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REPORT

Biocatalysis as a profound tool in the preparation of highly enantiopure β -amino acids

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Arto Liljeblad* and Liisa T. Kanerva

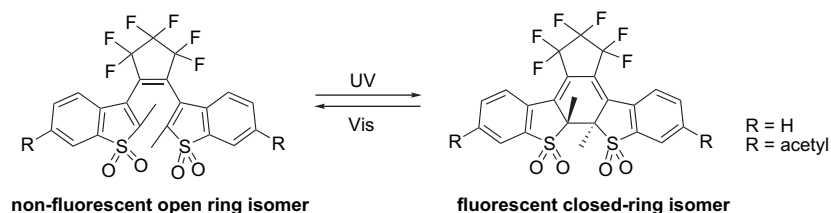
Enzymatic preparations of highly enantiopure β -amino acids have been reviewed. The report contains 212 references.

ARTICLES

Development of highly fluorescent photochromic material with high fatigue resistance

pp 5855–5861

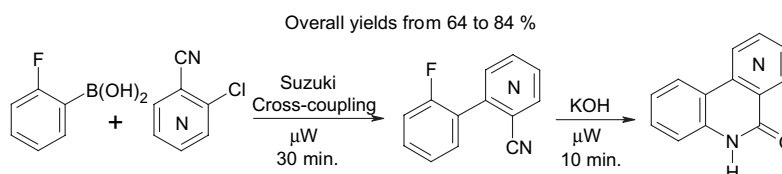
Yong-Chul Jeong, Sung Ik Yang,* Eunyoung Kim* and Kwang-Hyun Ahn*



A new, direct, and efficient synthesis of benzonaphthyridin-5-ones

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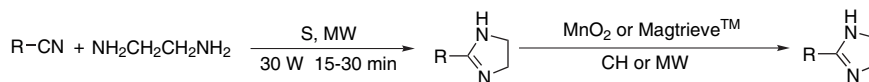
Thomas Cailly, Frédéric Fabis and Sylvain Rault*



Microwave assisted synthesis and crystal structures of 2-imidazolines and imidazoles

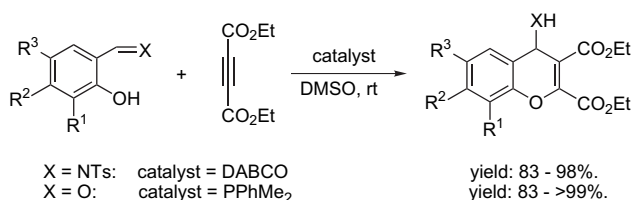
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Antonio de la Hoz,^{*} Ángel Díaz-Ortiz, María del Carmen Mateo, Mónica Moral, Andrés Moreno, José Elguero, Concepción Foces-Foces, Matías L. Rodríguez and Ana Sánchez-Migallón

**Reactions of salicyl *N*-tosylimines or salicylaldehydes with diethyl acetylenedicarboxylate for the synthesis of highly functionalized chromenes**

pp 5875–5882

Ying-Wen Guo, Yong-Ling Shi, Hong-Bin Li and Min Shi^{*}

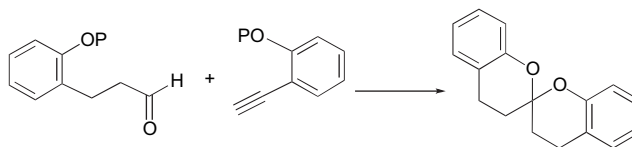


Reactions of diethyl acetylenedicarboxylate with salicyl *N*-tosylimines or salicylaldehydes proceeded smoothly in the presence of DABCO or dimethylphenylphosphine under mild conditions to give the corresponding chromenes in excellent yields.

