

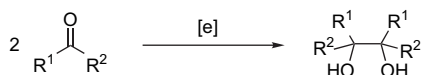
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REPORT

Evolution of the stereoselective pinacol coupling reaction

A. Chatterjee and N. N. Joshi\*

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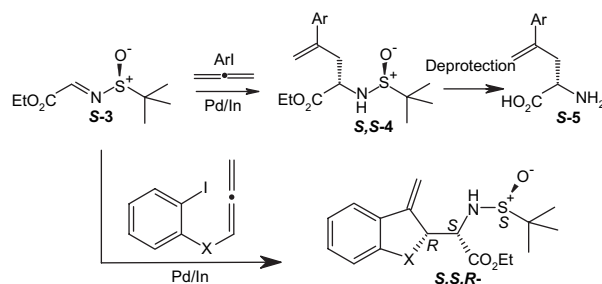
Pinacol coupling reaction, with particular emphasis on stereoselective protocols, is reviewed. The report contains 160 references.

ARTICLES

Enantioselective synthesis of non-proteinogenic 2-arylallyl- $\alpha$ -amino acids via Pd/In catalytic cascades

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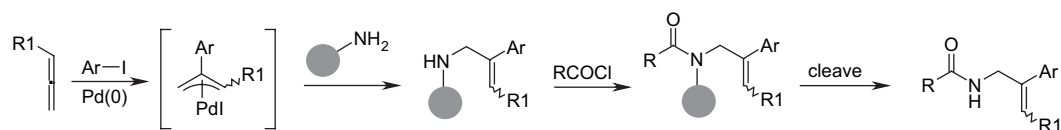
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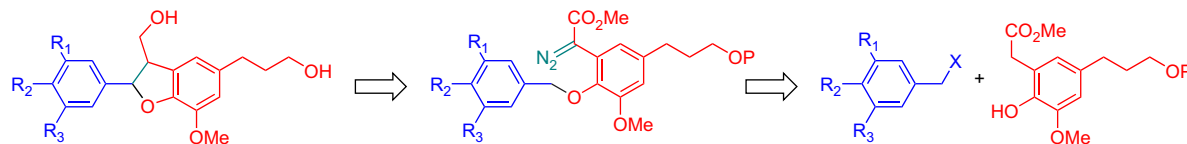
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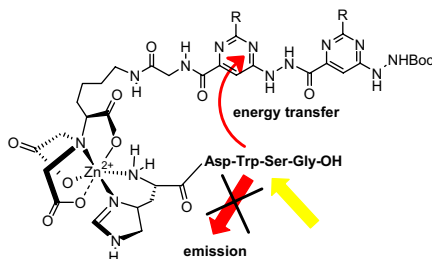
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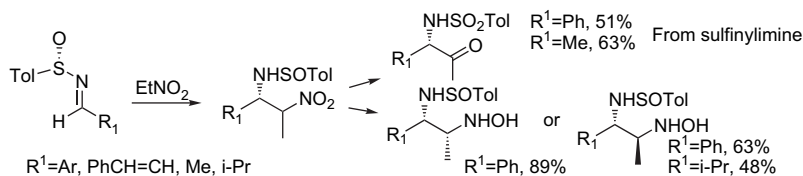


