

Tetrahedron: Asymmetry Vol. 19, No. 14, 2008

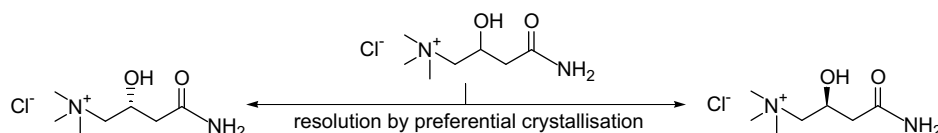
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Entrainment resolution of carnitinamide chloride

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Marco Pallavicini ^{*}, Cristiano Bolchi, Matteo Binda, Rossana Ferrara, Laura Fumagalli, Oreste Piccolo, Ermanno Valoti

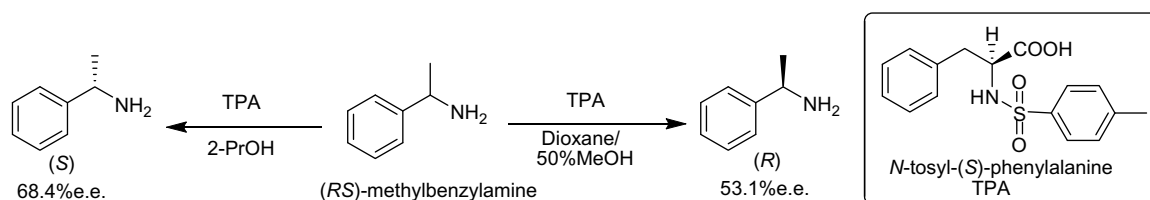


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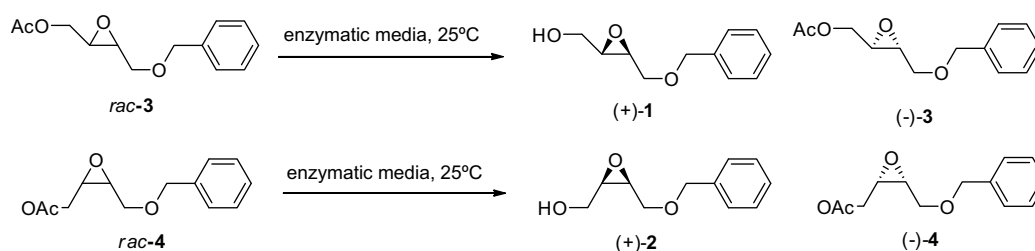
Takuji Hirose ^{*}, Muksana Begum, Md. Sadequl Islam, Kayoko Taniguchi, Mikio Yasutake



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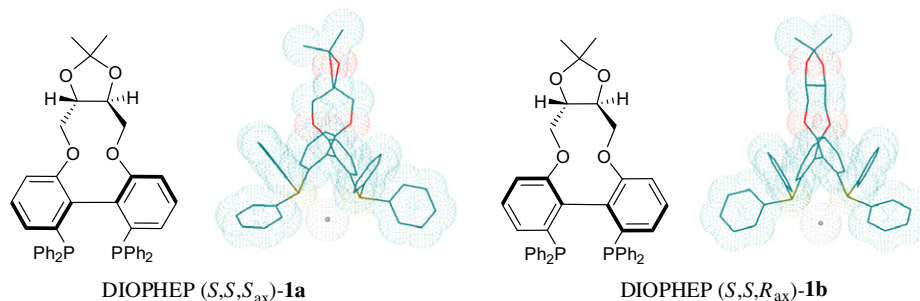
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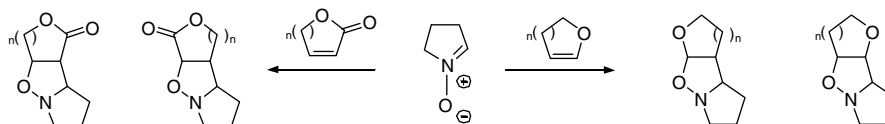
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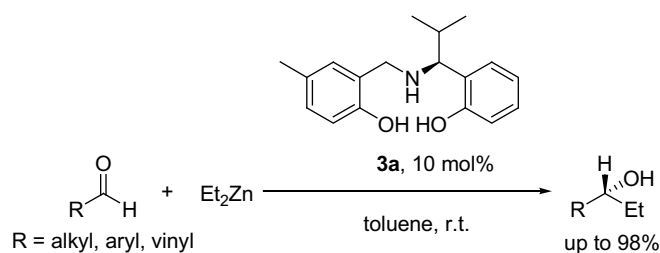
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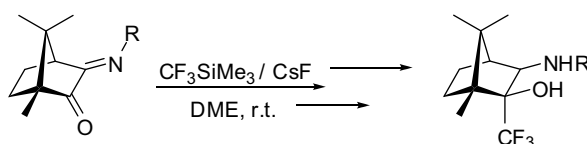
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Trifluoromethylation of camphorquinone and its monoimine derivatives

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Emilia Obijalska, Grzegorz Młostoń *, Anthony Linden, Heinz Heimgartner *



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CC(=O)OC1COC(C1)OC(=O)C $\xrightarrow[\text{H}_2\text{O} / \text{organic solvent}]{\text{PSL-C}}$ CC(=O)OC1COC(O)C1 + CC(=O)OC1COC(C1)OC(=O)C
 ($\pm$)-trans (3*R*,4*R*) (3*S*,4*S*)

