


Review: JACS, 1997

Ruben Eckermann

Group seminar Kalesse & Gaich
16.11.2011



Kalesse & Gaich Seminar

16.11.2011
JACS 1997
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Publication Record


- 12987 pages
- 2754 papers in total
- 40 „Total Syntheses“ as research topic

Notable events

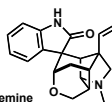
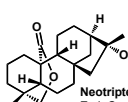
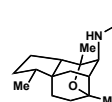
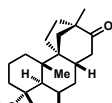
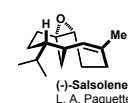
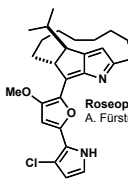
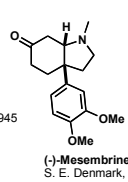
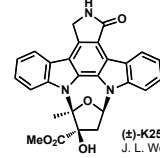
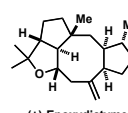
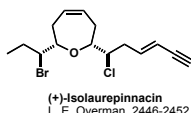
- Tony Blair got Prime Minister & Bill Clinton began his 2nd term
- Funeral of Diana, Princess of Wales
- clone sheep Dolly got presented
- Fuck parade in Berlin was established as protest against the commercialization of the Love parade
- Mutter Teresa died

Most cited papers

- 1) (1336) Epitaxial Growth of Highly Luminescent CdSe/CdS Core/Shell Nanocrystals with Photostability and Electronic Accessibility
By Peng, Xiaogang; Schlamp, Michael C.; Kadavanich, Andreas V.; Alivisatos, A. P. From Journal of the American Chemical Society (1997), 119(30), 7019-7029.
- 2) (790) How Easily Oxidizable Is DNA? One-Electron Reduction Potentials of Adenosine and Guanosine Radicals in Aqueous Solution
By Steenken, Steen; Jovanovic, Slobodan V. From Journal of the American Chemical Society (1997), 119(3), 617-618.
- 3) (738) Controlled/"Living" Radical Polymerization. Kinetics of the Homogeneous Atom Transfer Radical Polymerization of Styrene
By Matyjaszewski, Krzysztof; Patten, Timothy E.; Xia, Jianhui From Journal of the American Chemical Society (1997), 119(4),674-680.


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Detailed Syntheses	Concise Syntheses
 <p>(+)-Gelsimine S. Atarashi, 6226-6241</p>  <p>Neotripterifordin E. J. Corey, 9929-9930</p>	 <p>Hispidospermidin S. J. Danishefsky, 6686-6687</p>
 <p>(+)-Scopadulcic acid B L. E. Overman, 12031-12040</p>  <p>(-)-Salsolene Oxide L. A. Paquette, 2767-2768</p>	 <p>Roseophilin A. Fürstner, 2944-2945</p>  <p>(-)-Mesembrine S. E. Denmark, 1675-1686</p>
 <p>(+)-K252a J. L. Wood, 9641-9651</p>	 <p>(+)-Epoxydictymene L. A. Paquette, 8438-8450</p>  <p>(+)-Isolaurepinnacin L. E. Overman, 2446-2452</p>

