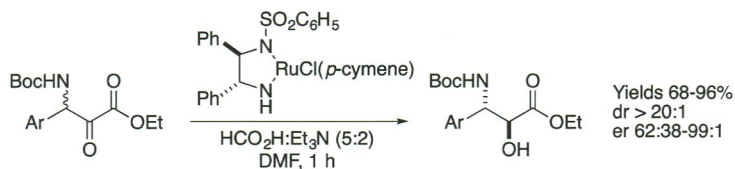


Tetrahedron Letters

THE INTERNATIONAL JOURNAL FOR THE RAPID PUBLICATION OF ALL
PRELIMINARY COMMUNICATIONS IN ORGANIC CHEMISTRY

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Enantioselective synthesis of *anti*- β -amido- α -hydroxy esters via asymmetric transfer hydrogenation coupled with dynamic kinetic resolution



Marvin Villacrez, Peter Somfai



Tetrahedron Letters Vol. 54, Issue 38, 2013

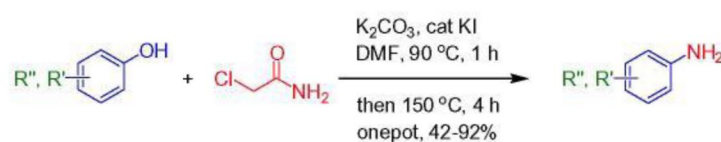
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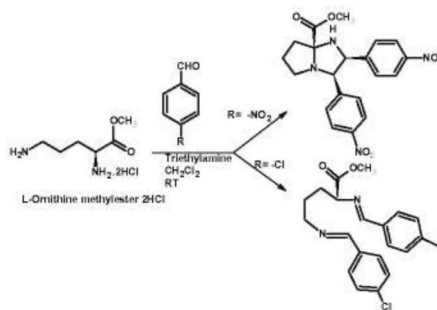
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 $R', R'' = \text{H, alkyl, aryl, halide, electron withdrawing group etc.}$ **A novel reaction cascade leading to a spontaneous intramolecular dipolar cycloaddition through simultaneous generation of 1,3-dipole and dipolarophile**

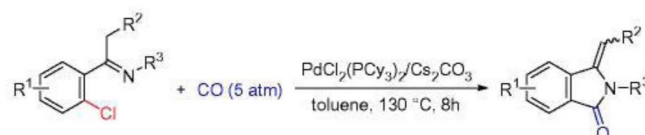
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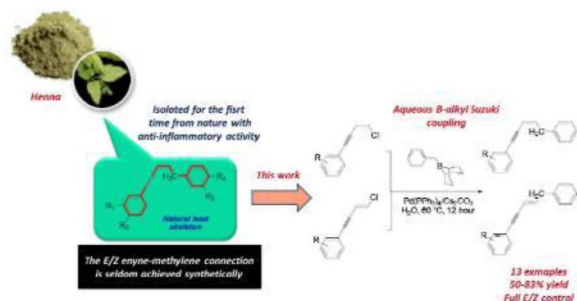
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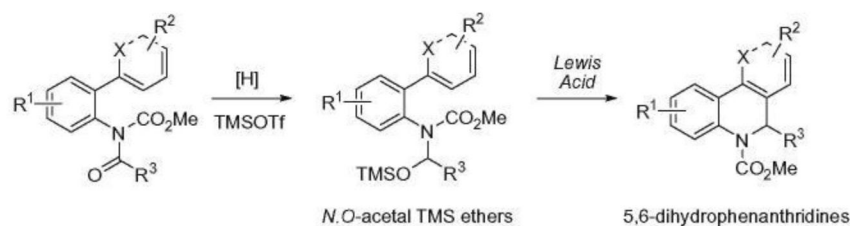
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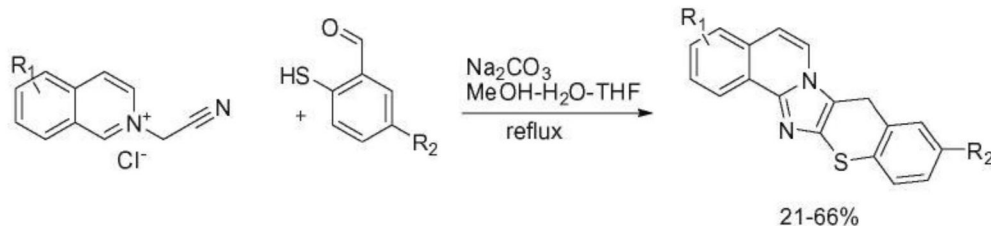
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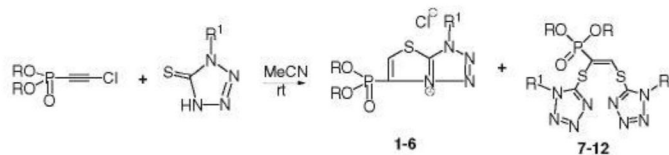
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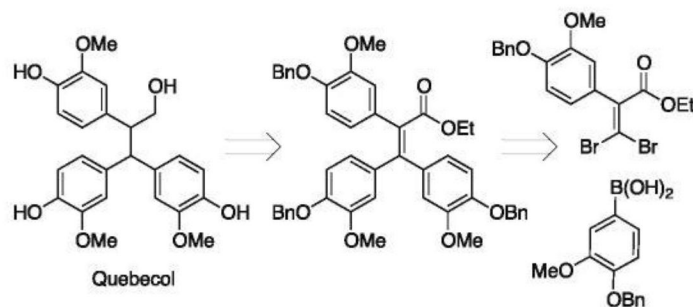
A method is developed for the synthesis of new condensed phosphorylated heterocycles, [1,3]thiazolo[3,2-*d*][1,2,3,4]tetrazol-7-ium chlorides and some related zwitterions, based on the regioselective condensation of chloroacetylenephosphonates with 1-substituted 5-thio-1H-1,2,3,4-tetrazoles as heterocyclic binucleophiles.



