



Tetrahedron Vol. 65, Issue 27, 2009

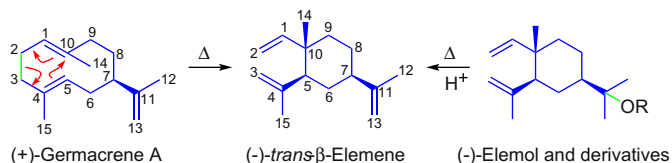
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REPORT

(–)-*trans*-β-Elemene and related compounds: occurrence, synthesis, and anticancer activity

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Adewale M. Adio

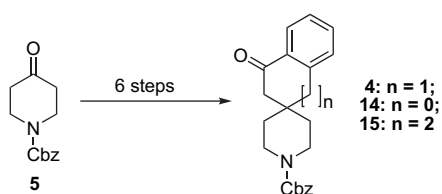


ARTICLES

General and efficient synthetic approach to novel tricyclic spiroketones

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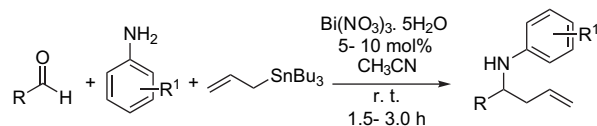
Guo-Hua Chu*, Bertrand Le Bourdonnec, Minghua Gu, Christopher T. Saeui, Roland E. Dolle



Three components synthesis of homoallylic amines catalyzed by bismuth(III) nitrate pentahydrate

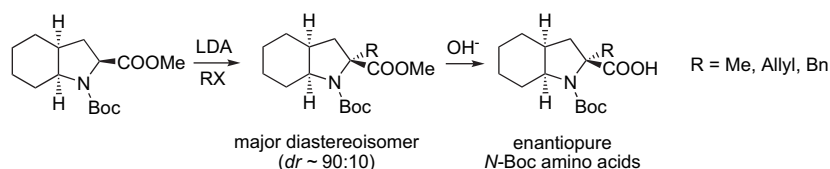
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Ponnaboina Thirupathi, Sung Soo Kim*

**A straightforward route to enantiopure α -substituted derivatives of (2*S*,3*aS*,7*aS*)-octahydroindole-2-carboxylic acid**

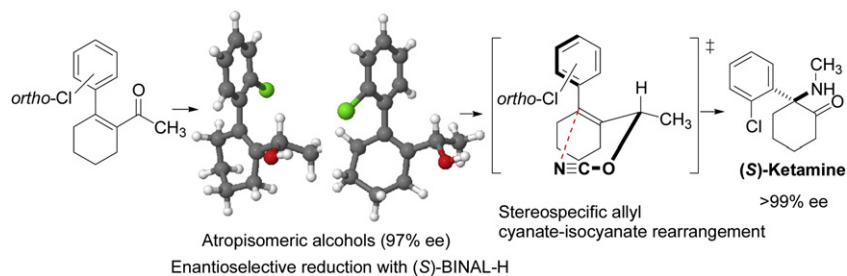
pp 5174–5180

Francisco J. Sayago, M. Isabel Calaza, Ana I. Jiménez, Carlos Cativiela*

**Enantioselective construction of nitrogen-substituted quaternary carbon centers adjacent to the carbonyl group in the cyclohexane ring: first asymmetric synthesis of anesthetic (*S*)-ketamine with high selectivity**

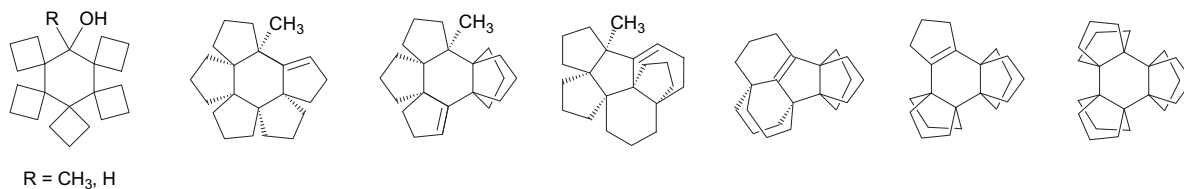
pp 5181–5191

Reiko Yokoyama, Satoshi Matsumoto, Satoshi Nomura, Takafumi Higaki, Takeshi Yokoyama, Syun-ichi Kiyooka*