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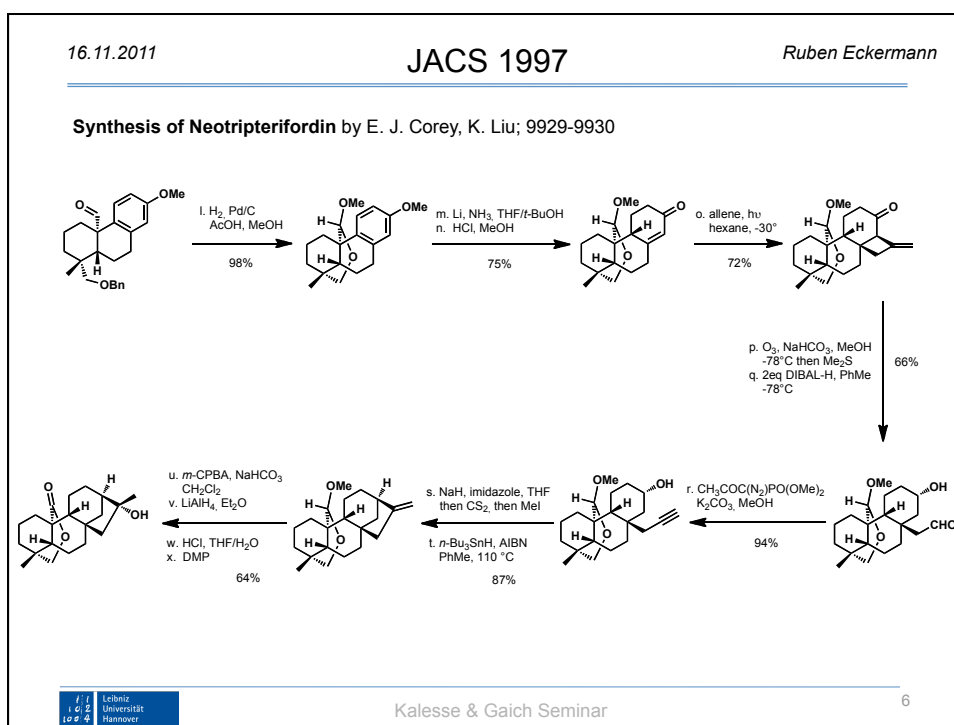
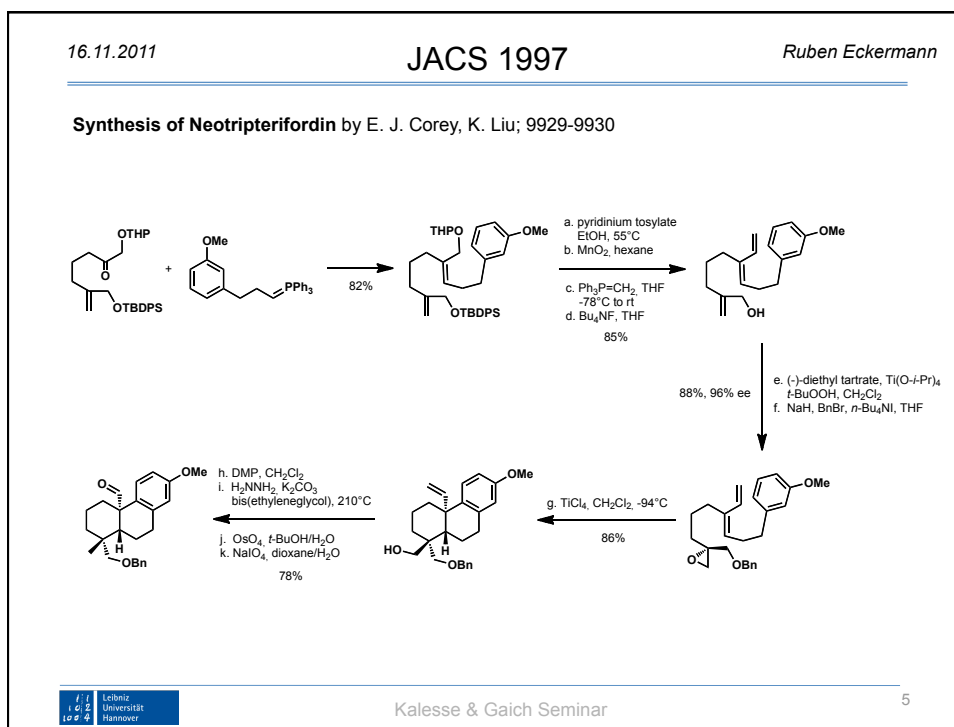
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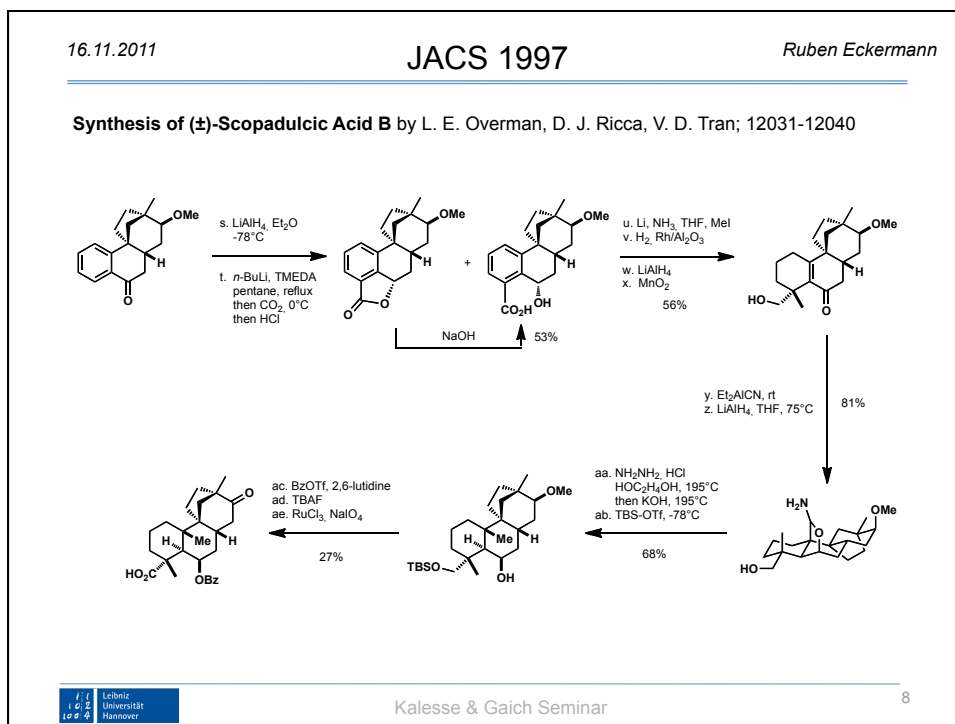
