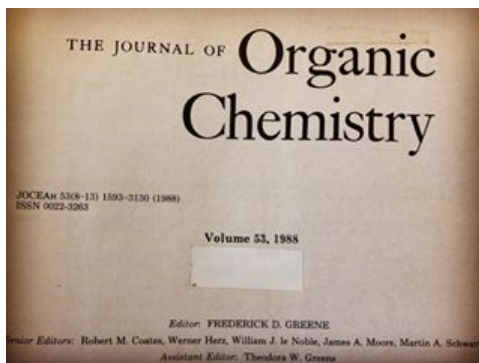


**General Stats**

Volume: 53  
 Issues: 26  
 Pages: 1-6162  
 Total Articles: 1437

**Publication Count:**

Paquette, L.A. (15)  
 Brown, H.C. (11)  
 Boger, D.L. (9)  
 Wenkert, E. (9)  
 Katritzky, A.R. (7)

**Top 5 Most Cited Papers****Thermally irreversible photochromic systems. Reversible photocyclization of diarylethene derivatives**

M. Irie, M. Masaaki. *J. Org. Chem.* **1988.** 53. 803-808

**Synthesis and reactivity toward acyl chlorides and enones of the new highly functionalized copper reagents RCu(CN)ZnI**

P. Knochel, M.C. Yeh, S. Berk, J. Talbert. *J. Org. Chem.* **1988.** 53. 2390-2392

**Hydrogen peroxide oxidation catalyzed by heteropoly acids combined with cetylpyridinium chloride. Epoxidation of olefins and allylic alcohols, ketonization of alcohols and diols, and oxidative cleavage of 1, 2- diols and olefins**

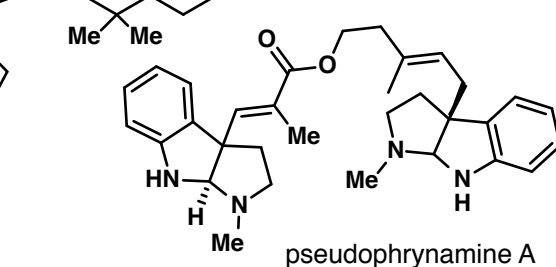
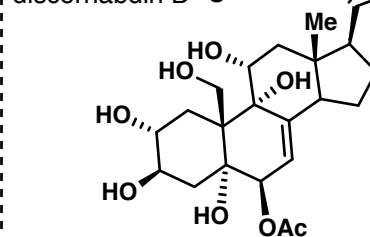
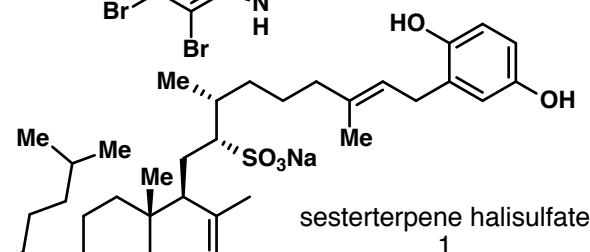
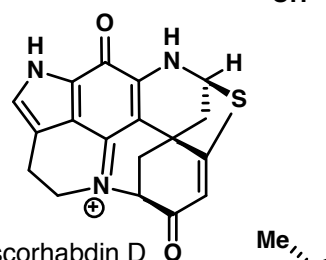
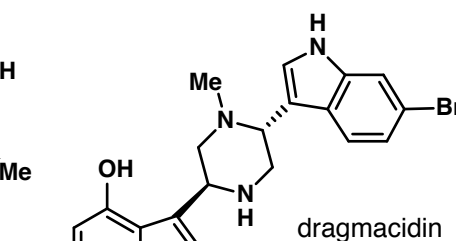
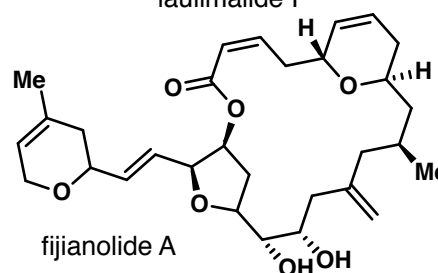
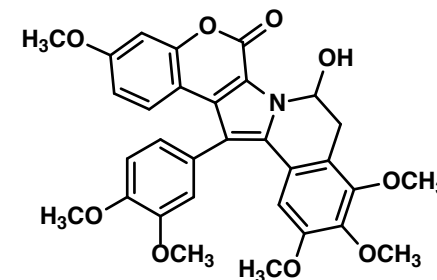
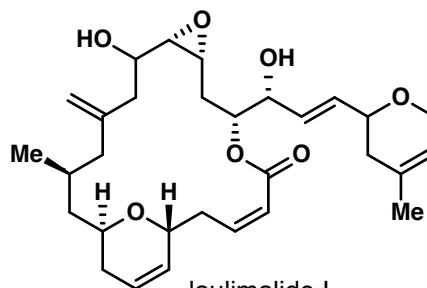
Y. Ishii, K. Yamawaki, T. Ura, H. Yamada, T. Yoshida, M. Ogawa. *J. Org. Chem.* **1988.** 53. 3587-3593