**Percycloalkylated cyclohexanes: attempted synthesis of a trispropellane**

pp 5192–5198

Karl Justus, Tobias Beck, Mathias Noltemeyer, Lutz Fitjer*



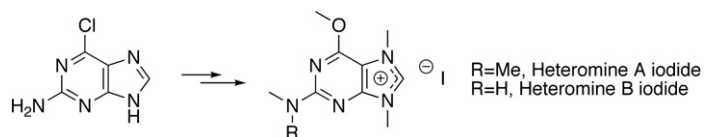
The acid catalyzed rearrangement of two pentaspiranes of four-membered rings yields five hexacyclic systems, including a bispropellane. Several attempts to convert it to a trispropellane failed.



The first total synthesis of heteromine B, and an improved synthesis of heteromine A; natural products with antitumor activities

Heidi Roggen, Colin Charnock, Lise-Lotte Gundersen*

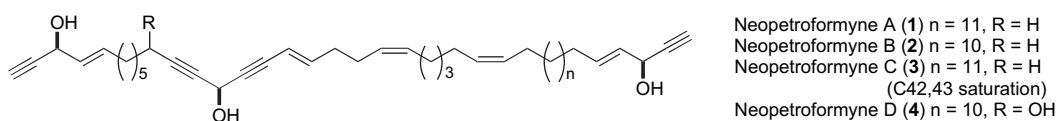
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Cytotoxic polyacetylenes related to petroformyne-1 from the marine sponge *Petrosia* sp.

Reiko Ueoka, Yuji Ise, Shigeki Matsunaga*

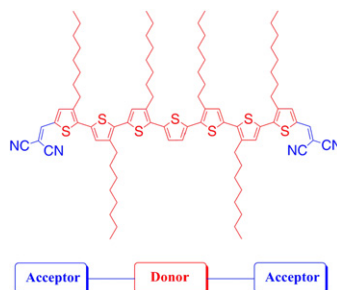
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Synthesis and properties of acceptor–donor–acceptor molecules based on oligothiophenes with tunable and low band gap

Yongsheng Liu, Jiaoyan Zhou, Xiangjian Wan, Yongsheng Chen*

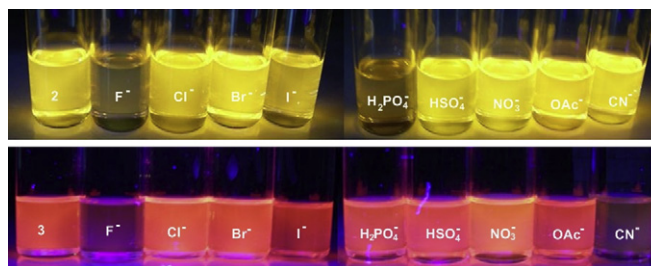
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Bifunctional maleimide dyes as selective anion sensors

Zhenghuan Lin, Hung Cheng Chen, Shih-Sheng Sun*, Chao-Ping Hsu*, Tahsin J. Chow*

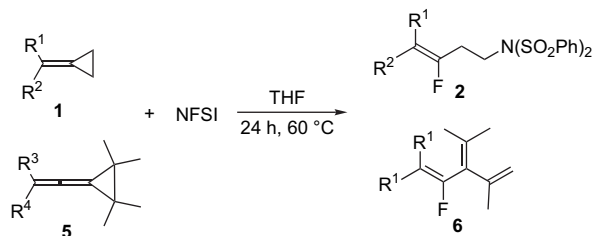
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Reactions of methylenecyclopropanes and vinylidenecyclopropanes with *N*-fluorodibenzenesulfonimide