A facile synthesis of fused aromatic spiroacetals based on the 3,4,3',4'-tetrahydro-2,2'-spirobis(2*H*-1-benzopyran) skeleton

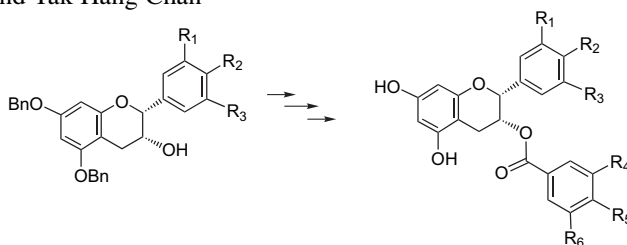
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Margaret A. Brimble,^{*} Christopher L. Flowers, Michael Trzoss and Kit Y. Tsang

**Regiospecific and enantioselective synthesis of methylated metabolites of tea catechins**

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Sheng Biao Wan, Q. Ping Dou and Tak Hang Chan^{*}

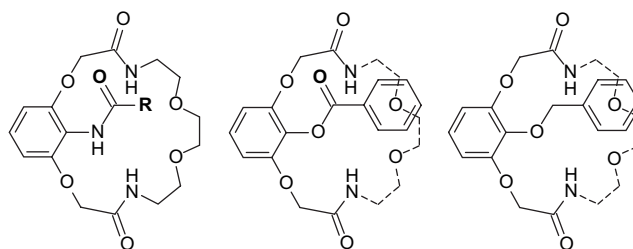


5: R₃=H, R₁=R₂=R₄=R₅=OH, R₆=OMe; 6: R₃=H, R₁=R₂=R₄=R₅=OH, R₆=OMe;
7: R₃=H, R₁=R₂=R₄=OH, R₅=R₆=OMe; 8: R₁=R₂=R₃=R₄=R₅=OH, R₆=OMe;
9: R₁=R₂=R₃=R₄=R₅=OH, R₆=OMe; 10: R₁=R₂=R₃=R₄=OH, R₅=R₆=OMe;
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Structural studies and binding properties of pendant diazacoronands—precursors to macrocyclic compounds of planar chirality

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Jarosław Kalisiak, Ewa Kalisiak and Janusz Jurczak*

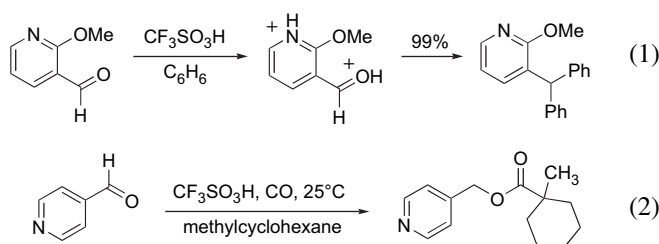


R=Ph, Me, 2-Py

Superacid-catalyzed reactions of pyridinecarboxaldehydes

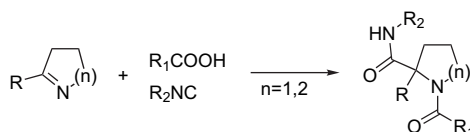
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Douglas A. Klumpp,* Yiliang Zhang, Patrick J. Kindelin and Siufu Lau

**The Ugi reaction with 2-substituted cyclic imines. Synthesis of substituted proline and homoproline derivatives**

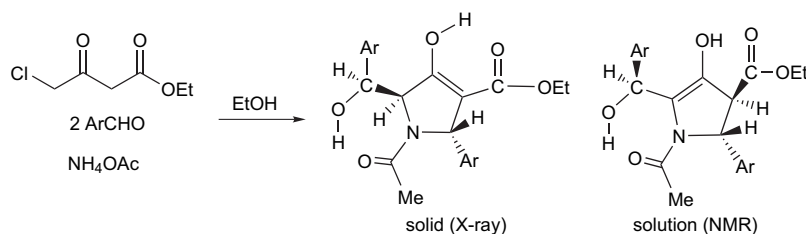
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Valentine G. Nenajdenko,* Anton V. Gulevich and Elizabeth S. Balenkova

**Novel tandem multi-component reactions in the stereoselective synthesis of highly functionalised pyrrolidines**

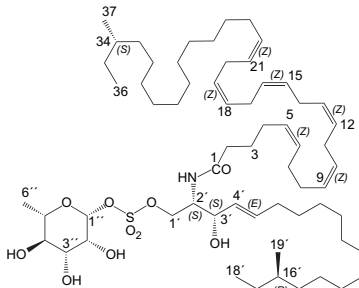
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Natarajan Savitha Devi and Subbu Perumal*