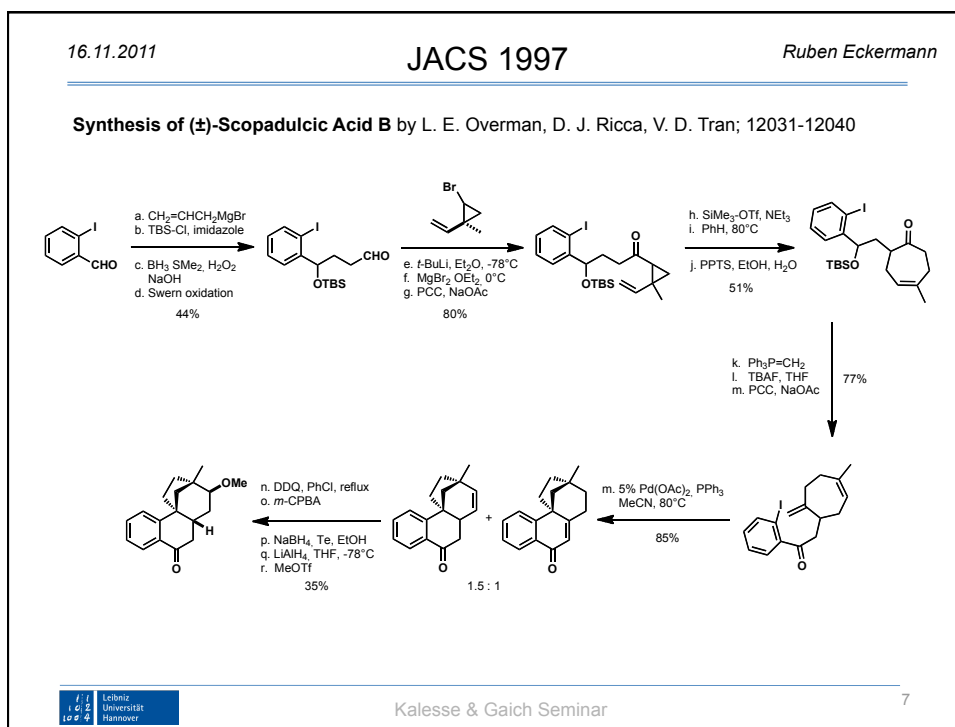
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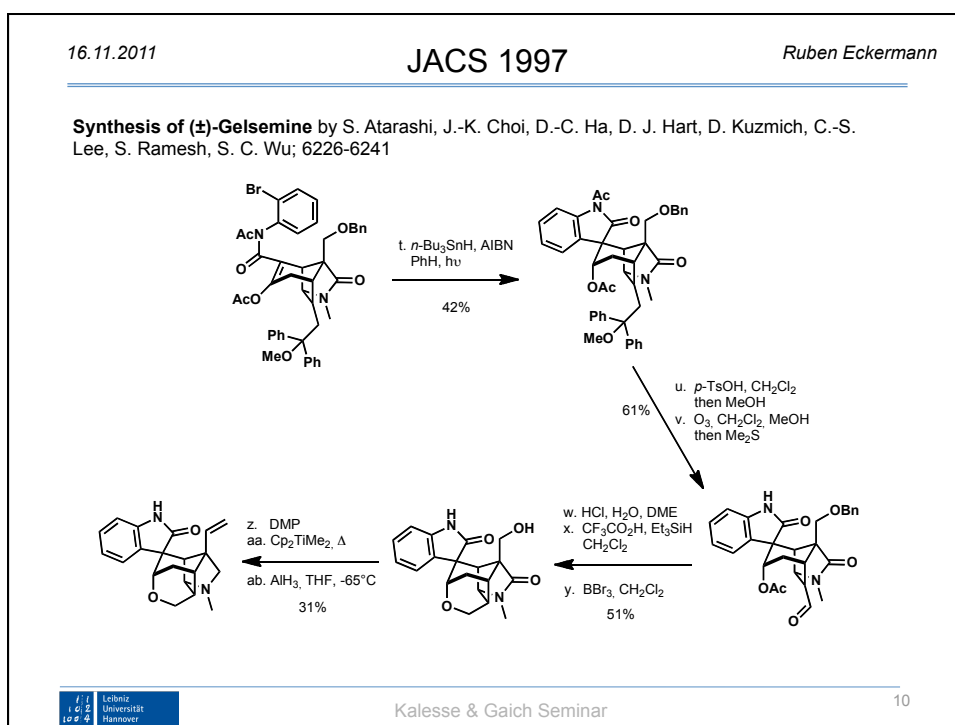
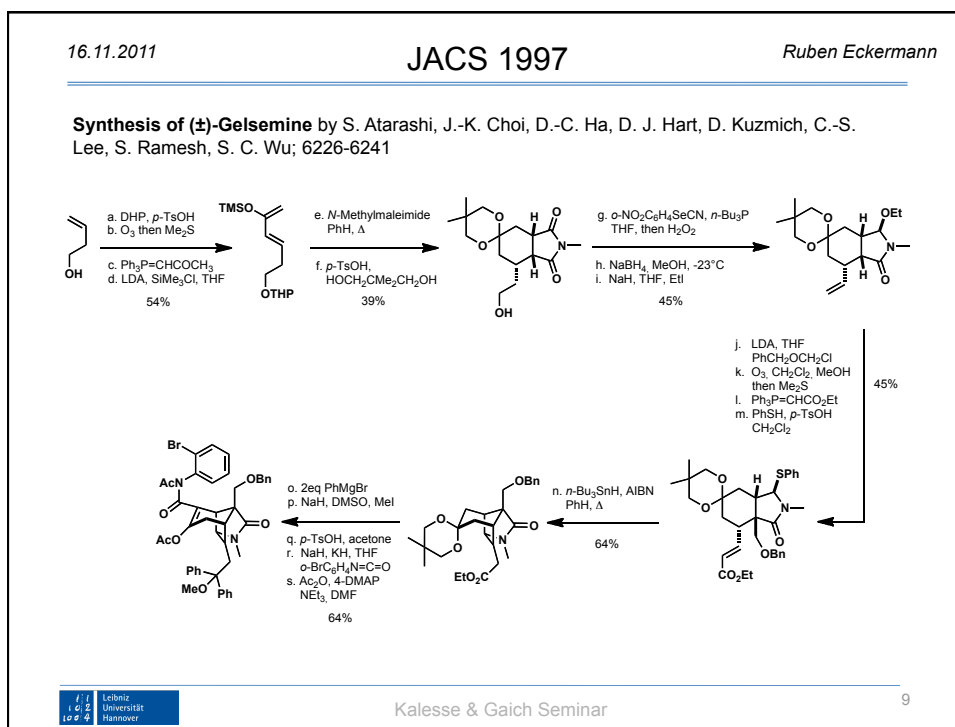
Detailed Syntheses

