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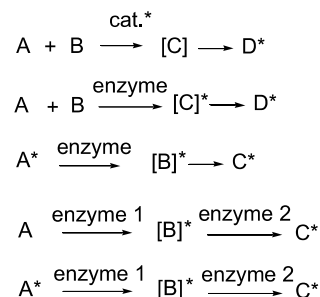
### REPORT

#### Asymmetric domino reactions. Part B: Reactions based on the use of chiral catalysts and biocatalysts

pp 2143–2173

Hélène Pellissier

Asymmetric domino reactions are reviewed for the first time. The second part of the review includes asymmetric domino reactions catalysed by chiral catalysts and asymmetric biocatalysed domino reactions and covers the classification and characteristics of these asymmetric domino reactions, together with their most recent applications. This compilation clearly demonstrates the power and economical interest of asymmetric catalysed domino reactions in the field of synthetic organic chemistry including the asymmetric biocatalysed domino reactions.

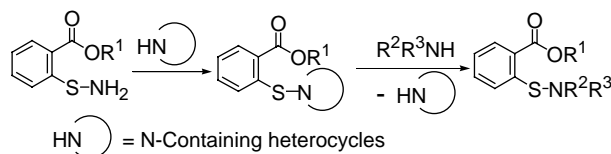


### ARTICLES

#### The synthesis and reaction of *N*-sulfenyl heterocycles: development of effective sulfenylating reagents

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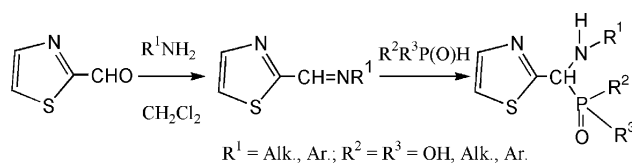
Masao Shimizu,\* Hidenori Fukazawa, Shigeru Shimada and Yoshimoto Abe



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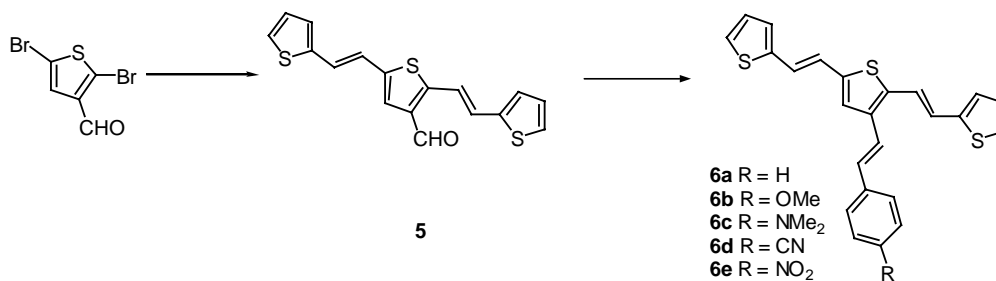
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**Synthesis and characterization of novel styryl-substituted oligothiénylenevinylenes**

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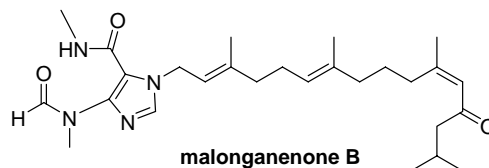
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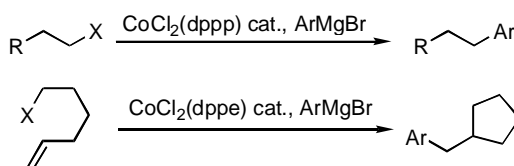
*Leptogorgia gilchristi*

Robert A. Keyzers, Christopher A. Gray, Michael H. Schleyer, Catherine E. Whibley, Denver T. Hendricks and Michael T. Davies-Coleman\*

**Cobalt-catalyzed cross-coupling reactions of alkyl halides with aryl Grignard reagents and their application to sequential radical cyclization/cross-coupling reactions**