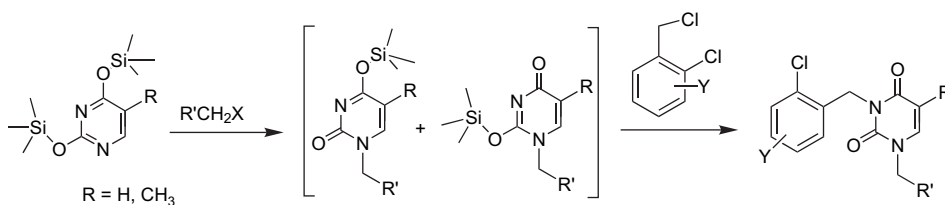
Syriacin, a novel unusual sulfated ceramide glycoside from the freshwater sponge *Ephydatia syriaca* (Porifera, Demospongiae, Spongillidae) pp 5937–5943

Tomáš Řezanka*, Karel Sigler and Valery M. Dembitsky



Unique chlorine effect in regioselective one-pot synthesis of 1-alkyl-/allyl-3-(*o*-chlorobenzyl) uracils: anti-HIV activity of selected uracil derivatives pp 5944–5951

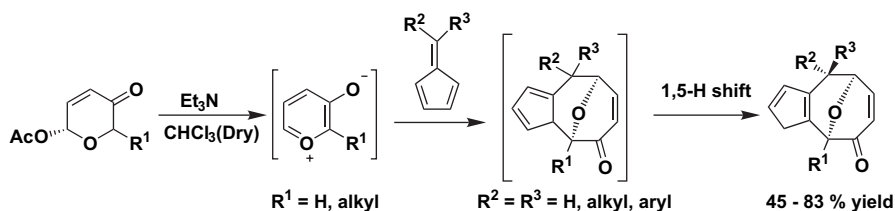
Vaishalli Malik, Palwinder Singh* and Subodh Kumar*



2,4-Bis(trimethylsilyloxy)pyrimidines on reaction with alkyl-/allyl-/benzyl halides, followed by the subsequent addition of *o*-chlorobenzyl chlorides, provide a one-pot synthesis of 1,3-unsymmetrical alkylated pyrimidine-2,4-diones.

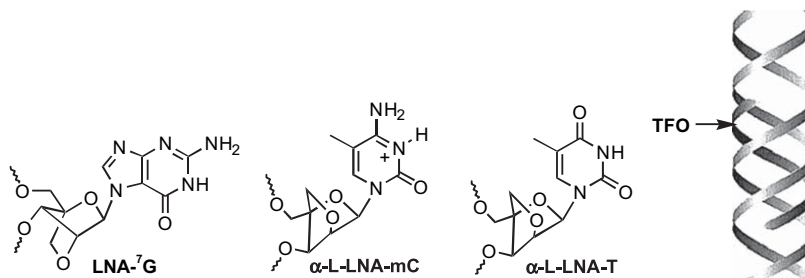
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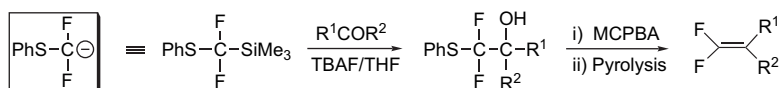
Conformationally restricted triplex-forming oligonucleotides (TFOs). Binding properties of α -L-LNA and introduction of the *N*⁷-glycosylated LNA-guanosine pp 5962–5972

Alexei A. Koshkin*



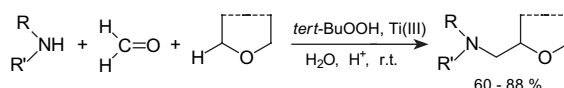
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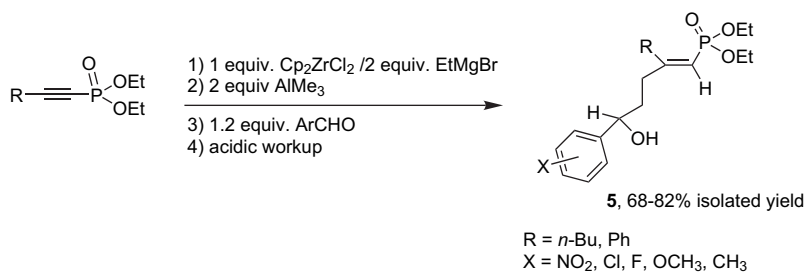
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Angelo Clerici, Rosalba Cannella, Nadia Pastori, Walter Panzeri and Ombretta Porta^{*}