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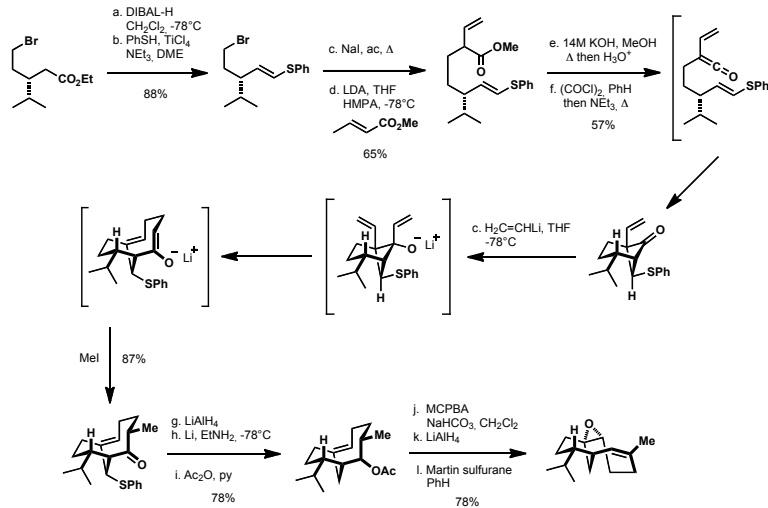