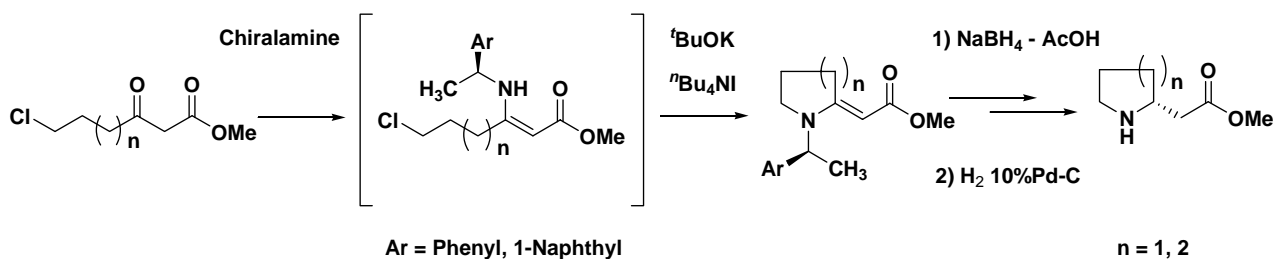
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Hirohisa Ohmiya, Katsuyu Wakabayashi, Hideki Yorimitsu\* and Koichiro Oshima\*

**Practical method for the synthesis of (R)-homopipicolinic acid and (R)-homoproline esters from ω-chloroalkanoic acids and available chiral amines**

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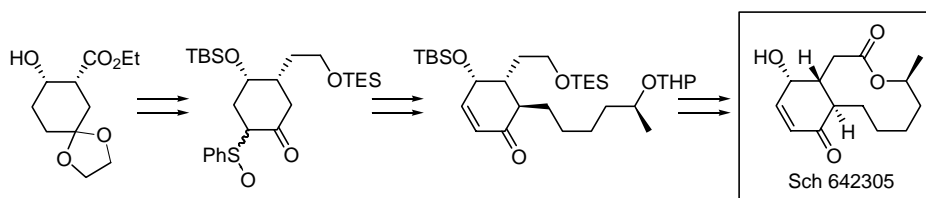
Norio Hashimoto,\* Takashi Funatomi, Tomonori Misaki and Yoo Tanabe\*



**Stereoselective synthesis of Sch 642305, an inhibitor of bacterial DNA primase**

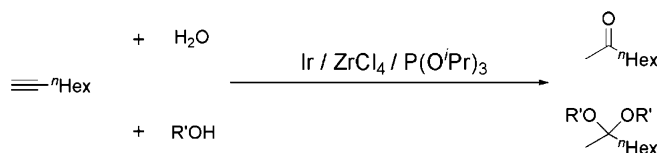
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Ken Ishigami, Ryo Katsuta and Hidenori Watanabe\*

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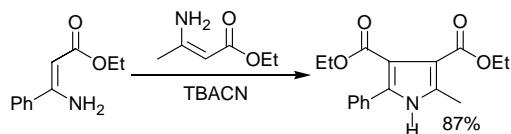
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Tomotaka Hirabayashi, Yoshio Okimoto, Akiyo Saito, Masao Morita, Satoshi Sakaguchi and Yasutaka Ishii\*

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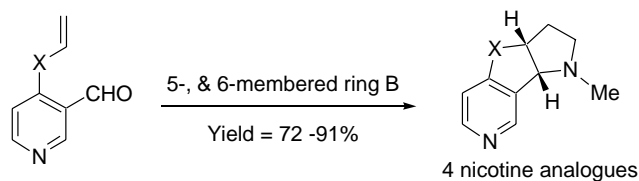
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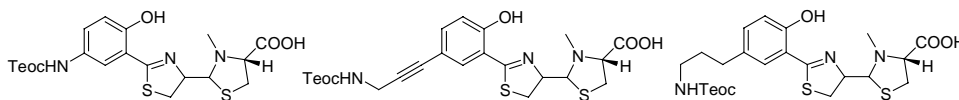
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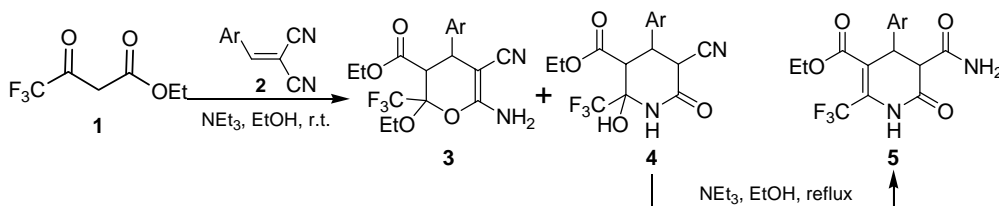
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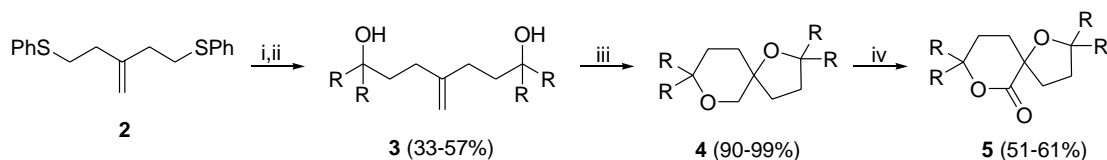
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Xianfu Li, Liping Song,\* Chunhui Xing, Jingwei Zhao and Shizheng Zhu\*