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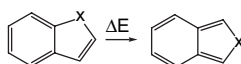
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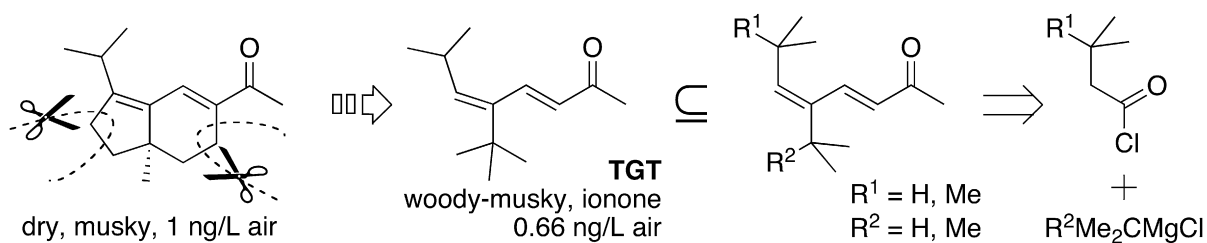
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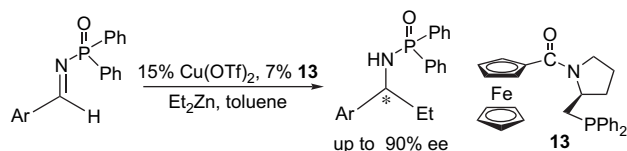
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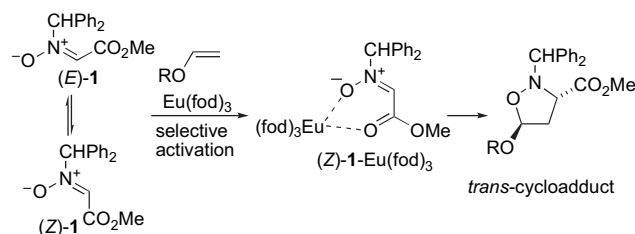
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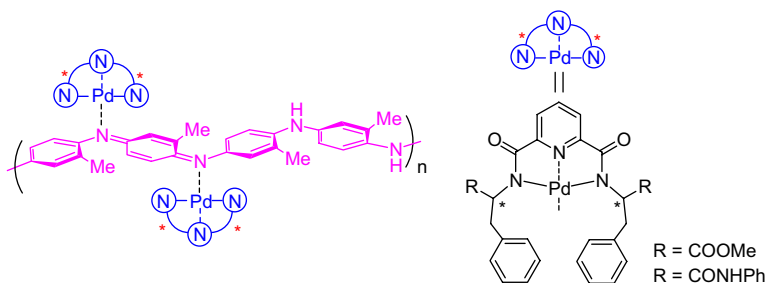
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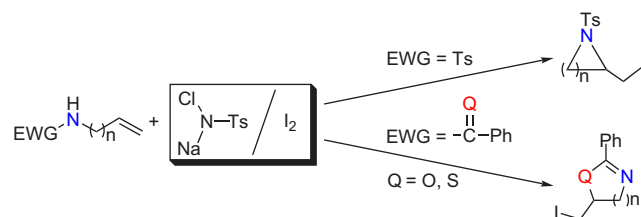
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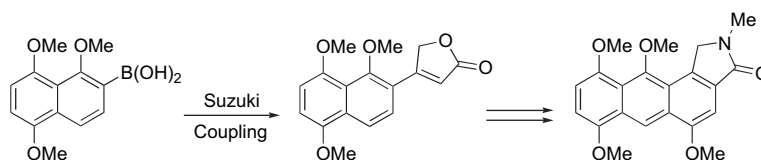
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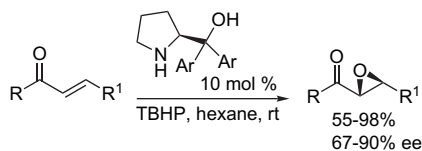
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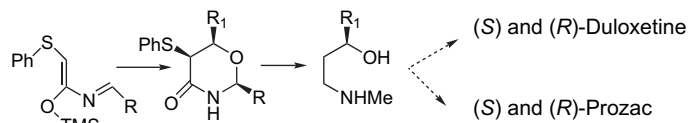
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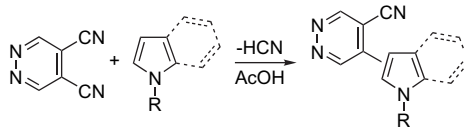
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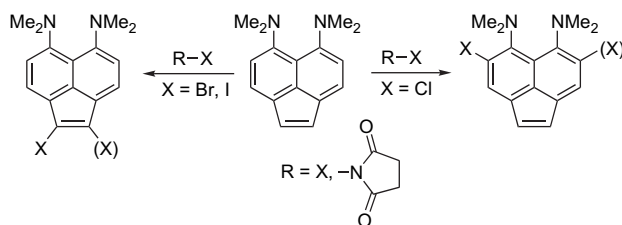
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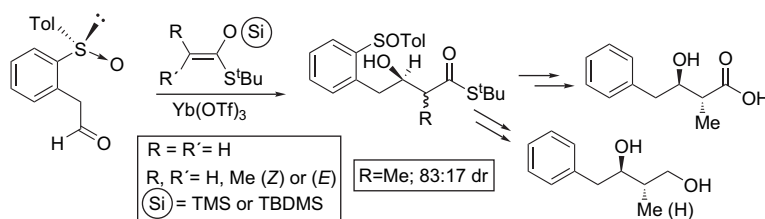
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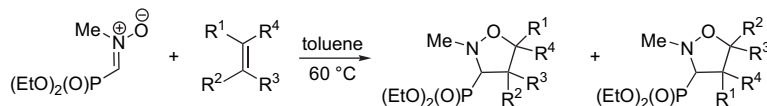
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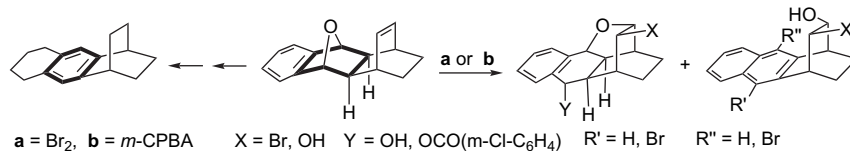
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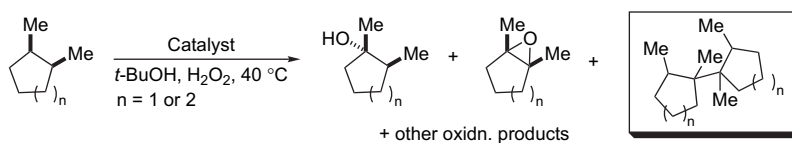
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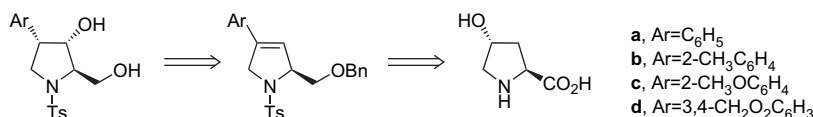
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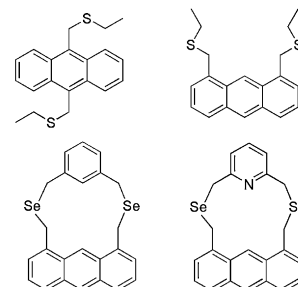
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Yoon Ju Lee, Dongwon Seo, Ji Young Kwon, Guiyoup Son, Min Sun Park, Yun-Hee Choi, Jung Hyun Soh, Ha Na Lee, Kap Duk Lee\* and Juyoung Yoon\*