**Cross-coupling of organosilanes with organic halides mediated by a palladium catalyst and tris(diethylamino) sulfonium difluorotrimethylsilicate**

T. Hiyama, Y. Hatanaka. *J. Org. Chem.* **1988.** 53. 918-920

**Quaternary ammonium tetrakis(diperoxotungsto) phosphates(3-) as a new class of catalysts for efficient alkene epoxidation with hydrogen peroxide**

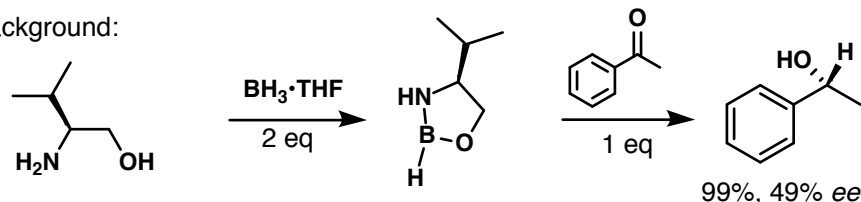
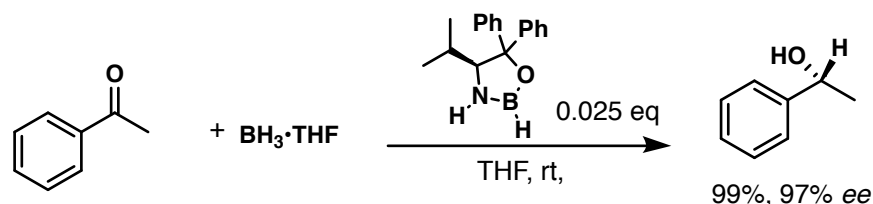
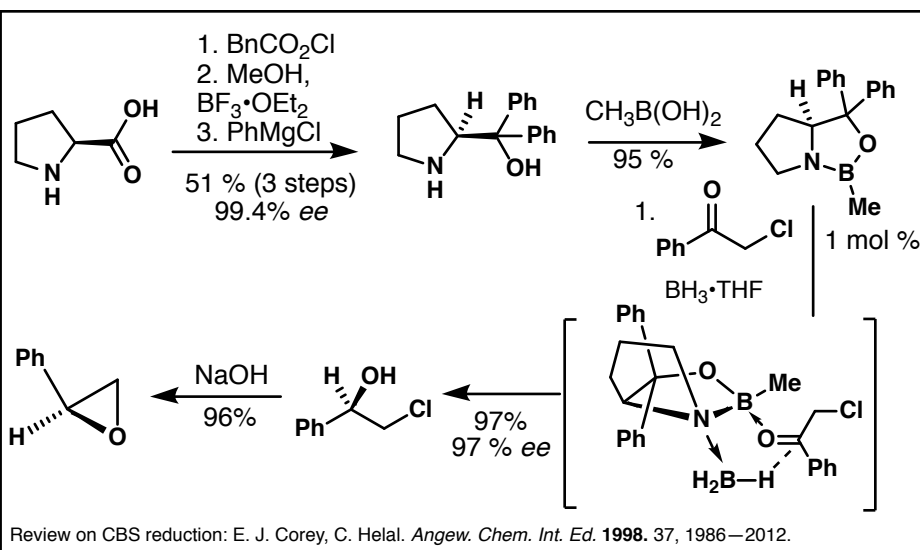
C. Venturello, R. D'Aloisio. *J. Org. Chem.* **1988.** 53. 1553-1557