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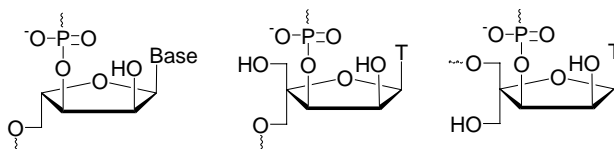
Francisco Alonso, Jaisiel Meléndez, Tatiana Soler and Miguel Yus\*


 i, Li, DTBB (cat.), R<sub>2</sub>CO, THF, 0 °C; ii, H<sub>2</sub>O; iii, I<sub>2</sub>, AgOTf, Na<sub>2</sub>CO<sub>3</sub>, THF, rt; iv, RuCl<sub>3</sub>·xH<sub>2</sub>O (cat.), NaIO<sub>4</sub>, CCl<sub>4</sub>, H<sub>2</sub>O, CTAB, reflux.

**Synthesis and RNA-selective hybridization of  $\alpha$ -L-ribo- and  $\beta$ -D-lyxo-configured oligonucleotides**

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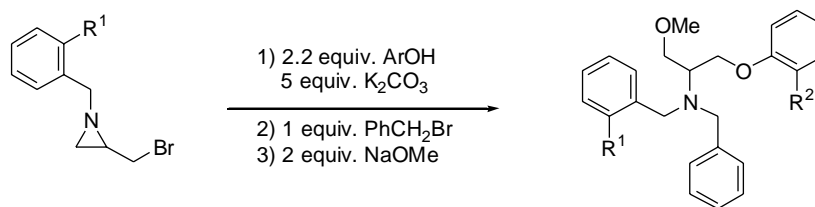
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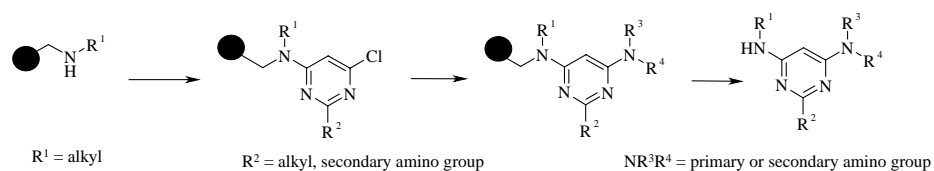
Matthias D'hooghe, Alex Waterinckx, Tim Vanlangendonck and Norbert De Kimpe\*



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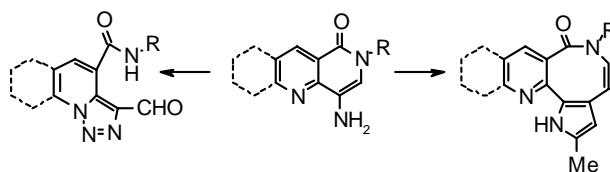
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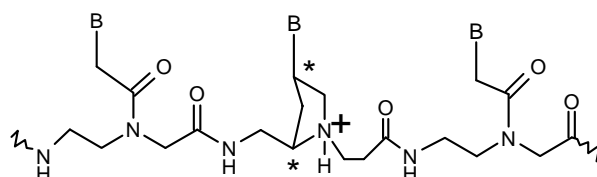
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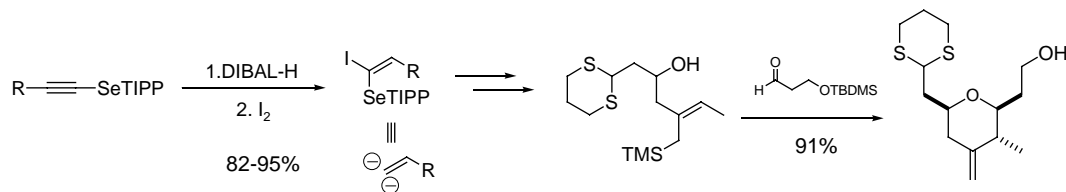
T. Govindaraju and Vijayanti A. Kumar\*