Total synthesis of quebecol

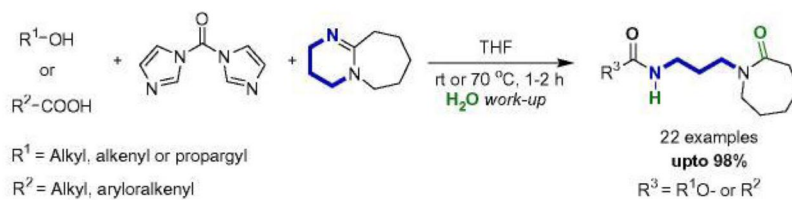
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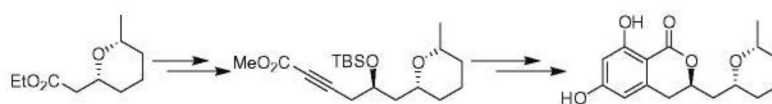
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**The stereoselective total synthesis of isocladosorpin**

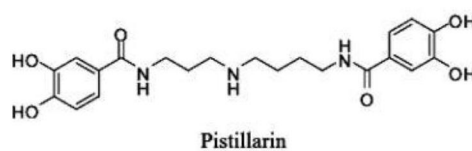
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*Ramaria subaurantiaca*

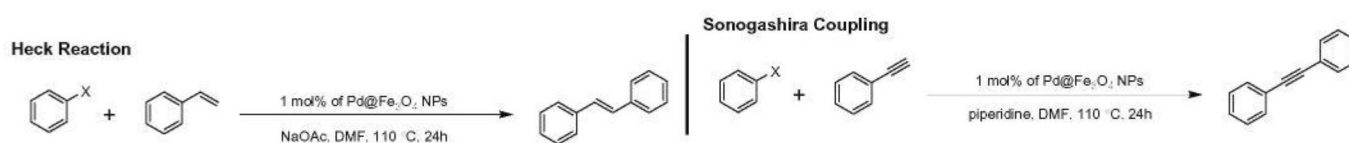
$IC_{50} = 1.9 \mu M$ *Plasmodium falciparum* (3D7)
 $IC_{50} > 100 \mu M$ Neonatal foreskin fibroblast
 Selectivity index > 53



Heck and Sonogashira cross-coupling reactions using recyclable Pd-Fe₃O₄ heterodimeric nanocrystal catalysts

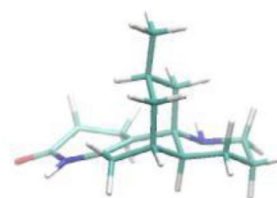
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**N-Demethyl-sauroxine, a novel Lycodine Group alkaloid from *Huperzia saururus***

