

Tetrahedron: *Asymmetry* Vol. 20, No. 5, 2009

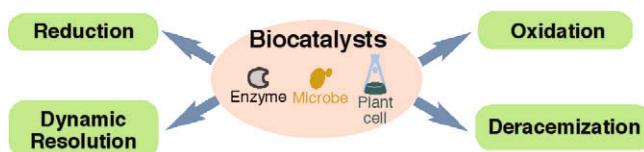
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Report

Recent progress in biocatalysis for asymmetric oxidation and reduction

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Tomoko Matsuda^{*}, Rio Yamanaka, Kaoru Nakamura^{*}



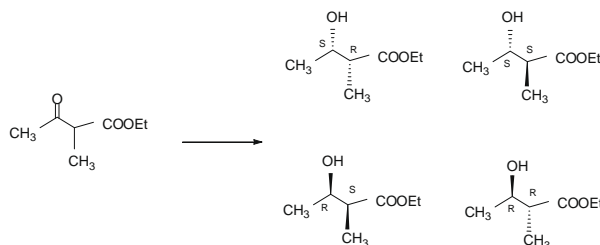
Recent developments in biocatalytic approach to reduction, oxidation, dynamic kinetic resolution, and deracemization are reviewed.

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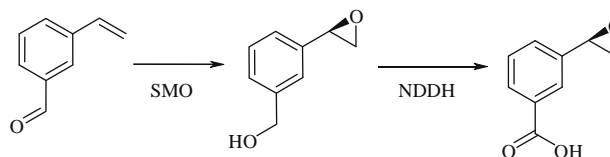


Articles

Multienzymatic preparation of (-)-[3-(oxiran-2-yl)phenyl]methanol and (-)-3-(oxiran-2-yl)benzoic acid

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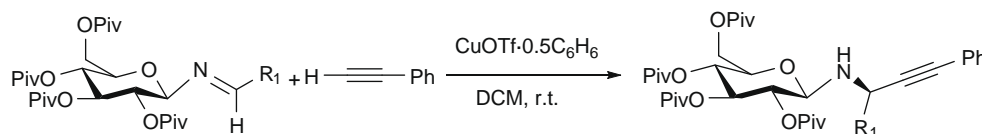
Guido Sello^{*}, Silvana Bernasconi, Fulvia Orsini, Patrizia Di Gennaro



Diastereoselective alkynylation of glucose-modified imines with terminal alkynes

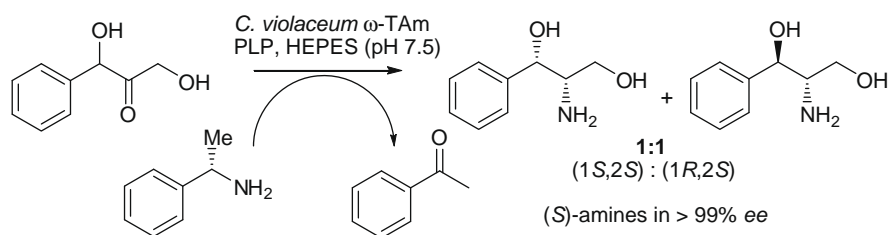
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Jiangang Mao, Pengfei Zhang *

**Stereoselectivity of an ω -transaminase-mediated amination of 1,3-dihydroxy-1-phenylpropane-2-one**

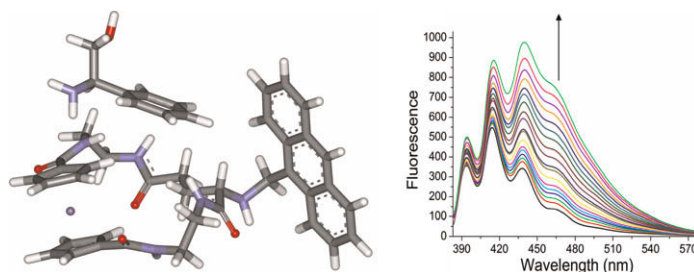
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Kirsty Smithies, Mark E.B. Smith, Ursula Kaulmann, James L. Galman, John M. Ward, Helen C. Hailes *

**Highly selective fluorescent recognition of phenyl amino alcohol based on ferrocenyl macrocyclic derivatives**

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Guang-yan Qing *, Tao-lei Sun, Yong-bing He, Feng Wang, Zhi-hong Chen

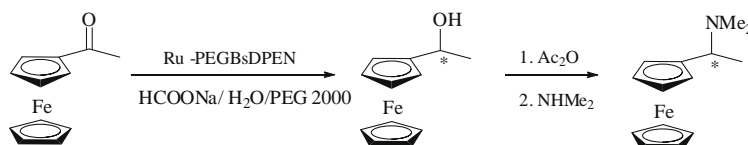


Ferrocenyl macrocyclic derivatives (**3** and **4**) containing anthracene fluorophores could discriminate phenylglycinol from other species through the obvious fluorescence enhancement and the occurrence of the strong emission band of intermolecular exciplex.