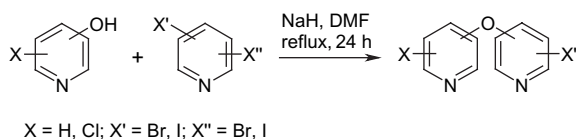
Synthesis of novel 5-hydroxyalkenylphosphonates by addition of aromatic aldehydes to zirconacyclopentenylphosphonates pp 5995–5999

Abed Al Aziz Quntar, David Rosenthal and Morris Srebnik^{*}



Synthesis of novel halo-oxybispyridines, new building blocks in cholinergic medicinal chemistry pp 6000–6005

Anne Sophie Voisin, Alexandre Bouillon, Jean-Charles Lancelot, Aurélien Lesnard and Sylvain Rault^{*}

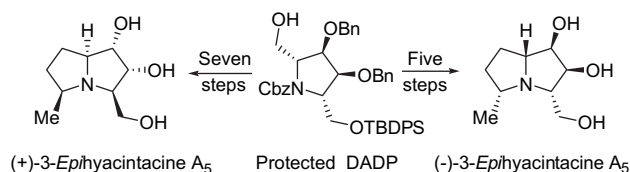


The synthesis of novel halo-oxybispyridines is described, synthetic aspects are described in detail, and examples are set forth within.

Polyhydroxylated pyrrolizidines. Part 8: Enantiospecific synthesis of looking-glass analogues of hyacinthacine A₅ from DADP

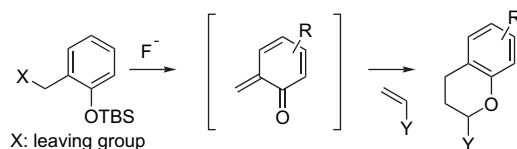
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Isidoro Izquierdo,* María T. Plaza, Juan A. Tamayo, Miguel Rodríguez and Alicia Martos


Mild and rapid method for the generation of *o*-quinone methide intermediates. Synthesis of puupehedione analogues

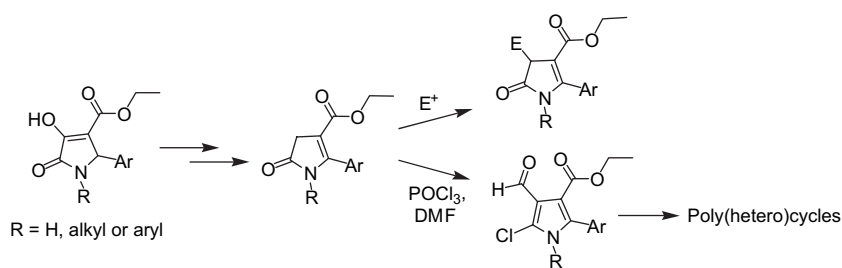
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Alejandro F. Barrero,* José F. Quílez del Moral, M. Mar Herrador, Pilar Arteaga, Manuel Cortés, Julio Benites and Antonio Rosellón


Synthesis of 5-aryl-2-oxopyrrole derivatives as synthons for highly substituted pyrroles

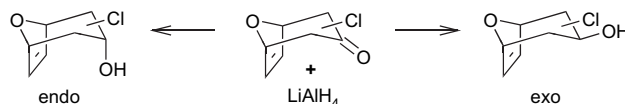
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Bert Metten, Maarten Kostermans, Gitte Van Baelen, Mario Smet and Wim Dehaen*


Stereoselective carbonyl reductions of chloro-substituted 8-oxabicyclo[3.2.1]oct-6-en-3-ones

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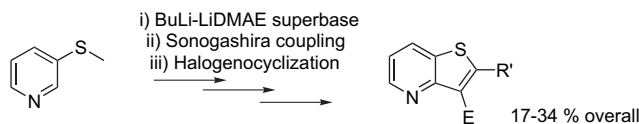
Günter Kreiselmeier, Wolfgang Frey and Baldur Föhlisch*



New efficient access to thieno[3,2-*b*]pyridine derivatives via regioselective lithiation of 3-methylthiopyridine