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Synthesis of (-)-Salsolene Oxide by L. A. Paquette, L.-Q. Sun, T. J. N. Watson, D. Friedrich, B. T. Freeman; 2767-2768



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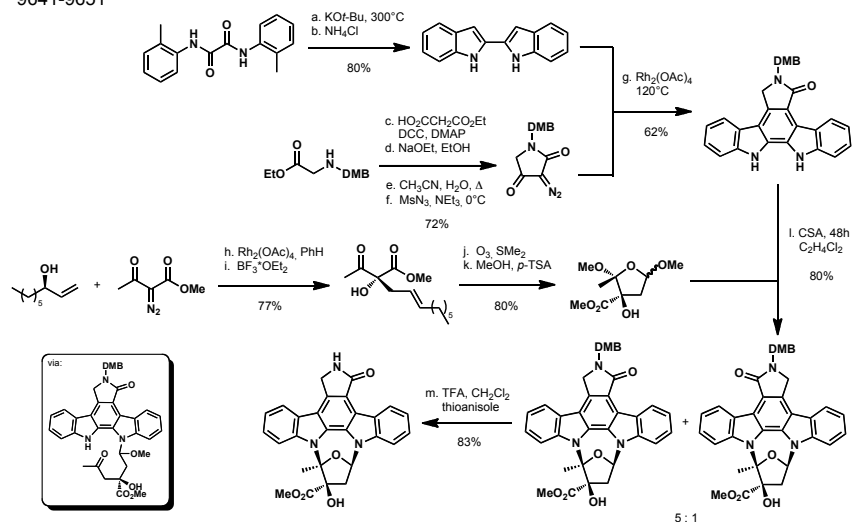
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Synthesis of (+)-K252 by J. L. Wood, B. M. Stoltz, H.-J. Dietrich, D. A. Pflum, D. T. Petsch; 9641-9651



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Concise Syntheses

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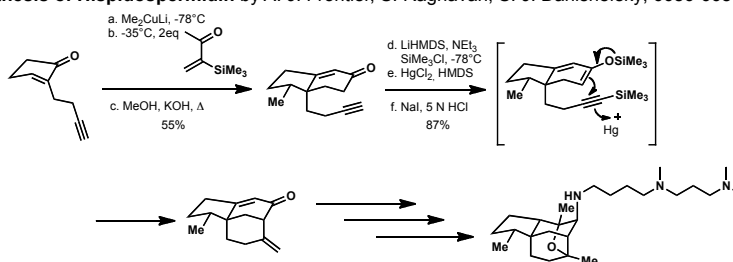
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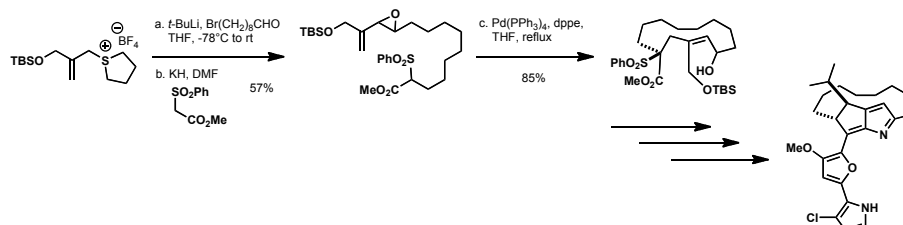
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Synthesis of Hispidospermidin by A. J. Frontier, S. Raghavan, S. J. Danishefsky; 6686-6687