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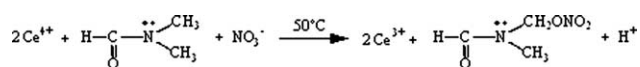
Carlos Pérez-Balado and István E. Markó\*


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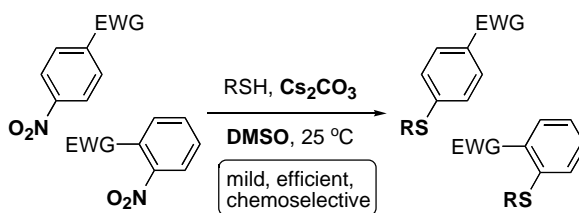
**The role of salt and solvent in sucrose cleavage**

Tonino Caruso, Emiliano Bedini, Cristina De Castro and Michelangelo Parrilli\*


**Nucleophilic aromatic substitution reaction of nitroarenes with alkyl- or arylthio groups in dimethyl sulfoxide by means of cesium carbonate**

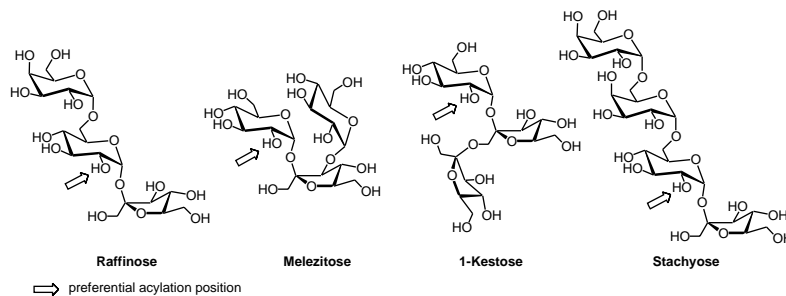
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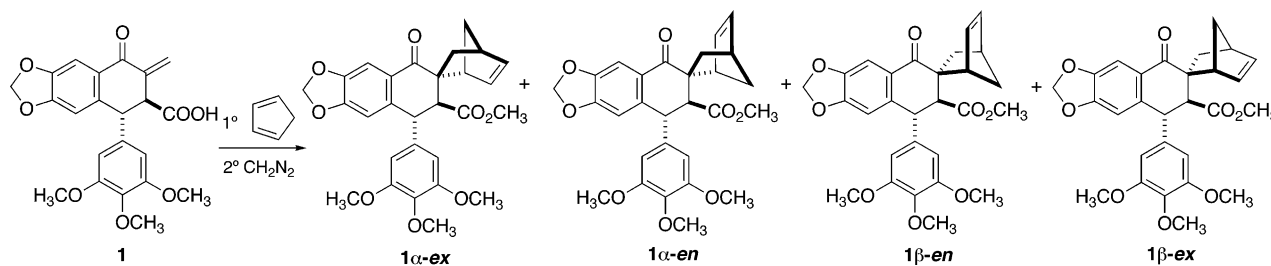
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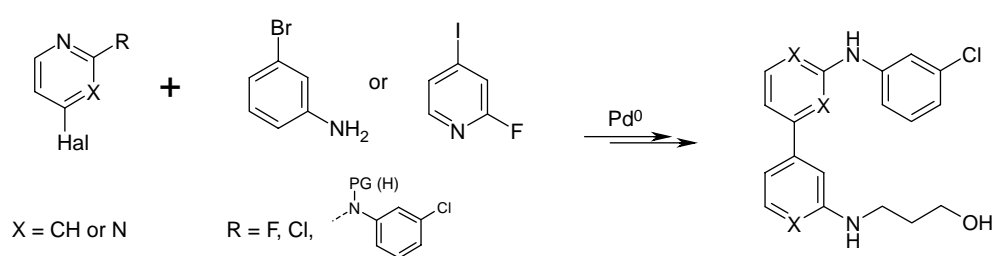
José L. López-Pérez,\* Andrés Abad, Esther del Olmo and Arturo San Feliciano