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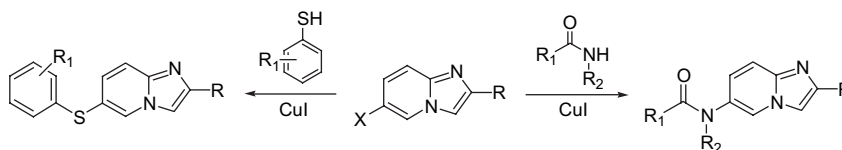
Corinne Comoy, Estelle Banaszak and Yves Fort*



A general and efficient method for the copper-catalyzed cross-coupling of amides and thiophenols with 6-halogenoimidazo[1,2-*a*]pyridines

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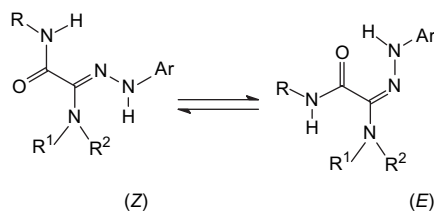
Cécile Enguehard-Gueiffier, Isabelle Thery, Alain Gueiffier* and Stephen L. Buchwald



Derivatives of arylhydrazonic acids. Part 3: Stereochemical rearrangement of *Z*-oxanilo-*N*¹-dialkyl-*N*²-arylamidrazones

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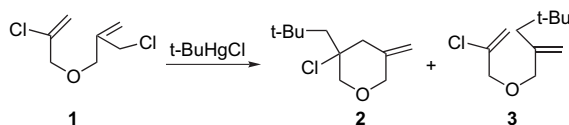
Petra Froberg*, Christoph Wagner, Rene Meier and Wolfgang Sippl



Free radical S_H2' reaction mechanism study by comparing free radical S_H2' reaction with free radical addition reaction

pp 6061–6064

Yuh-Wern Wu,* Hsu-Ting Huang, Yi-Jing Chen and Jyh-Feng Yang



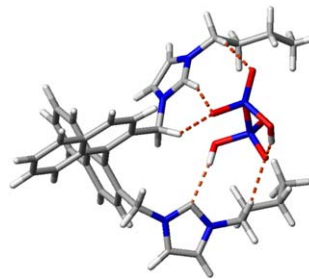
The relative rates of the competitive free radical addition to two different double bonds in (2-chloroallyl)-(2-chloromethylallyl) ether have been determined. There are two competitive free radical addition reactions, one is free radical S_H2' reaction and the other is free radical addition reaction. The mechanism of the S_H2' reaction is discussed.

Fluorescent imidazolium receptors for the recognition of pyrophosphate

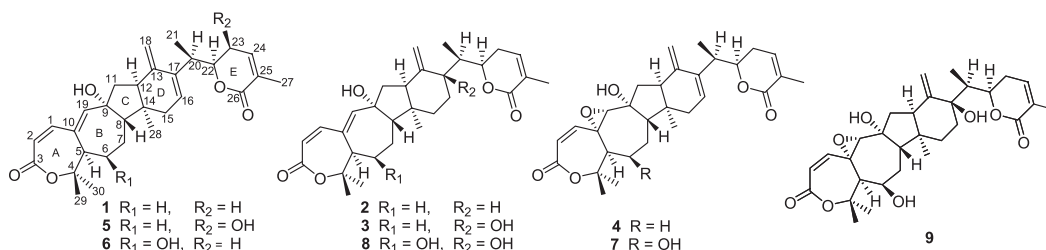
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Sook Kyung Kim, N. Jiten Singh, Jiyoung Kwon, In-Chul Hwang, Su Jin Park, Kwang S. Kim* and Juyoung Yoon*

Anthracene and binaphthyl derivatives bearing two imidazolium rings, which strongly bind anions and are particularly selective for pyrophosphate, are investigated using fluorescence, ^1H NMR analysis, and density functional calculations.