pp 5222–5227

Min Jiang, Min Shi*

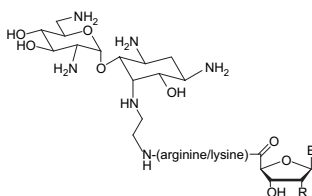


Methylenecyclopropanes and vinylidenecyclopropanes undergo ring-opening reactions with *N*-fluorodibenzenesulfonimide (NFSI) upon heating at 60 °C in tetrahydrofuran to give the corresponding fluorinated derivatives 2 and 6 in good to excellent yields.


Synthesis and biological evaluation of novel neamine–nucleoside conjugates potentially targeting to RNAs

pp 5228–5239

Yanli Xu, Hongwei Jin, Zhenjun Yang, Liangren Zhang, Lihe Zhang*

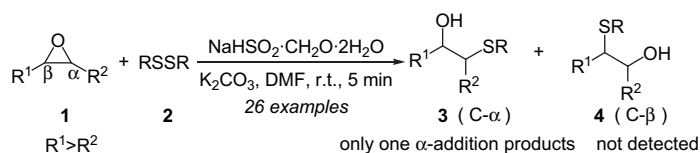


A new class of neamine–nucleoside conjugates, in which an ethylenediamine–amino acid were used as linker for the modification of the 5-hydroxyl group of neamine by nucleosides, was synthesized. The interactions between these compounds 10a–r with the A site of 16S RNA and TAR RNA were evaluated by dissociation constants (K_D values in μM) using SPR method.


Rongalite[®] promoted highly regioselective synthesis of β -hydroxy sulfides by ring opening of epoxides with disulfides

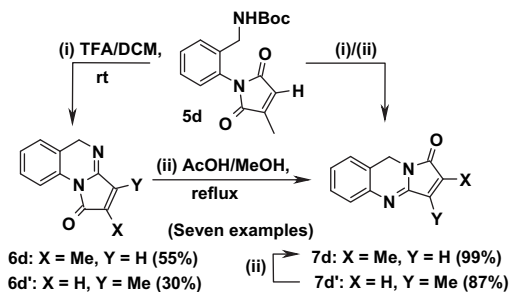
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Wenxue Guo, Jiuxi Chen*, Dengze Wu, Jinchang Ding, Fan Chen, Huayue Wu*


Facile approach to diverse range of 1,3-diaza-heterocycles: angular/linear selectivity paradigm and a remarkable intramolecular methyl migration

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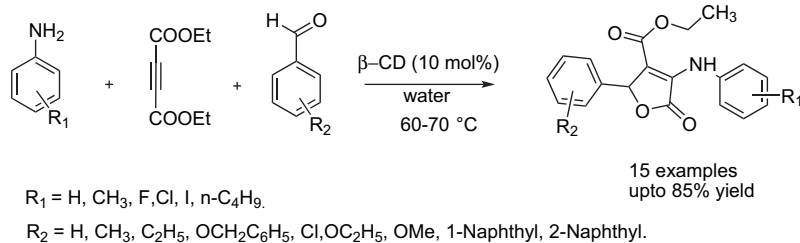
Umesh A. Kshirsagar, Narshinha P. Argade*



Facile and efficient synthesis of 3,4,5-substituted furan-2(5H)-ones by using β -cyclodextrin as reusable catalyst

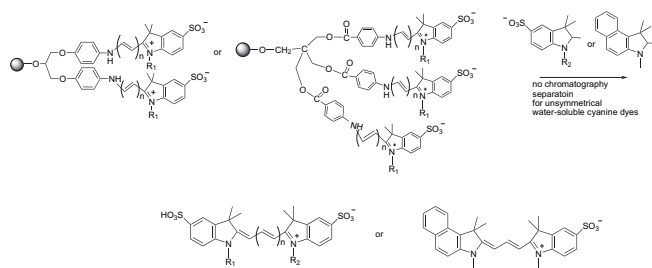
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S. Narayana Murthy, B. Madhav, A. Vijay Kumar, K. Rama Rao, Y.V.D. Nageswar*

