

AIMS AND SCOPE

While total synthesis reached extraordinary levels of sophistication in the last century, the development of practical and efficient synthetic methodologies is still in its infancy. The goal of achieving chemical reactions that are economical, safe, environmentally benign, resource- and energy-saving will demand the highest level of scientific creativity, insight and understanding in a combined effort by academic and industrial chemists.

Advanced Synthesis & Catalysis is designed to stimulate and advance that process by focusing on the development and application of efficient synthetic methodologies and strategies in organic, bioorganic, pharmaceutical, natural product, macromolecular and materials chemistry. The targets of synthetic studies can range from natural products and pharmaceuticals to macromolecules and organic materials. While catalytic methods based on metal complexes or enzymes play an ever increasing role in achieving synthetic efficiency, all areas of interest to the practical synthetic chemist fall within the purview of *Advanced Synthesis & Catalysis*, including synthesis design, reaction techniques, separation science and process development.

Contributions from industrial and governmental laboratories are highly encouraged. It is the goal of the journal to help initiate a new era of chemical science, based on the efforts of synthetic chemists and on interdisciplinary collaboration, so that chemistry will make an even greater contribution to the quality of life than it does now.

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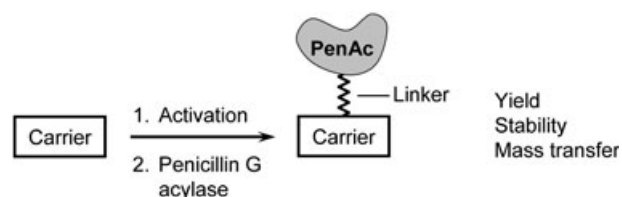
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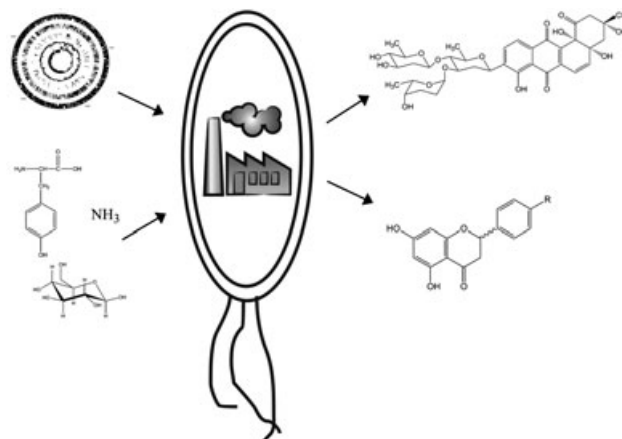
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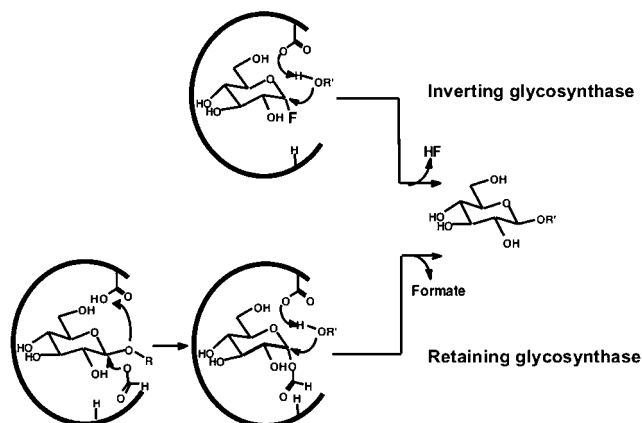
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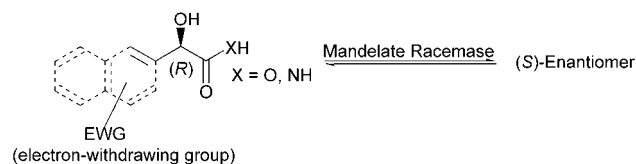
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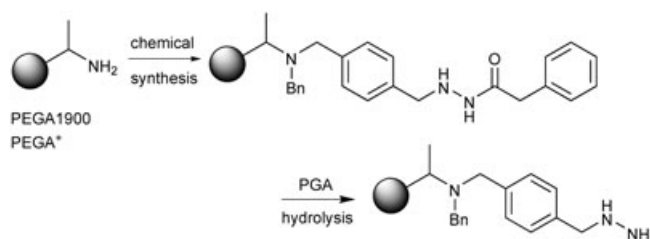