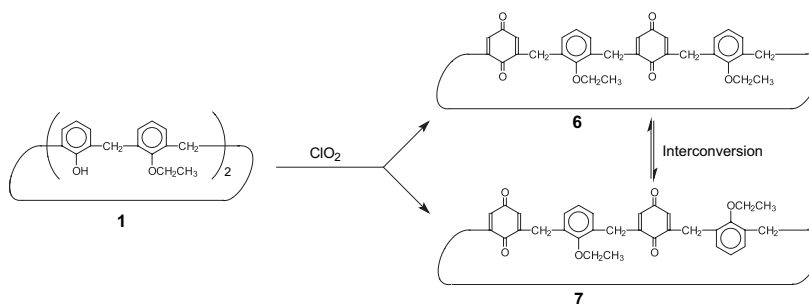
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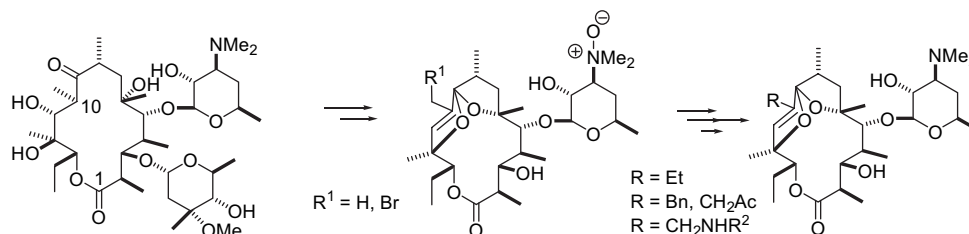
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Yu-Lung Lin, Tzer-Shun Yu, Wen-You Wang and Lee-Gin Lin*

**Selective substitutions in the C10-methyl group in erythromycin derivatives**

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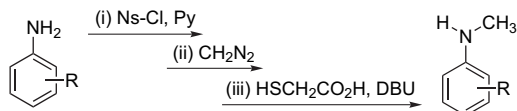
Sølvi Gunnes, Christian Rømming and Kjell Undheim*



Highly specific N-monomethylation of primary aromatic amines

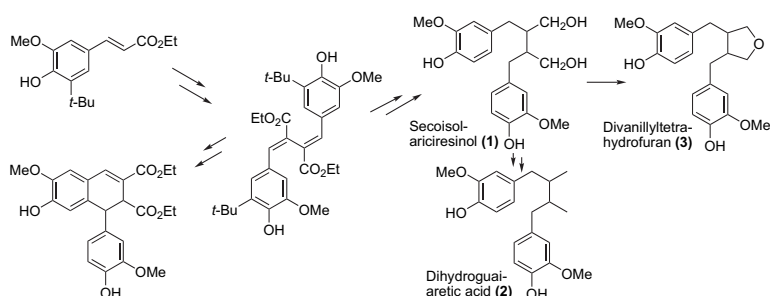
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Adolfo Le Pera, Antonella Leggio and Angelo Liguori*

**An efficient method for the synthesis of lignans**

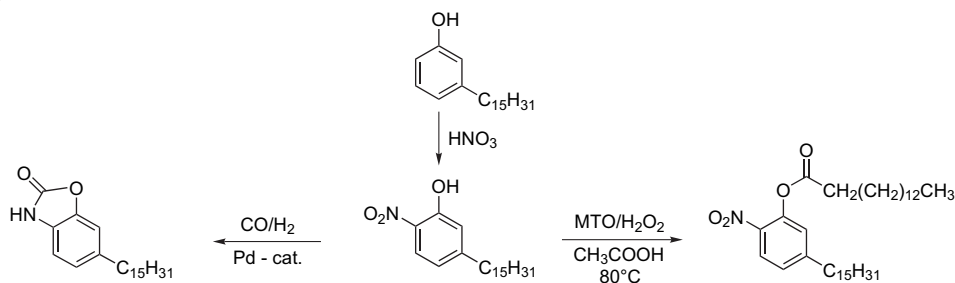
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Qian Wang, Yong Yang, Ying Li, Wei Yu and Zi Jie Hou*

**Synthesis and reactions of nitro derivatives of hydrogenated cardanol**

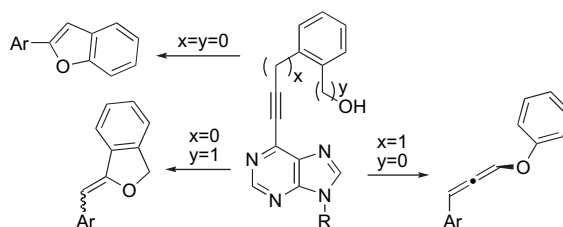
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**Cyclization and rearrangement products from coupling reactions between terminal *o*-alkynylphenols or *o*-ethynyl(hydroxymethyl)benzene and 6-halopurines**

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*Corresponding author

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