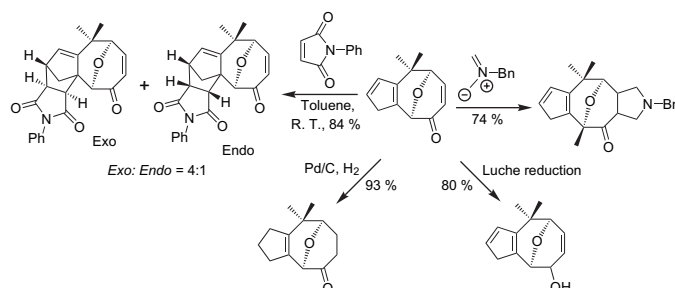
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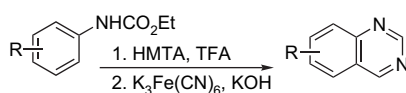
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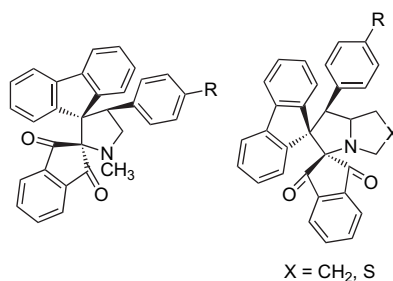
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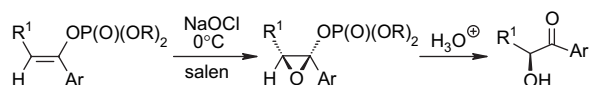
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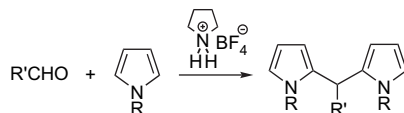
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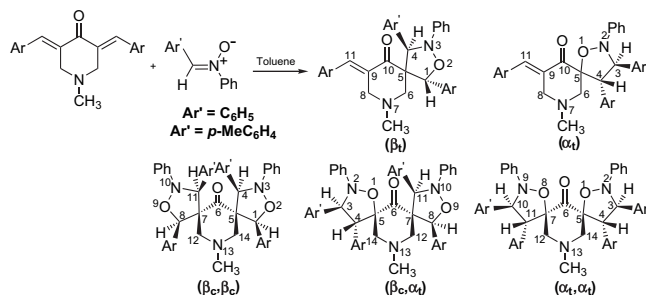
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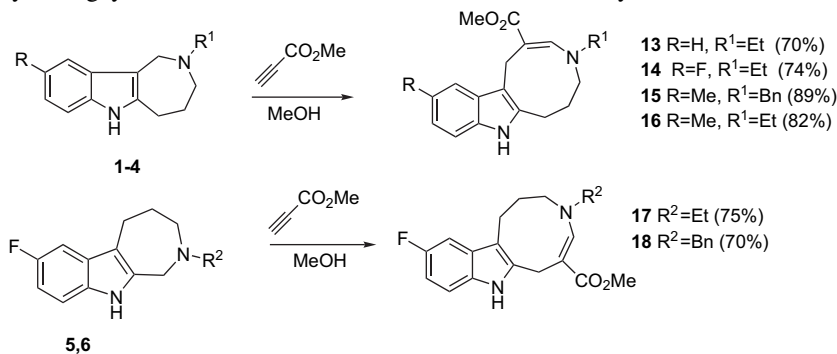
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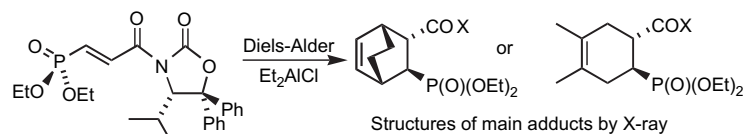
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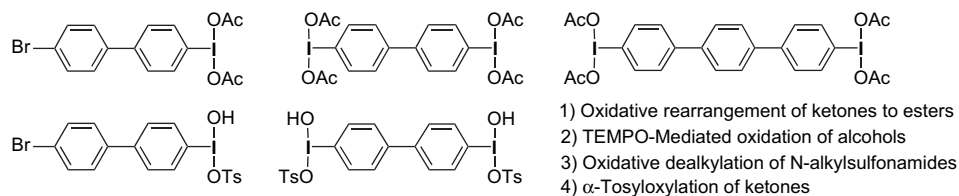