**Synthesis of PEG derivatives bearing aminophenyl and their application for liquid-phase synthesis of water-soluble unsymmetrical cyanine dyes**

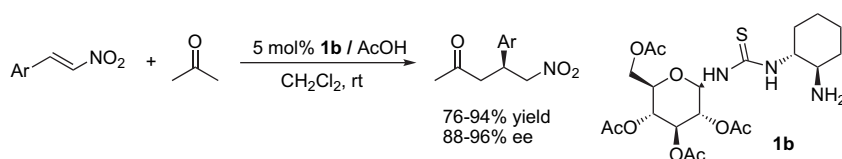
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Lin-Ling Jiang, Bao-Lin Li*, Feng-Ting Lv, Li-Fang Dou, Liu-Chang Wang

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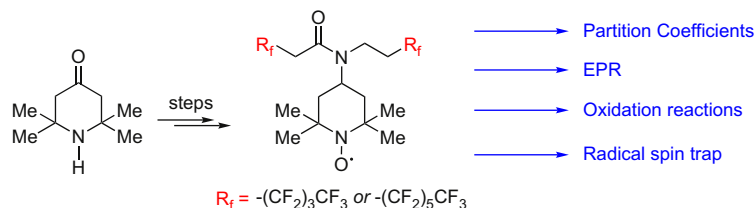
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Qing Gu, Xing-Tao Guo, Xin-Yan Wu*

**Light-fluorous TEMPO: reagent, spin trap and stable free radical**

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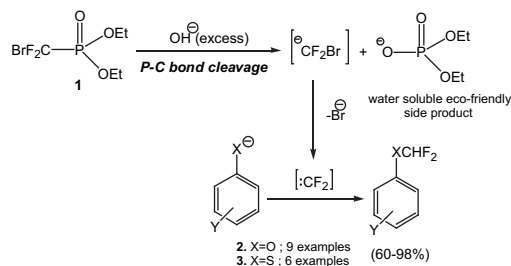
Adrian P. Dobbs*, Peter Jones, Mark J. Penny, Stephen E. Rigby



Diethyl bromodifluoromethylphosphonate: a highly efficient and environmentally benign difluorocarbene precursor

Yossi Zafrani*, Gali Sod-Moriah, Yoffi Segall*

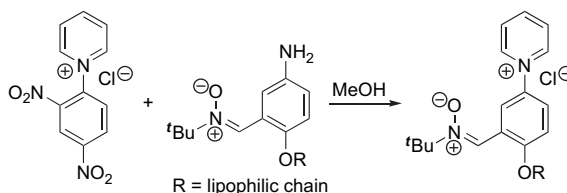
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Synthesis of *N*-arylpyridinium salts bearing a nitron spin trap as potential mitochondria-targeted antioxidants

Linsey Robertson, Richard C. Hartley*

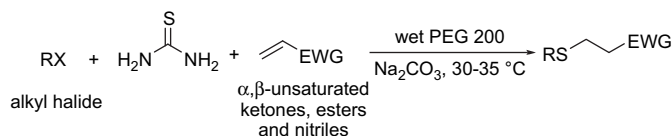
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Habib Firouzabadi*, Nasser Iranpoor*, Mohammad Abbasi

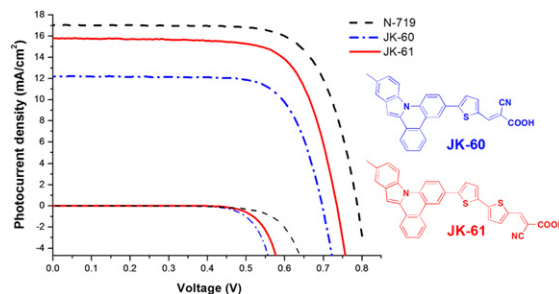
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Synthesis and photovoltaic properties of novel organic sensitizers containing indolo[1,2-f]-phenanthridine for solar cell