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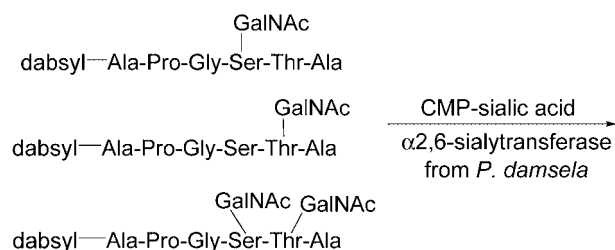


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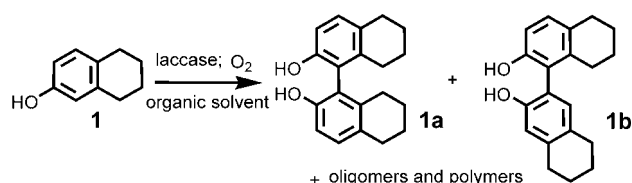


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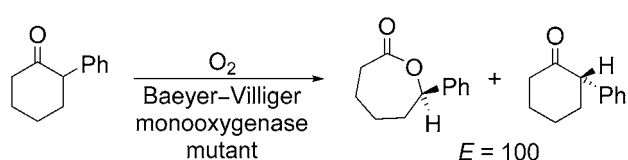
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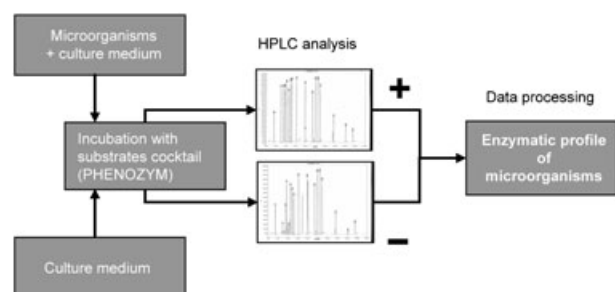
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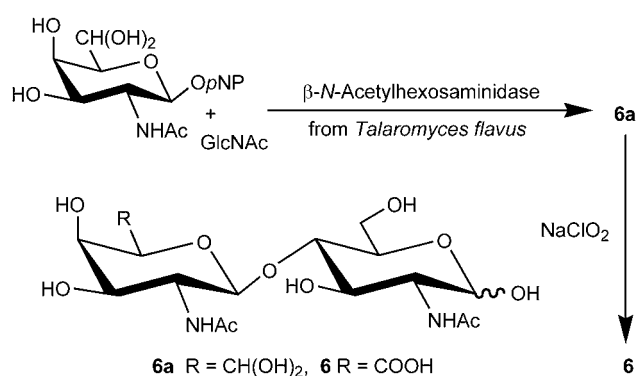


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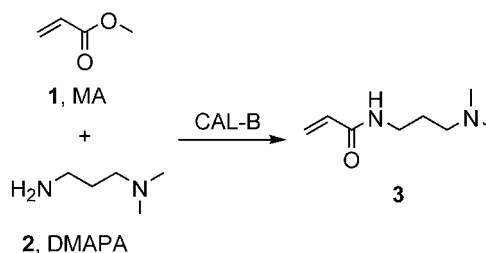


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- 1007** Study of the Chemoselectivity in the Aminolysis Reaction of Methyl Acrylate Catalysed by Lipase B from *Candida antarctica*

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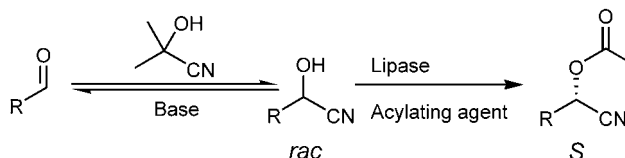
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- 1015** Optimisation of the Enantioselective Synthesis of Cyanohydrin Esters