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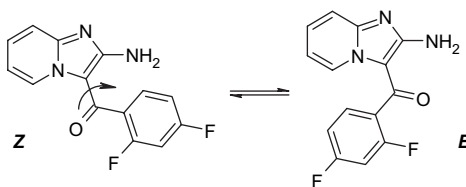
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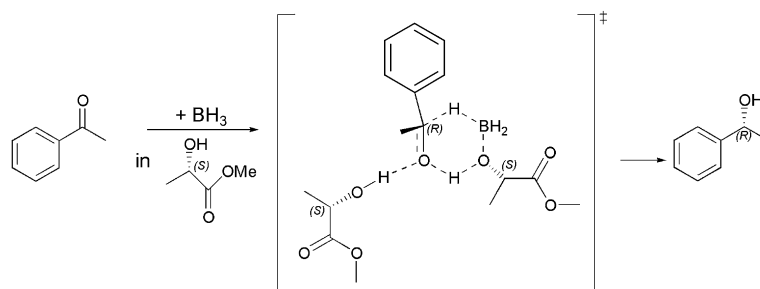
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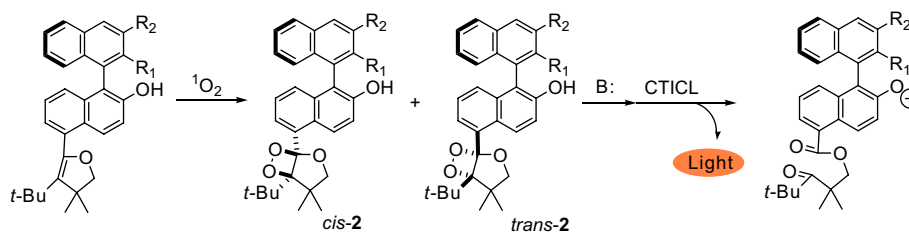
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+ Supplementary data available via ScienceDirect

**COVER**

Musk or violet? The answer to this question asked in the title of the featured paper by Philip Kraft and Kasim Popaj is: both, musk and violet! The depicted target compound (*3E,5E*)-5-*tert*-butyl-7-methylocta-3,5-diene-2-one actually combines a typical musk odor with the characteristic ionone scent of violets, and this is illustrated also graphically by pictures of musk grains and violets (*Viola odorata* L., by courtesy of Roman Kaiser, Givaudan) that fade into a background, where green and violet tones run into one another. As shown on the right hand side, this as well as three other target molecules were designed as *seco*-structures to a musky carotol-derived lead structure. And indeed by this *seco*-design a whole new family of musk odorants with different shades of violet notes intertwined was discovered. The six-step synthetic route to these new, sterically highly demanding dienones consists of coupling branched alkyl magnesium with isovaleryl and 3,3-dimethylbutanoyl chloride, Grignard reaction of the resulting products with ethynyl magnesium bromide, dehydration and transformation into a Grignard reagent, subsequent reaction with acetaldehyde, (*E*)-selective hydrogenation, and concluding PCC oxidation. *Tetrahedron* **2006**, *62*, 12211–12219.

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