Chul Baik, Duckhyun Kim, Moon-Sung Kang, Kihyung Song, Sang Ook Kang*, Jaejung Ko*

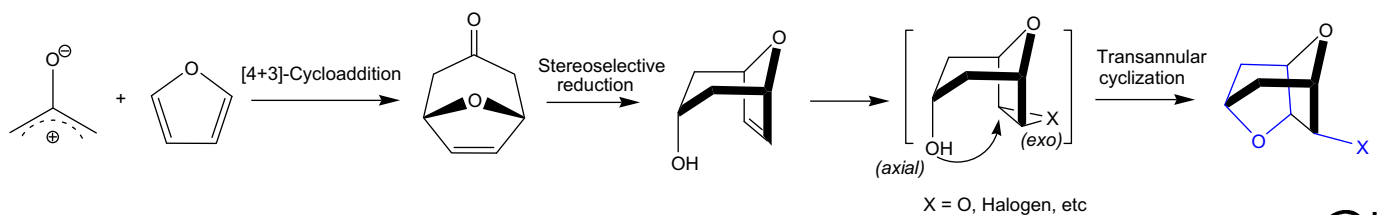
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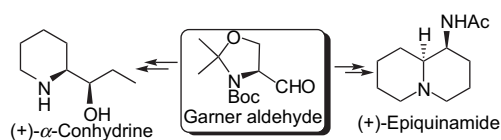
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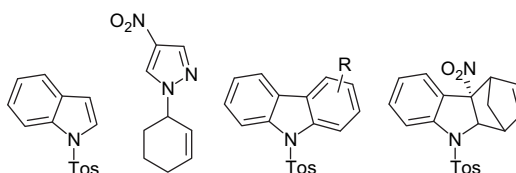
Ajay Kumar Srivastava, Sanjit Kumar Das, Gautam Panda*



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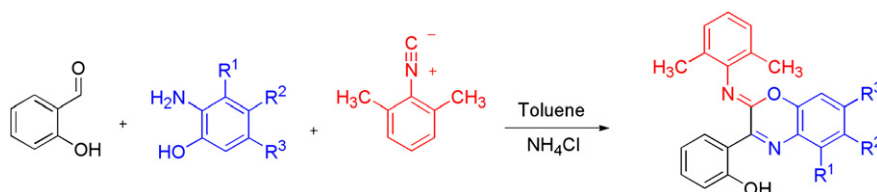
M. Victoria Gómez, Ana I. Aranda, Andrés Moreno*, Fernando P. Cossío, Abel de Cózar, Ángel Díaz-Ortiz, Antonio de la Hoz, Pilar Prieto



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Ma. Carmen García-González, Eduardo González-Zamora*, Rosa Santillan, Oscar Domínguez, José Manuel Méndez-Stivalet, Norberto Farfán



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Vanessa L. Campo, Maristela B. Martins, Carlos H.T.P. da Silva, Ivone Carvalho*

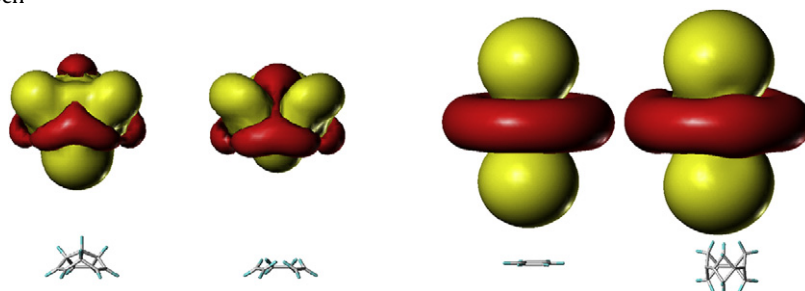


General synthetic route for the solution-phase synthesis of diketopiperazines.