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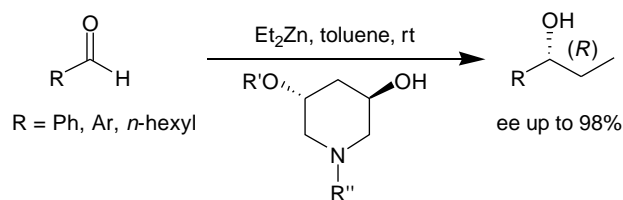
Peter Stanetty,\* Jürgen Röhrling, Michael Schnürch and Marko D. Mihovilovic

The synthesis of novel structural analogs of known phenylamino-pyrimidine-type protein kinase C inhibitors is reported. Key step of the reaction sequence was a Pd-catalyzed Negishi type cross-coupling reaction.

**Enantioselective diethylzinc addition to aromatic and aliphatic aldehydes using (3R,5R)-dihydropiperidine derivatives catalyst**

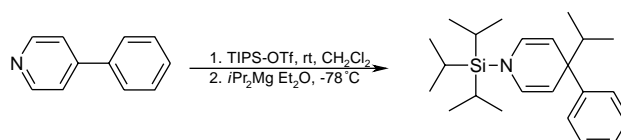
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Rémi Roudeau, Domingo Gomez Pardo and Janine Cossy\*

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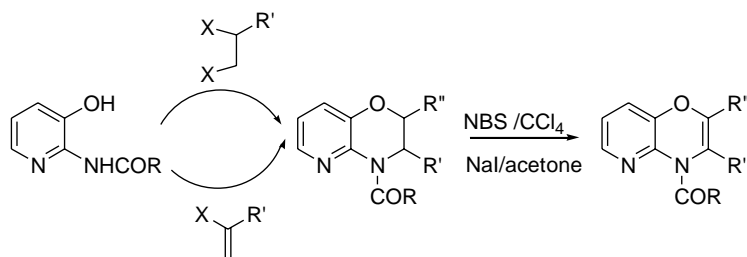
Jan Bräckow and Klaus T. Wanner\*



### Synthesis of substituted 3,4-dihydro-2H-pyrido[3,2-b][1,4]oxazine as new scaffolds for potential bioactive compounds

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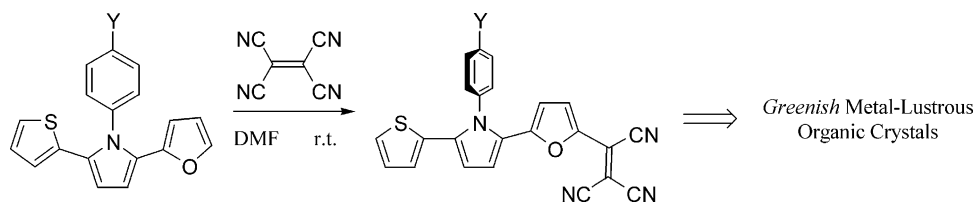
N. Henry, I. Sánchez, A. Sabatié, V. Bénéteau, G. Guillaumet\* and M. D. Pujol\*



### Greenish metal-lustrous organic crystals formed from 1-aryl-2-(2-thienyl)-5-(5-tricyanoethenyl-2-furyl)pyrroles

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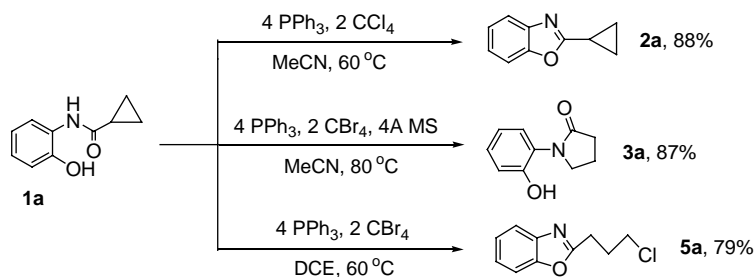
Katsuyuki Ogura,\* Kenji Ooshima, Motohiro Akazome and Shoji Matsumoto



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Yong-Hua Yang and Min Shi\*





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\*Corresponding author

①<sup>+</sup> Supplementary data available via ScienceDirect

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