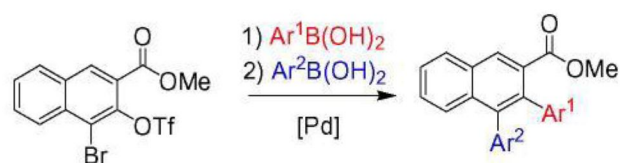
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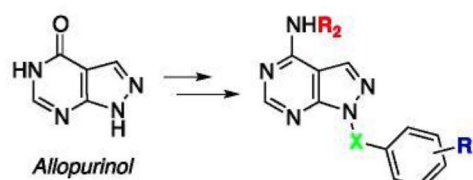
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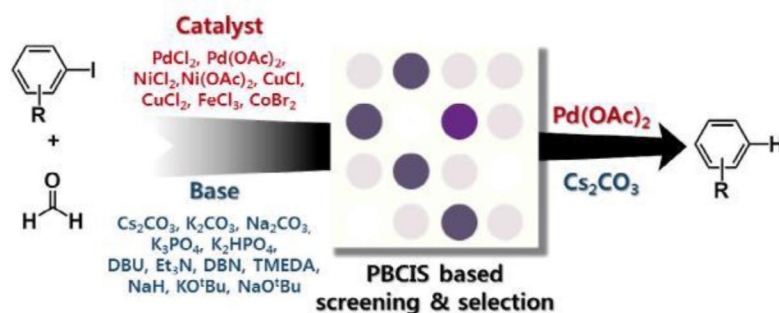
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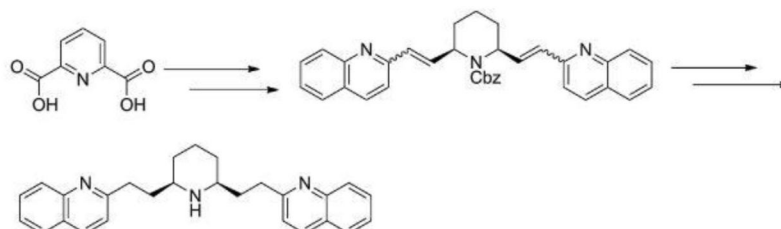
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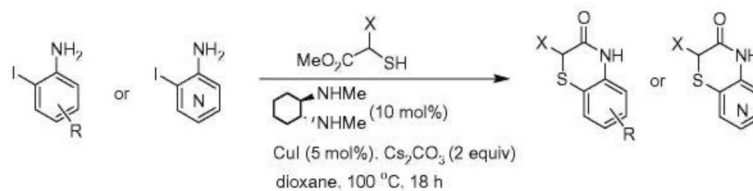
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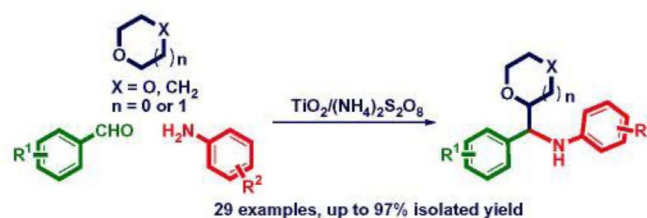
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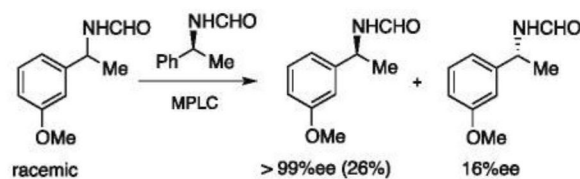
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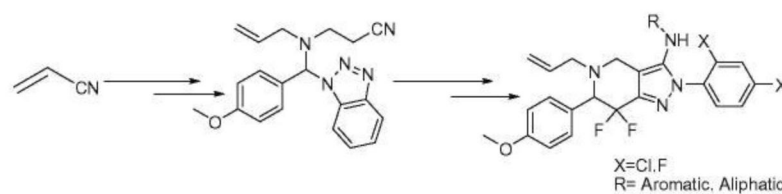
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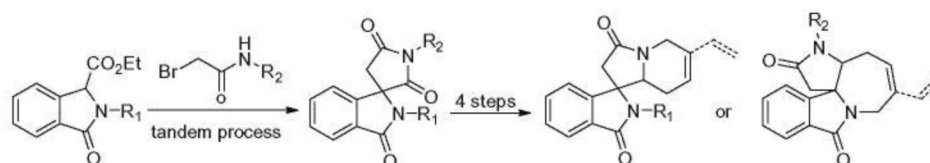
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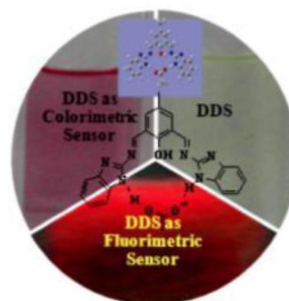
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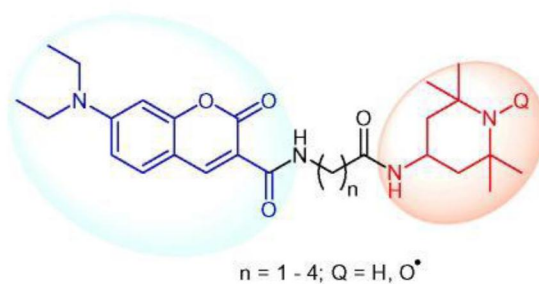
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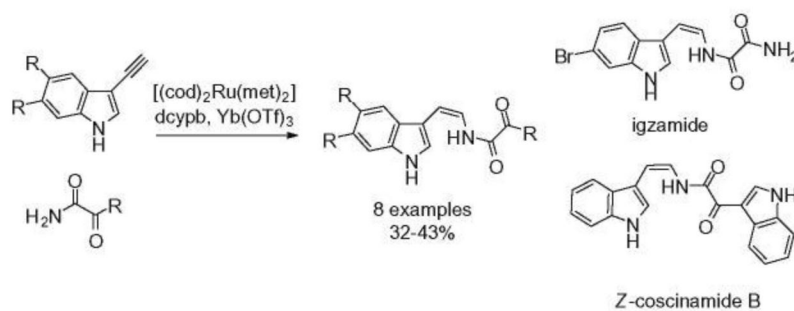