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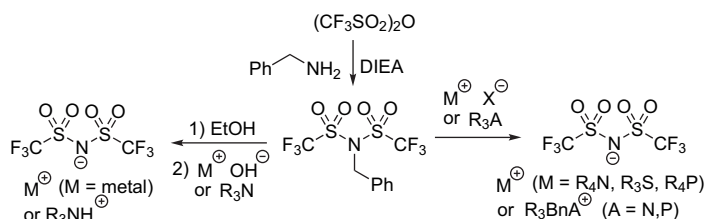
Erich Kleinpeter*, Andreas Koch



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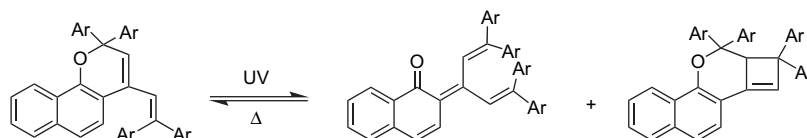
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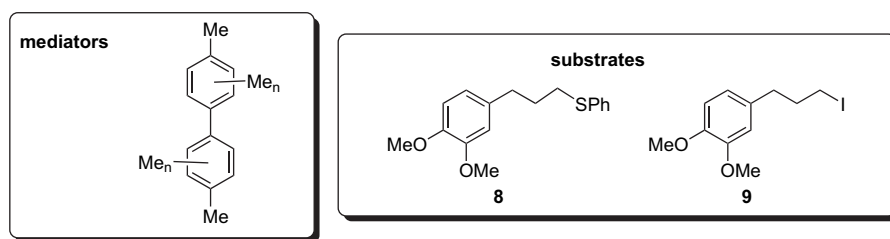
Paulo J. Coelho*, Luís M. Carvalho, Gaston Vermeersch, Stephanie Delbaere



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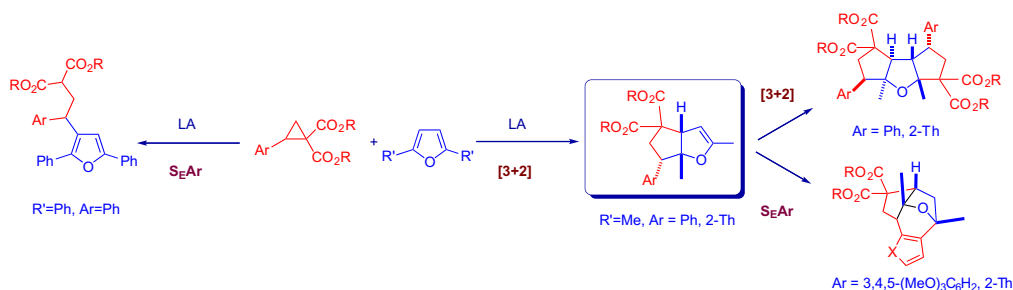
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Timothy J. Donohoe*, Neil M. Kershaw, Ronan Baron, Richard G. Compton*