Synthesis of Roseophilin by A. Fürstner, H. Weintritt; 2944-2945



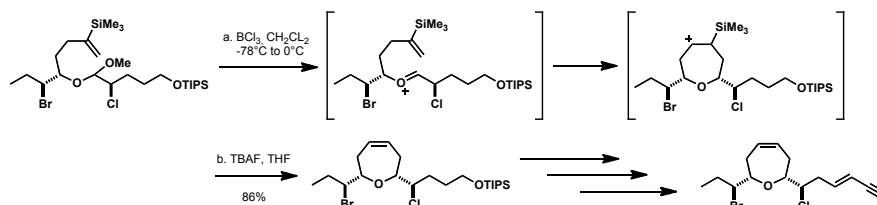
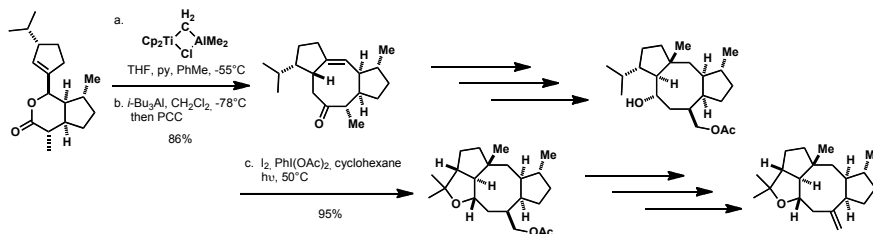
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Synthesis of (+)-Isolaurepinnacin by D. Berger, L. E. Overman, P. A. Renhowe; 2446-2452**Synthesis of Epoxydictymene** by L. A. Paquette, L.-Q. Sun, D. Friedrich, P. B. Savage; 8438-8450Leibniz
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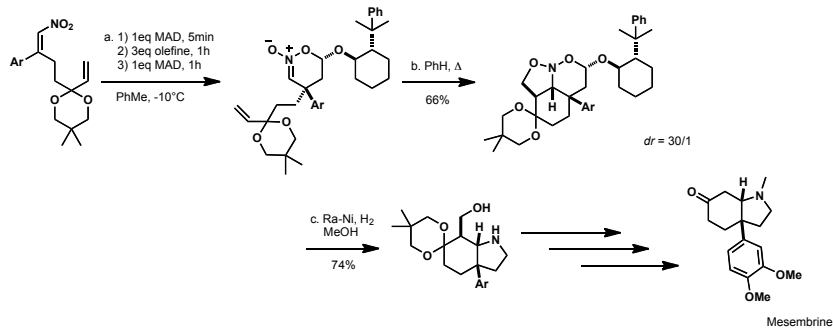
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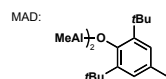
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Synthesis of (-)-Mesembrine by S. E. Denmark, L. R. Marcin; 1675-1686

Ar = 3,4-dimethoxyphenyl

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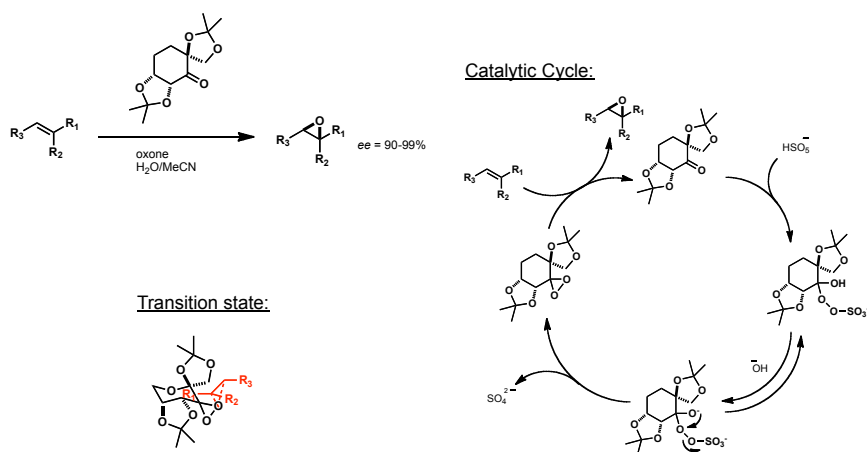
Methods

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Asymmetric Epoxidation by Z.-X. Wang, Y. Tu, M. Frohn, J.-R. Zhang, Y. Shi; 11224-11235