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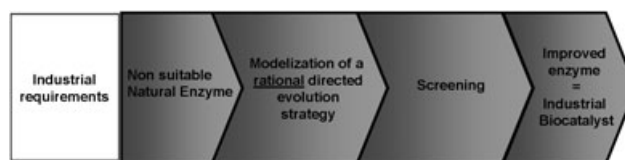
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- 1022** Rational Strategies for Directed Evolution of Biocatalysts – Application to *Candida antarctica* lipase B (CALB)

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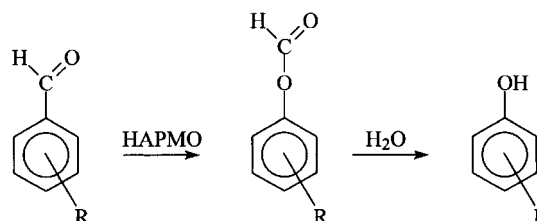
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- 1027** Enzymatic Baeyer–Villiger Oxidation of Benzaldehydes

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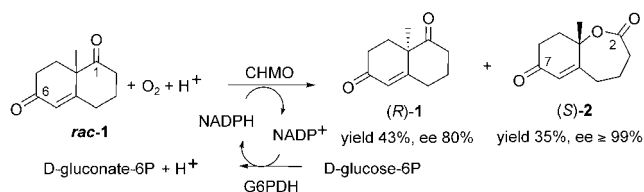
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- 1035** Enzymatic Baeyer–Villiger Oxidation of Bicyclic Diketones

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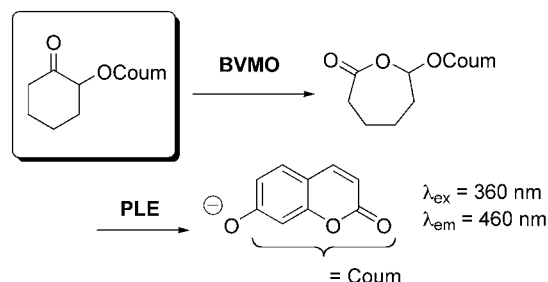


- 1041** A Fluorescence-Based Assay for Baeyer–Villiger Monooxygenases, Hydroxylases and Lactonases

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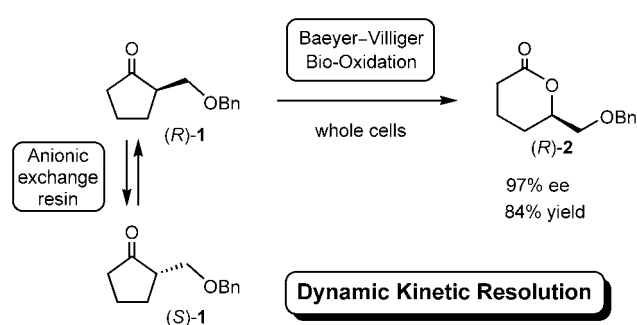


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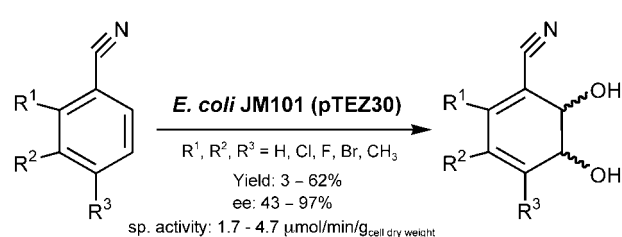
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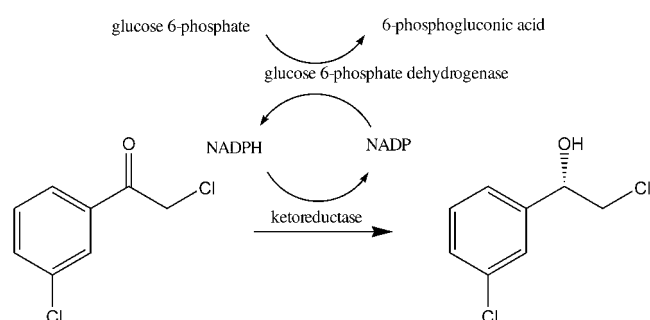
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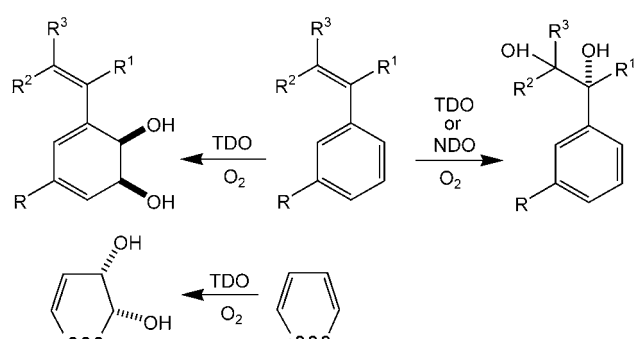