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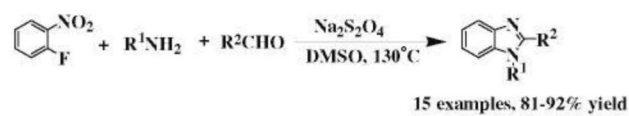
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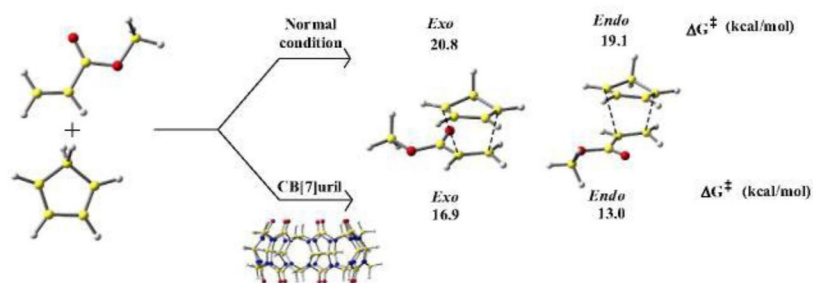
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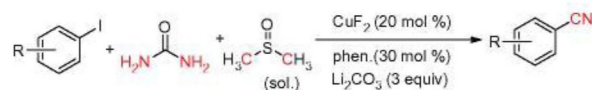
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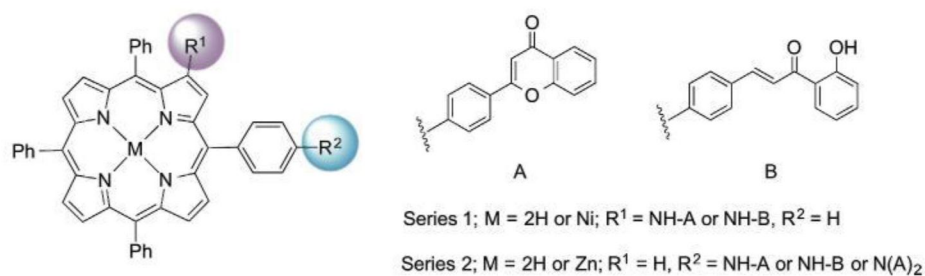
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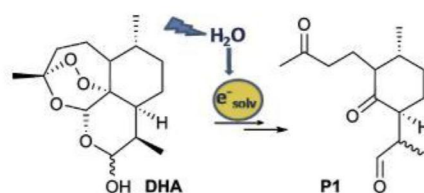
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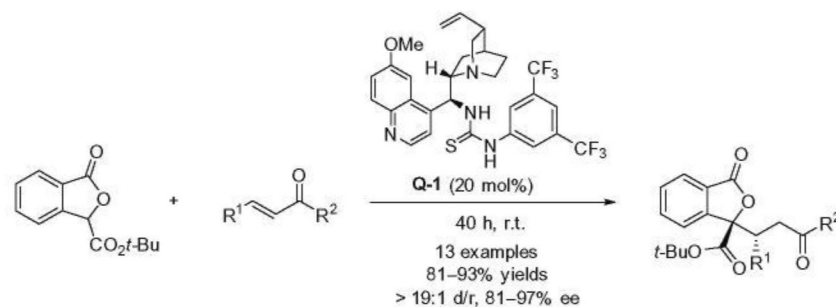
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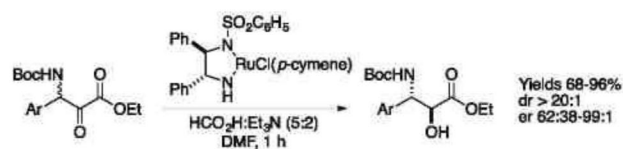
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Marvin Villacrez, Peter Somfai*



*Corresponding author

i+ Supplementary data available via ScienceDirect

COVEREnantioselective synthesis of *anti*- β -amido- α -hydroxy esters via asymmetric transfer hydrogenation coupled with dynamic kinetic resolution
Tetrahedron Letters **2013**, 54, 5266–5268.

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