**Selected Isolations:**

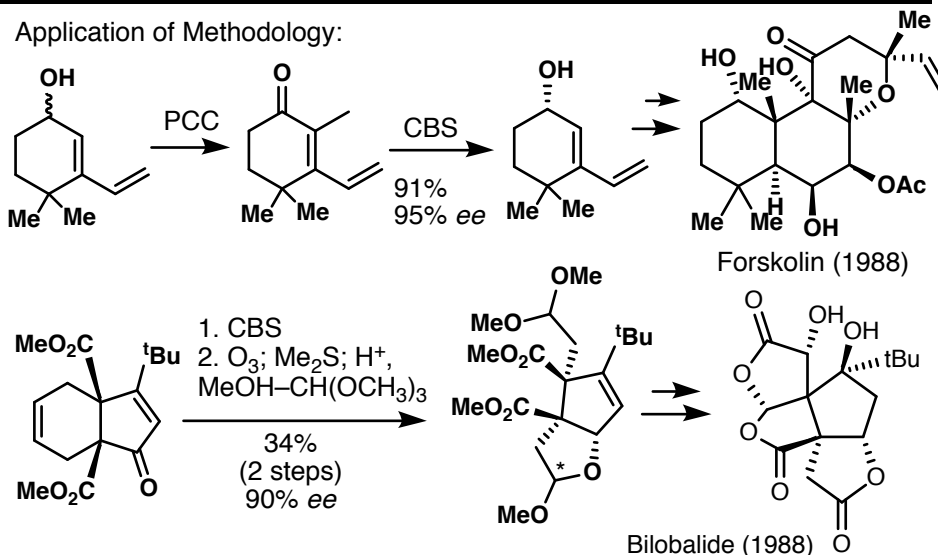
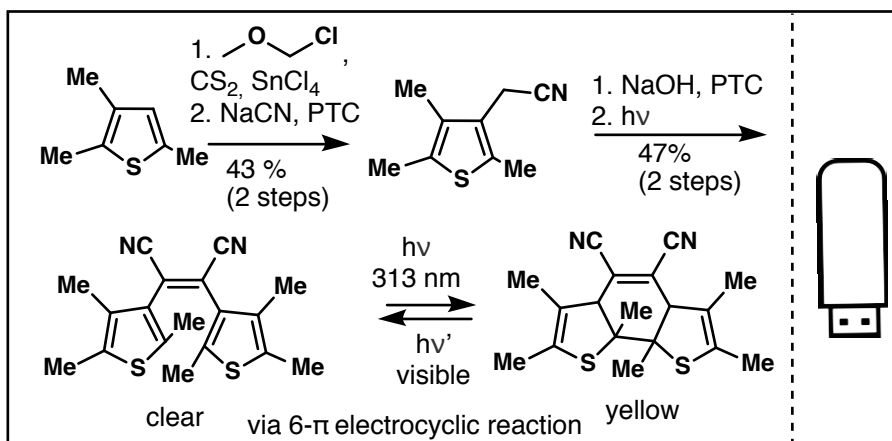
Not shown: scytonemins, calyculins, lejimalides, prianosins, minabeolides

**An Efficient and Catalytically Enantioselective Route to (S)-(-)-Phenyloxirane**E.J. Corey, S. Shibata, R.K. Bakshi. *J. Org. Chem.* **1988**, 53, 2861-2863.

