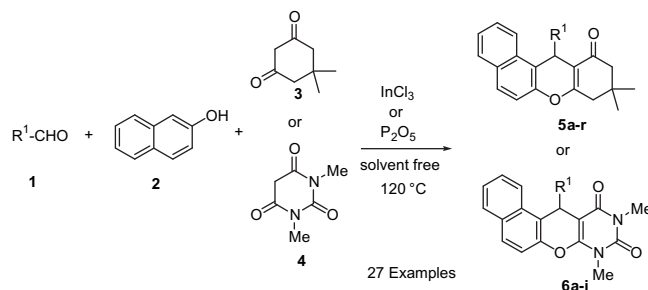
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An efficient one-pot synthesis of tetrahydrobenzo[*a*]xanthene-11-one and diazabenzo[*a*]anthracene-9,11-dione derivatives under solvent free condition

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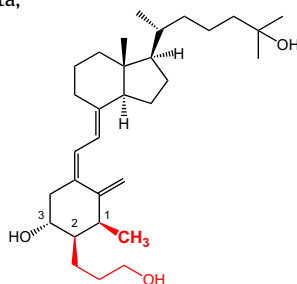
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Synthesis of a 1 α -C-methyl analogue of 25-hydroxyvitamin D₃: interaction with a mutant vitamin D receptor Arg274Leu

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Shinobu Honzawa, Naoyuki Takahashi, Atsushi Yamashita, Takayuki Sugiura, Masaaki Kurihara, Midori A. Arai, Shigeaki Kato, Atsushi Kittaka*

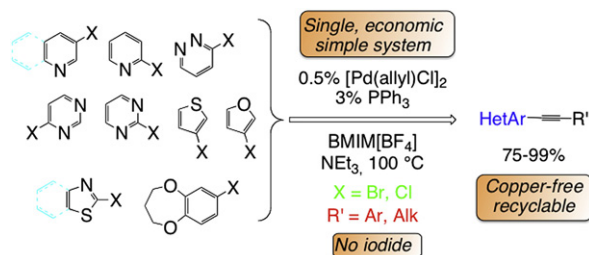


Stereoselective synthesis of the A-ring part of the novel vitamin D analogue of 2 α -(3-hydroxypropyl)-1 α -methyl-25-hydroxyvitamin D₃ from D-galactose for a mutant VDR (Arg274Leu) to rescue VDR binding affinity of the ligand is reported.

A straightforward copper-free palladium methodology for the selective alkynylation of a wide variety of S-, O-, and N-based mono- and diheterocyclic bromides and chlorides

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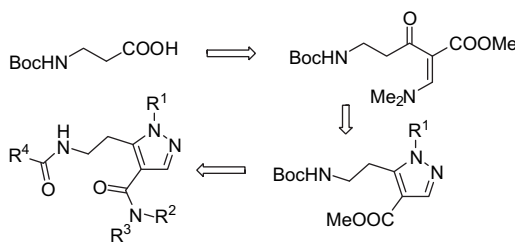
Samer Saleh, Michel Picquet, Philippe Meunier, Jean-Cyrille Hierso*



A synthesis of 1-substituted 5-[2-(acylamino)ethyl]-1H-pyrazole-4-carboxamides

pp 7151–7162

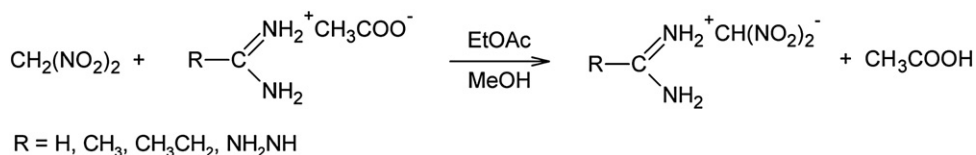
David Kralj, Miha Friedrich, Uroš Grošelj, Sonja Kiraly-Potpara, Anton Meden, Jernej Waggener, Georg Dahmann, Branko Stanovnik, Jurij Svete*



Organic salts of dinitromethane

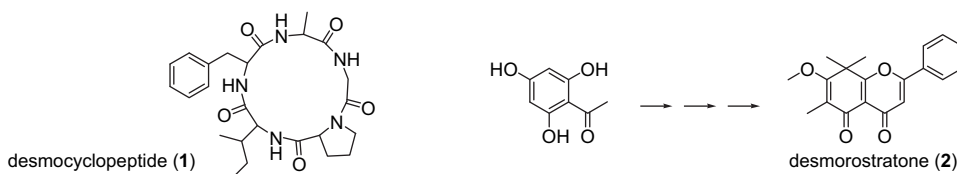
pp 7163–7170

Zdeněk Jalový*, Jan Ottis, Aleš Růžicka, Antonín Lyčka, Nikolaj V. Latypov

**Novel cyclopeptide and unique flavone from *Desmos rostrata*. Total synthesis of desmorostratone**

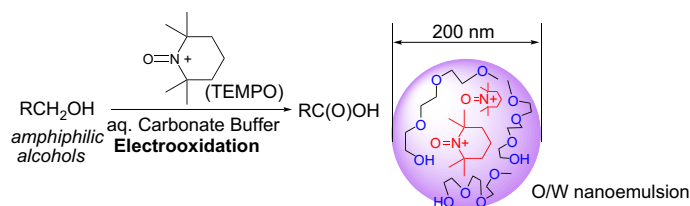
pp 7171–7176

Ngoc Tuan Nguyen, Van Cuong Pham*, Marc Litaudon, Françoise Guéritte, Bernard Bodo, Van Tuyen Nguyen, Van Hung Nguyen*

**Electroorganic synthesis in oil-in-water (O/W) nanoemulsion: TEMPO-mediated electrooxidation of amphiphilic alcohols in water**

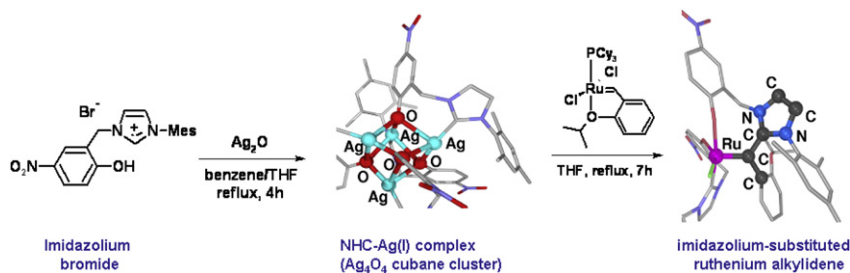
pp 7177–7185

Manabu Kuroboshi, Tomonori Yoshida, Jun Oshitani, Kuniaki Goto, Hideo Tanaka*

**Synthesis of a new bidentate NHC–Ag(I) complex and its unanticipated reaction with the Hoveyda–Grubbs first generation catalyst**

pp 7186–7194

Giovanni Occhipinti, Vidar R. Jensen, Karl Wilhelm Törnroos, Nils Åge Frøystein, Hans-René Bjørsvik*



OTHER CONTENT**Corrigendum****p 7195**

*Corresponding author

 Supplementary data available via ScienceDirect**COVER**

Ketenes (and chiral ketene enolates derived therefrom) serve as versatile intermediates for the synthesis of a wide variety of useful synthetic building blocks and biologically active compounds. Over the past few years alone, more than a dozen fundamentally new asymmetric transformations of ketenes have been published, and in all likelihood the chemical community will witness many more in the near future. Details can be found in Tetrahedron, **2009**, 65, 6771–6803.

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