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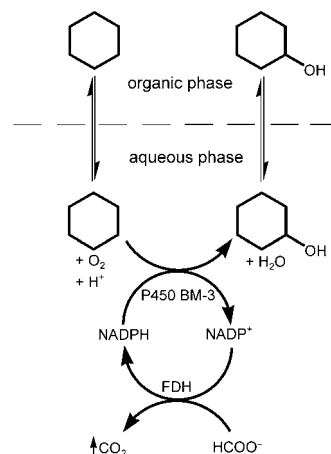
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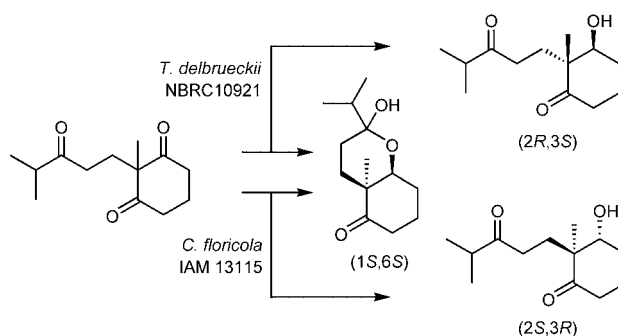
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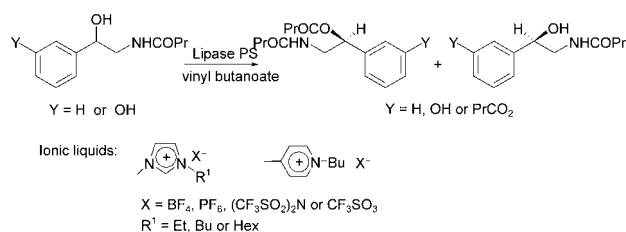
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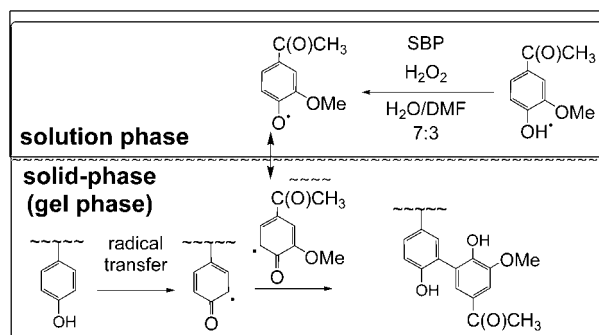
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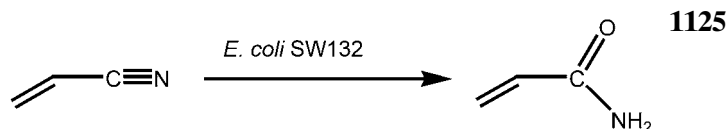
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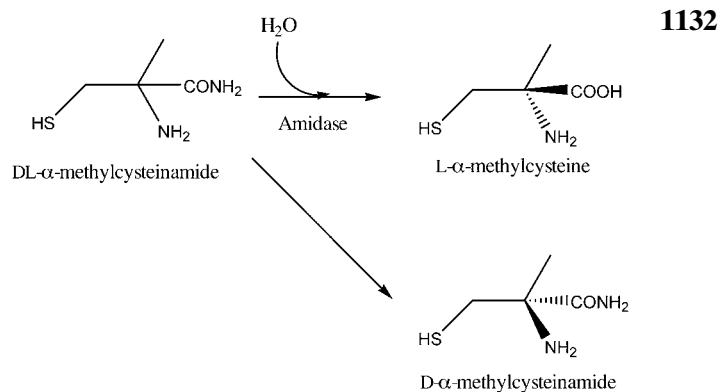
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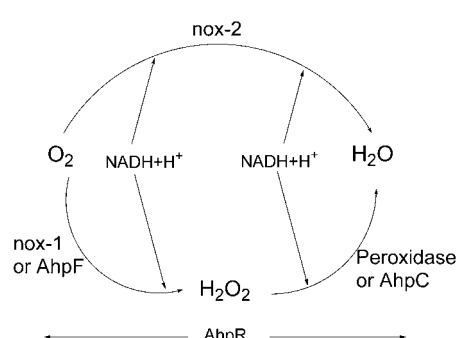