Background:

Itsuno et al. *J. Chem. Soc., Chem. Commun.*, **1981**, 10, 315–317.E. J. Corey, R. K. Bakshi, S. Shibata, C.P. Chen, and V. K. Singh. *J. Am. Chem. Soc.* **1987**, 109, 7925–7926; E. J. Corey, R.K. Bakshi, and S. Shibata. *J. Am. Chem. Soc.* **1987**, 109, 5551–5553.Review on CBS reduction: E. J. Corey, C. Helal. *Angew. Chem. Int. Ed.* **1998**, 37, 1986–2012.

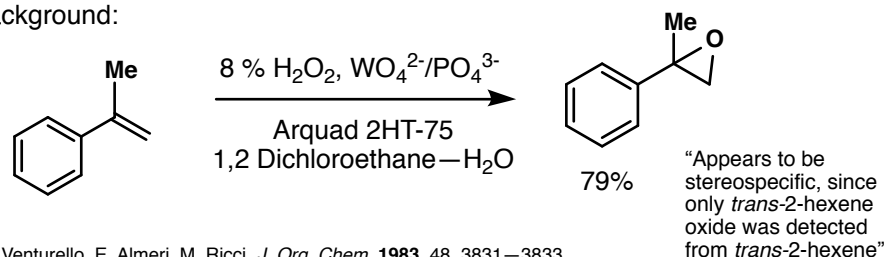
Application of Methodology:

E. J. Corey, W. Su. *Tetrahedron Letters* **1988**, 29, 3423–3426; E. J. Corey, P.D. Jardine, T. Mohri. *Tetrahedron Letters* **1988**, 29, 6409–6412.**Thermally Irreversible Photochromic Systems. Reversible Photocyclization of Diarylethene Derivatives**M. Irie, S. Nakamura. *J. Org. Chem.* **1988**, 53, 6136-6138.Useful Reviews include: M. Irie. *Chem. Rev.* **2000**, 100, 1685–1716; Y. Kawata, S. Kawata. *Chem. Rev.* **2000**, 100, 1777–1788. H. Stefan, M. Kathan. *Chem. Soc. Rev.*, **2017**, 46, 5536–5540.

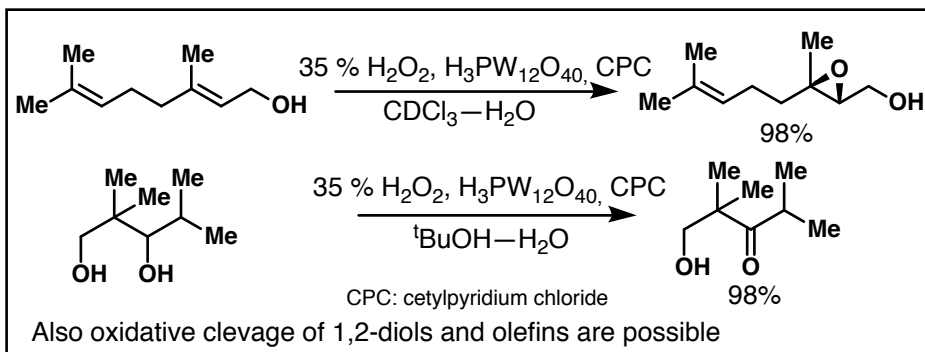
**Hydrogen Peroxide Oxidation Catalyzed by Heteropoly Acids Combined with Cetylpyridinium Chloride: Epoxidation of Olefins and Allylic Alcohols, Ketonization of Alcohols and Diols, and Oxidative Cleavage of 1,2-Diols and Olefins**

M. Ogawa, Y. Ishii, K. Yamawaki, T. Ura, H. Yamada, T. Yoshida. *J. Org. Chem.* **1988**, 53, 3587–3593.

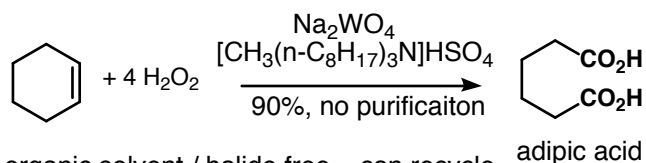
Background:



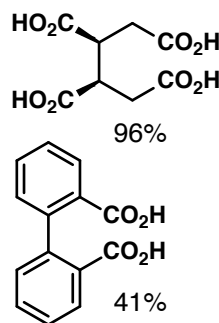
C. Venturello, E. Almeri, M. Ricci. *J. Org. Chem.* **1983**, 48, 3831–3833.