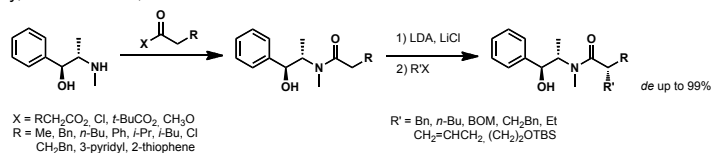


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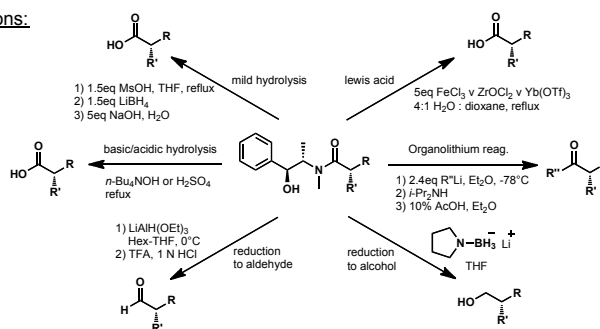
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Pseudoephedrine as a chiral auxiliary by A. G. Myers, B. H. Yang, H. Chen, L. McKinstry, D. J. Kopecky, J. L. Gleason; 6496-6511



Transformations:

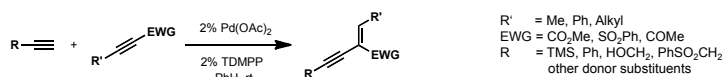


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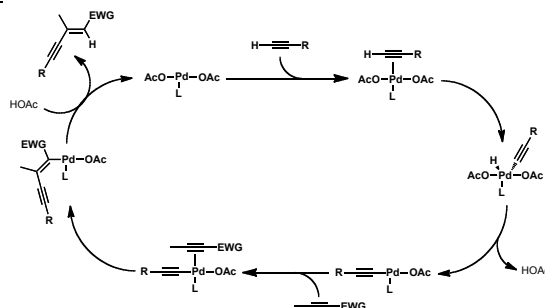
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Pd-catalyzed additions of terminal alkynes to acceptor alkynes by B. M. Trost, M. T. Sorum, C. Chan, A. E. Harms, G. Rühler; 698-708



TDMPP = tris(2,6-dimethoxyphenyl)phosphine

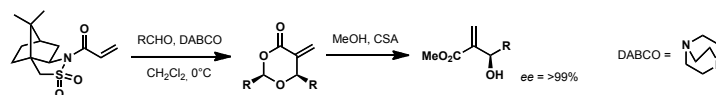
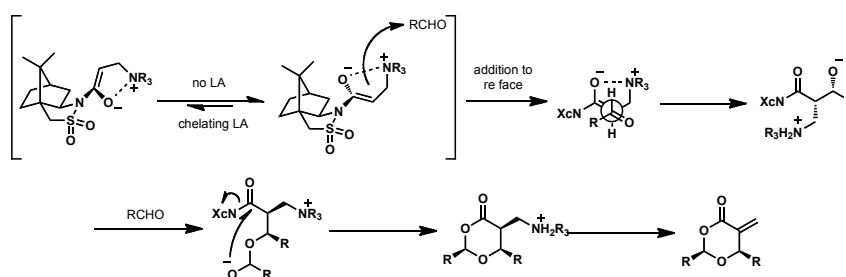
Catalytic Cycle:



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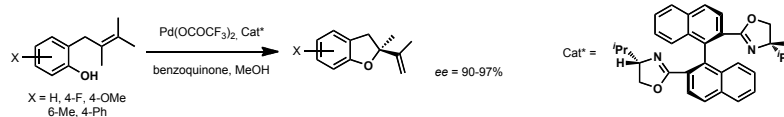
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Asymmetric Baylis-Hillman reaction by B. L. J. Brzezinski, S. Rafel, J. W. Leahy; 4317-4318Stereochemical induction:

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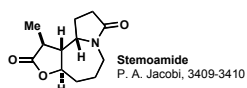
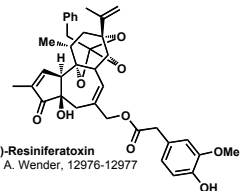
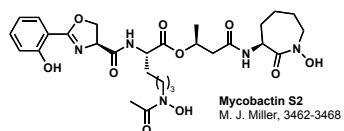
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Asymmetric Wacker-type cyclization by Y. Uozumi, K. Kato, T. Hayashi; 5063-5064

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Syntheses not
covered