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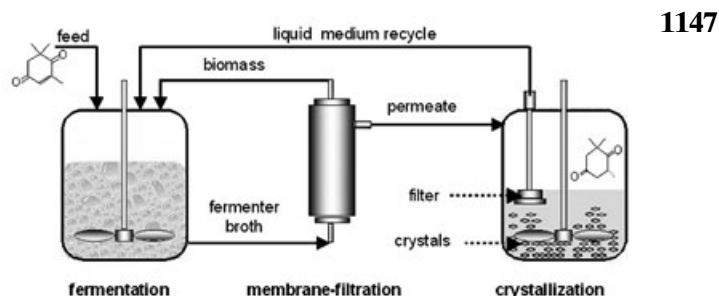
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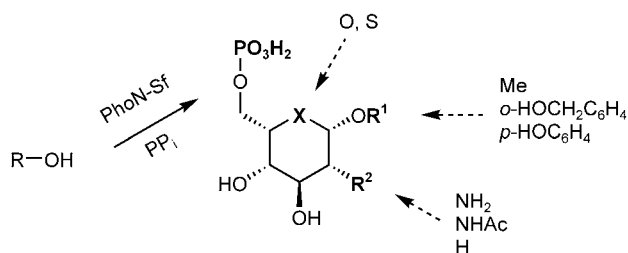


- 1155** Regioselective Phosphorylation of Carbohydrates and Various Alcohols by Bacterial Acid Phosphatases; Probing the Substrate Specificity of the Enzyme from *Shigella flexneri*

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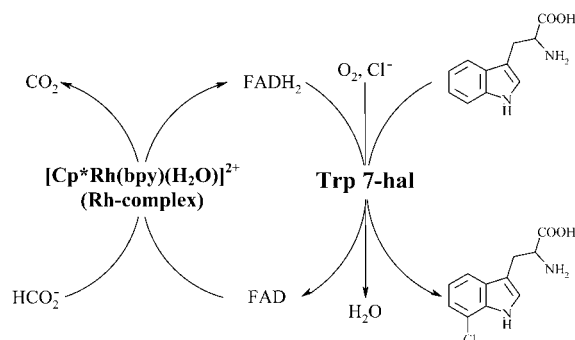
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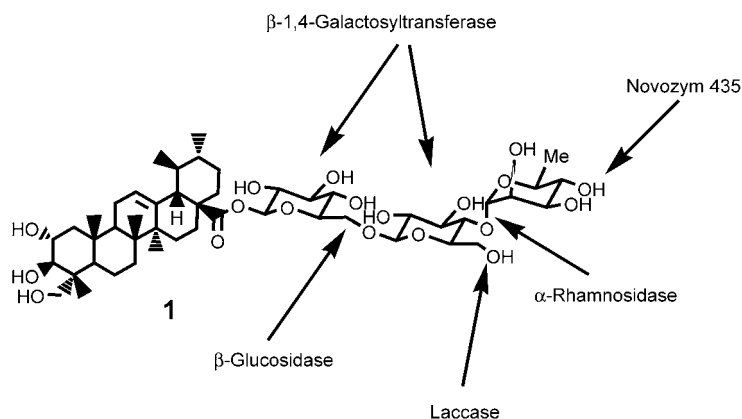


- 1168** Biocatalyzed Generation of Molecular Diversity: Selective Modification of the Saponin Asiaticoside

Adv. Synth. Catal. **2005**, 347, 1168–1174



Daniela Monti, Andrea Candido, M. Manuel Cruz Silva, Vladimír Křen, Sergio Riva,* Bruno Danieli



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