Application of Methodology:



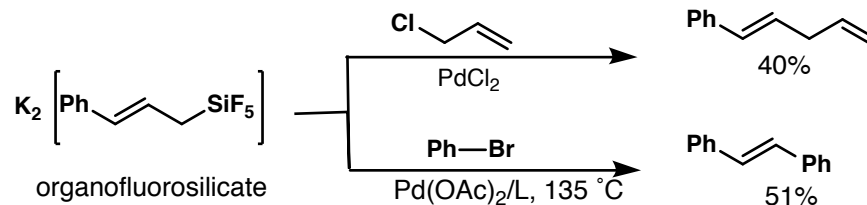
R. Noyori, K. Sato, M. Aoki. *Science* **1998**, 281, 1646–1647.  
See also: X. Zuei et al. *Science* **2001**, 292, 1139–1141; Mizuno et al. *Science* **2003**, 300, 964–966.



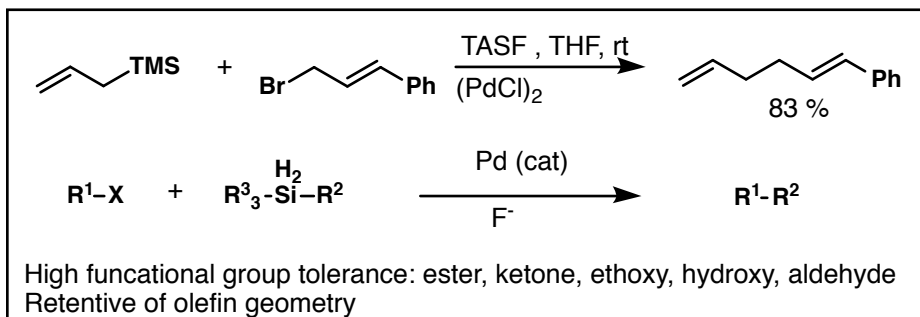
**Cross-Coupling of Organosilanes with Organic Halides Mediated by Palladium Catalyst and Tris(diethyl-1-amino)sulfonium Difluorotrimethylsilicate**

T. Hiyama, Y. Hatanaka. *J. Org. Chem.* **1988**, 53, 918–920.

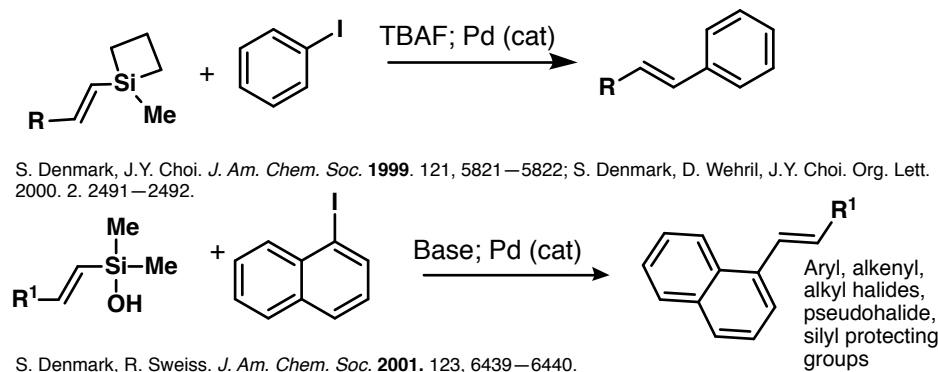
Background:



M. Kumada, J. Yoshida, K. Tamao, H. Yamamoto, T. Kakui, T. Uchida. *Organometallics* **1972**, 1, 1982.

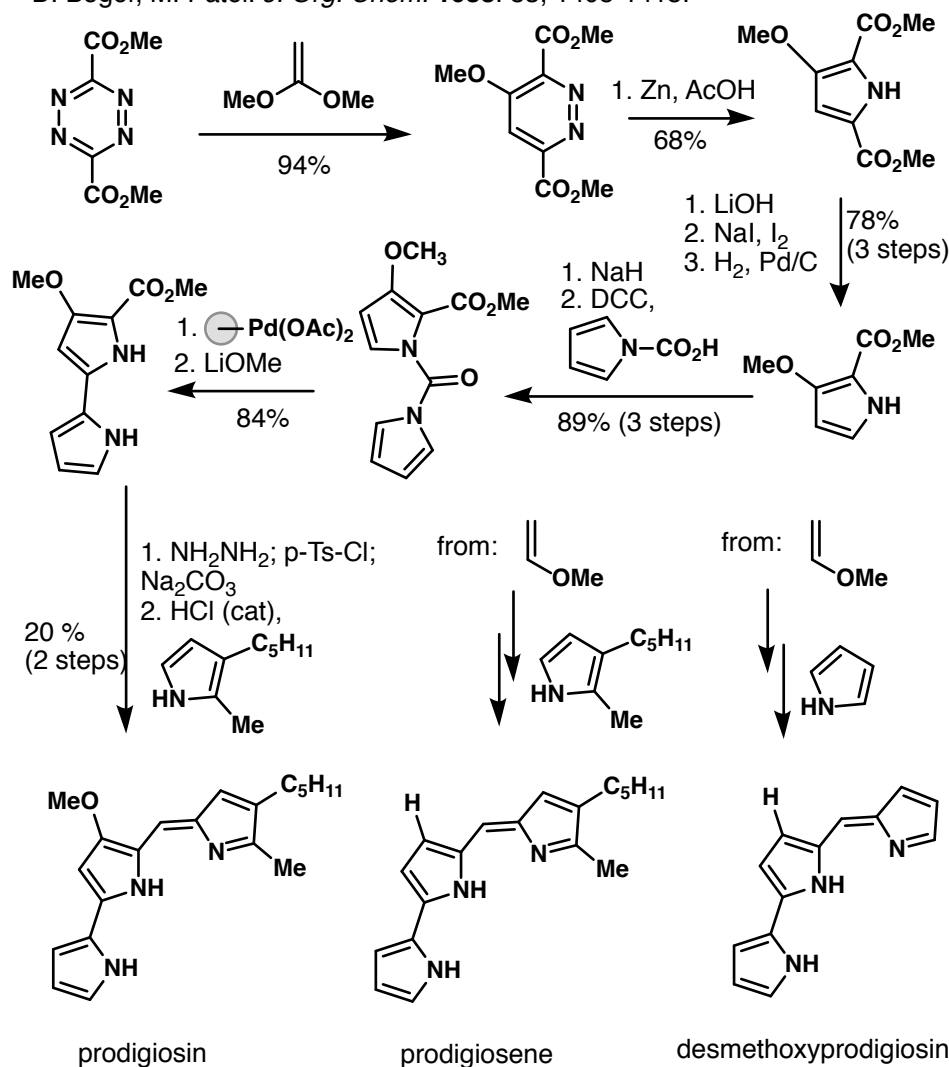


Further Development:



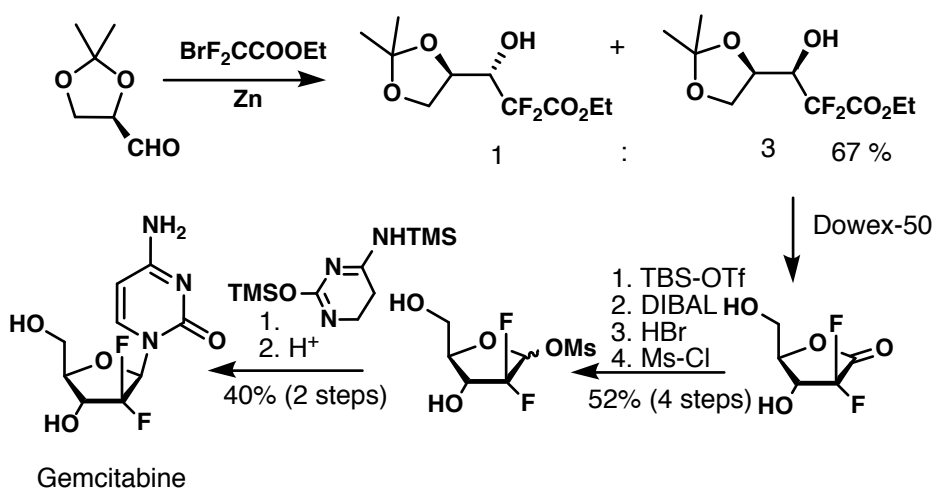
**Total Synthesis of Prodigiosin, Prodigiosene, and Desmethoxyprodigiosin: Diels-Alder Reactions of Heterocyclic Azadienes and Development of an Effective Palladium(II)-Promoted 2, B'-Bipyrrole Coupling Procedure**

D. Boger, M. Patel. *J. Org. Chem.* **1988**, 53, 1405-1415.



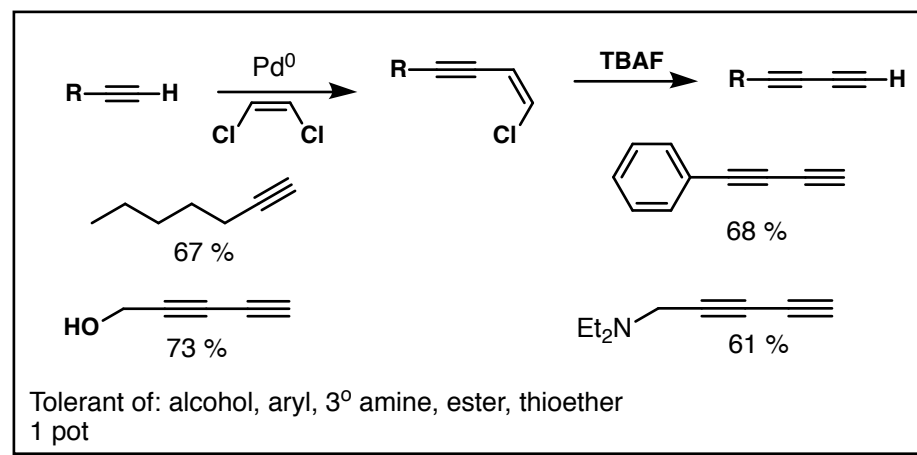
**Synthesis of 2-Deoxy-2,2-difluoro-D-ribose and 2-Deoxy-2,2-difluoro-D-ribofuranosyl Nucleosides**

L.W. Hertel, J.S. Kroin, J.W. Misner, J.M. Tustin. *J. Org. Chem.* **1988**, 53, 2406–2409.