O[C@H]1COC([C@H]1O)OC(=O)C $\xrightarrow[\text{vinyl benzoate} / \text{organic solvent}]{\text{CAL-B}}$ O[C@H]1COC([C@H]1OC(=O)C(=O)C)OC(=O)C
cis (3*S*,4*R*)

pp 1689–1697

Monoelectrophile cyclization
 10 steps, 47% yield

Dielectrophile cyclization
 7 steps, 49% yield

Ruthenium piperazine oxidation path
 5 steps, 32% yield

Chiral auxiliary of C-3 substitution

O-benzyl-L-serine

O-benzyl-D-serine

(1'*R*)-2

$E_e = 95\%$
 $[\alpha]_D^{24} = +7$ (c 0.1, EtOH)

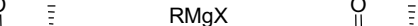
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$$\text{R-CH}_2\text{-CH=CH-CH(OH)-R} \xrightarrow[\text{H}_2\text{O, 3h, 25}^\circ\text{C}]{\text{Candida parapsilosis ATCC 7330}} \text{R-CH}_2\text{-CH=CH-CH(OH)-R}$$

R = Ph, *o*-CH₃Ph, *p*-CH₃Ph, *o*-OCH₃Ph, *p*-OCH₃Ph, *o*-ClPh, *p*-ClPh, *o*,*p*-ClPh, C₁₀H₁₇ and C₁₄H₉

ee - 76-99%
 Yield - 68-79%

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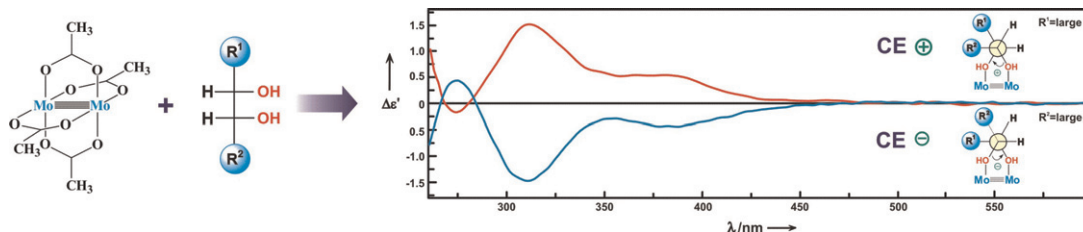


 Adds: Alkyl, Aryl, Allyl, Vinyl at 57-89% de

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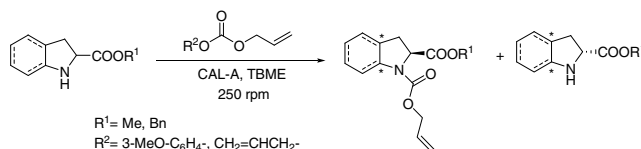
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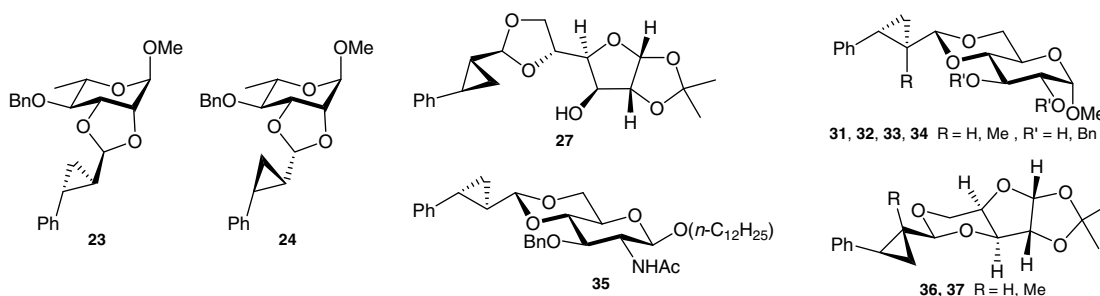
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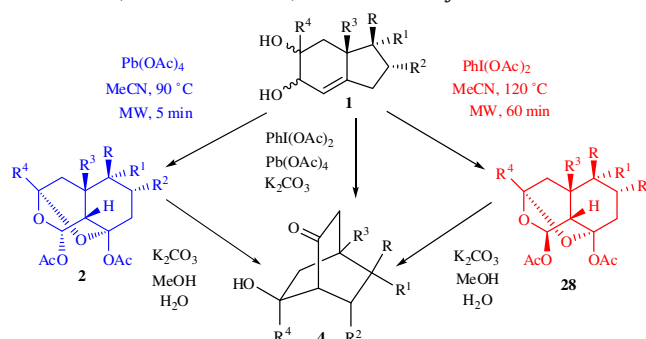
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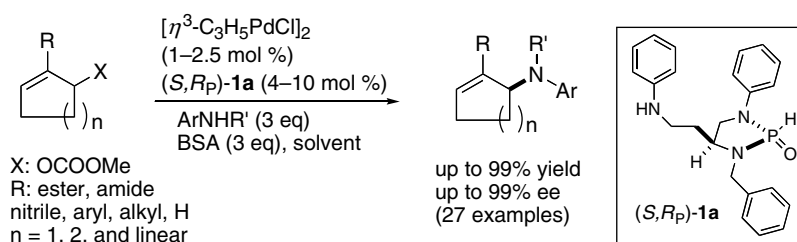
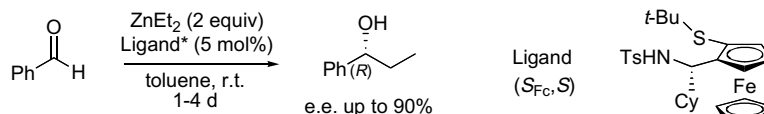


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