**Lewis acid-catalyzed reactions of donor–acceptor cyclopropanes with furan derivatives**

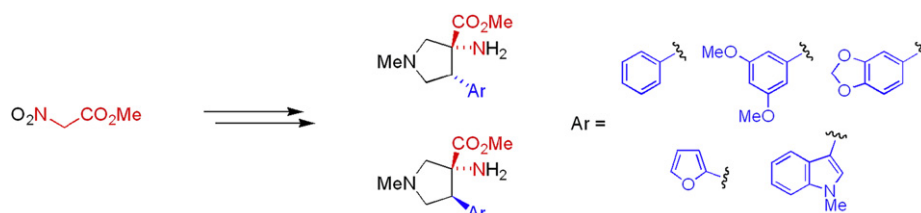
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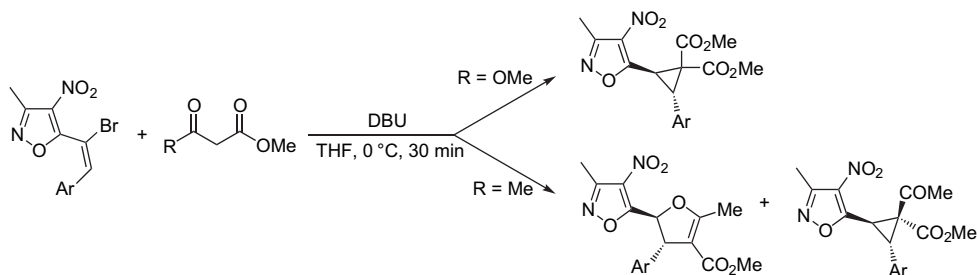
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Daniel Blanco-Ania, Pedro H.H. Hermkens, Leo A.J.M. Sliedregt, Hans W. Scheeren, Floris P.J.T. Rutjes*

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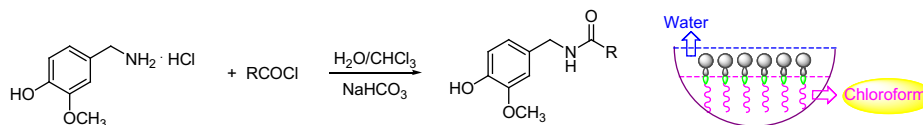
Mauro F.A. Adamo*, Surisetti Suresh, Linda Piras



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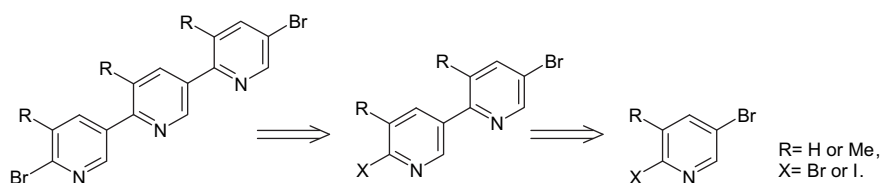
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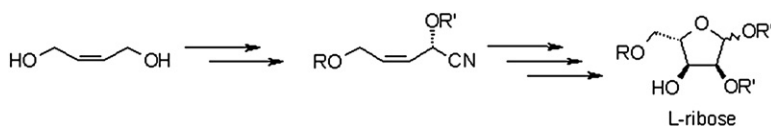
Grégory Burzicki, Anne Sophie Voisin-Chiret, Jana Sopková-de Oliveira Santos, Sylvain Rault*



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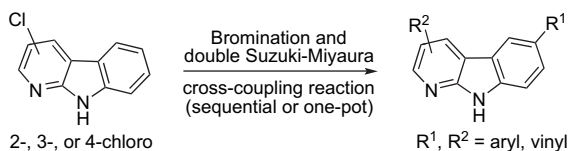
Manuela Avi, Richard Gaisberger, Sabine Feichtenhofer, Herfried Griengl*



Chemoselective functionalization of α -carboline at the C-2, C-3, C-4, and C-6 positions using Suzuki–Miyaura reactions

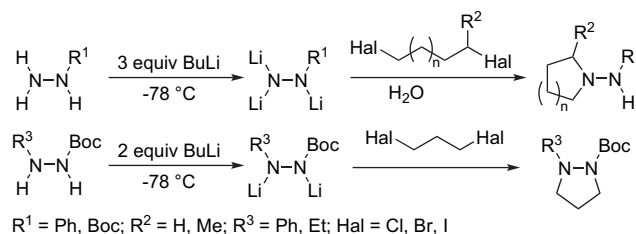
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Cédric Schneider, David Gueyrard, Benoît Joseph, Peter G. Goekjian*



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Oleg Lebedev, Aleksei Bredihhin, Svetlana Tsupova, Uno Mäeorg*

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*Corresponding author

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