A practical process to chiral ferrocenyl alcohols via asymmetric transfer hydrogenation catalyzed with a PEG-bound Ru catalyst in water and its application in preparing Ugi's amine

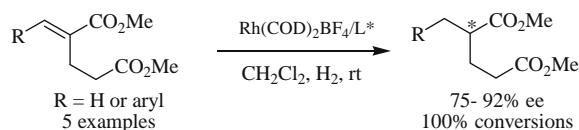
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Yinuo Wu, Chuanjun Lu, Wenjun Shan, Xingshu Li *

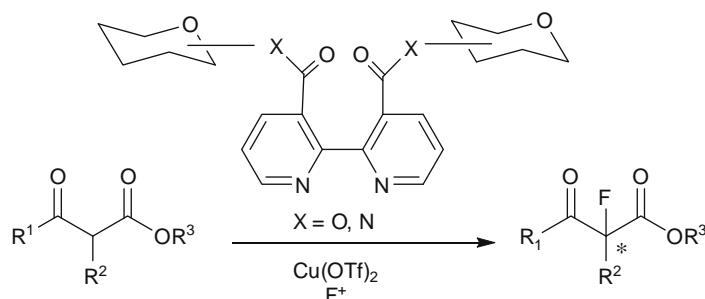


Asymmetric synthesis of chiral glutaric acid derivatives via Rh-catalyzed enantioselective hydrogenation

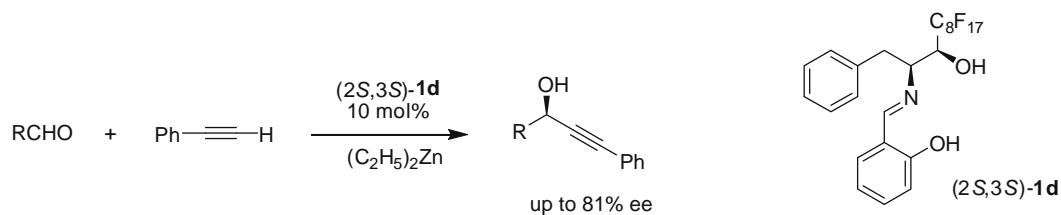
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Zheng-Chao Duan, Xiang-Ping Hu^{*}, Jun Deng, Sai-Bo Yu, Dao-Yong Wang, Zhuo Zheng^{*}**2,2'-Bipyridine-3,3'-dicarboxylic carbohydrate esters and amides. Synthesis and preliminary evaluation as ligands in Cu(II)-catalysed enantioselective electrophilic fluorination**

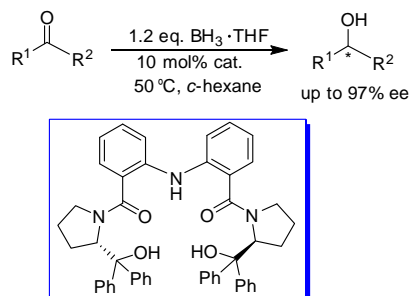
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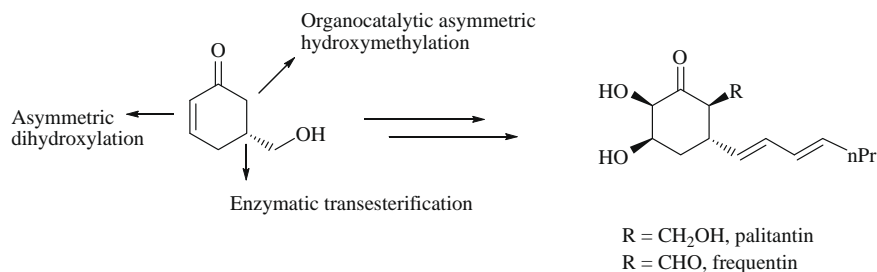
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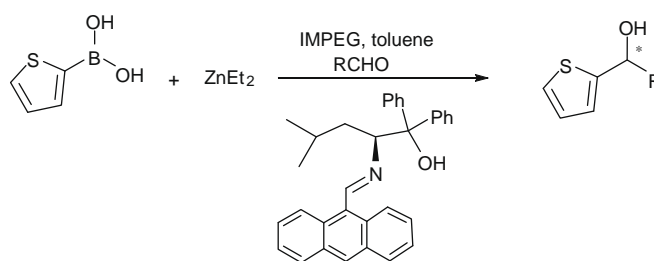
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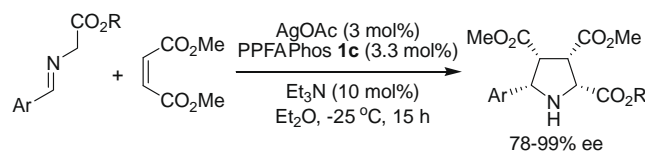
Xiaodong Liu, Li Qiu, Liang Hong, Wenjing Yan, Rui Wang *



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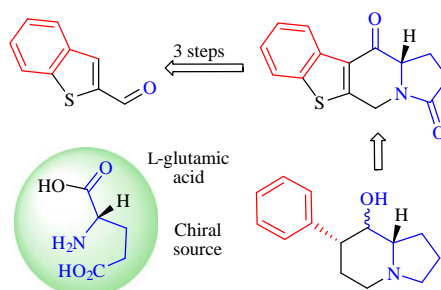
Sai-Bo Yu, Xiang-Ping Hu *, Jun Deng, Dao-Yong Wang, Zheng-Chao Duan, Zhuo Zheng *

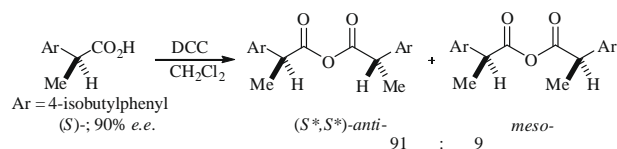


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Peter Šafař, Jozefína Žúžiová, Štefan Marchalín *, Eva Tóthová, Nadežda Prónayová, Ľubomír Švorc, Viktor Vrâbel, Adam Daich *





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*Corresponding author

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