**A Mild Synthesis of 1,3-Diynes**

C. Smith, A. Kende. *J. Org. Chem.* **1988**, 53, 2655–2657.

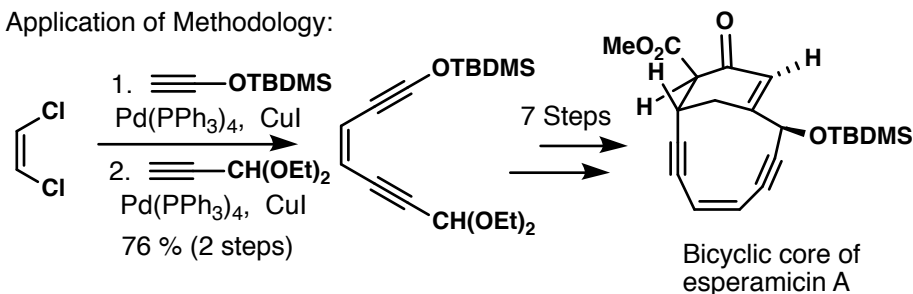


Khalyd Clay

**A Mild Synthesis of 1,3-Diynes** (continued)

C. Smith, A. Kende. *J. Org. Chem.* **1988**, 53, 2655-2657

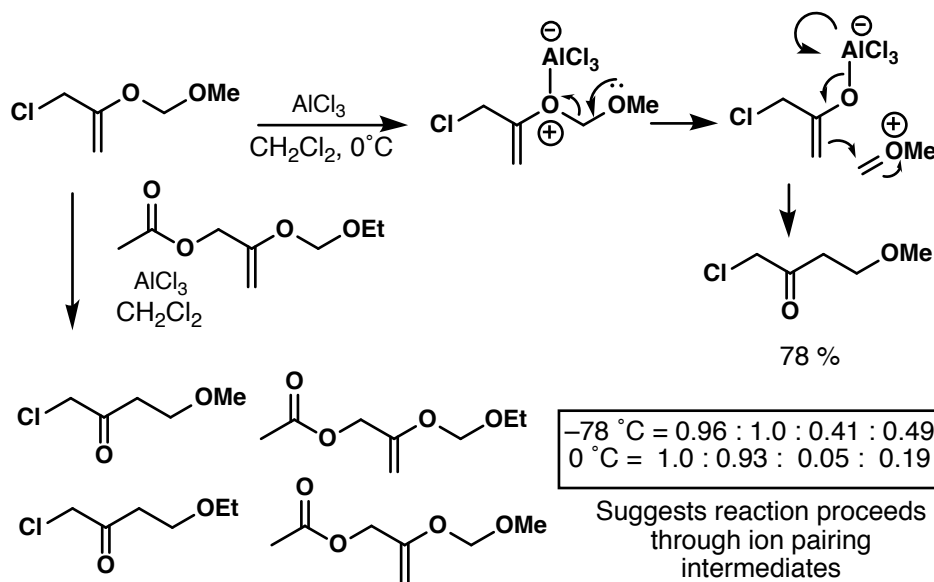
Application of Methodology:



S. Schreiber, L. Kiessling. *J. Am. Chem. Soc.* **1988**, 110, 631-633.

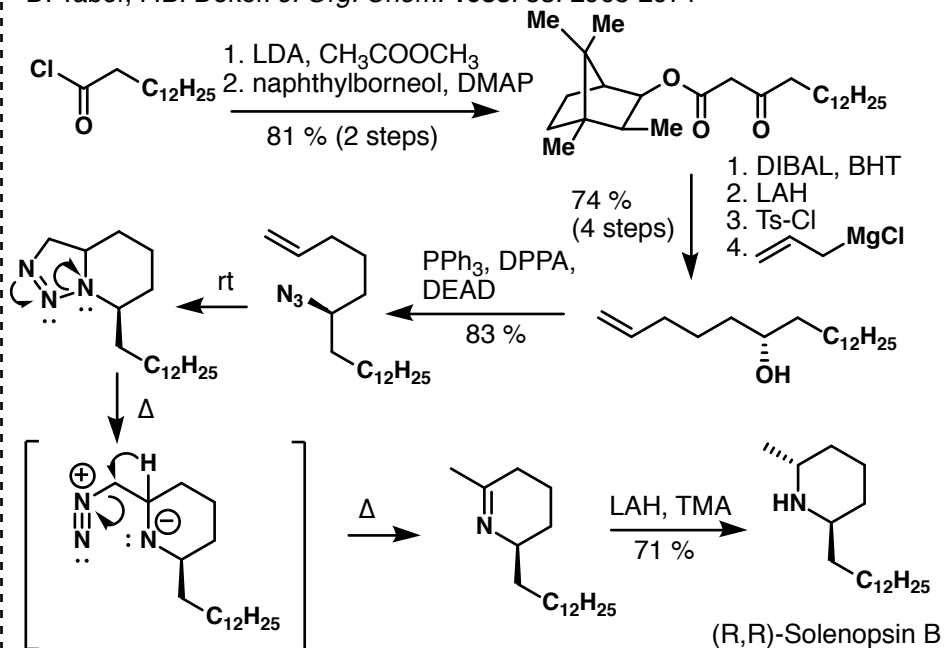
**New Type of 1,3-Molecular Rearrangement of Substituted-Vinyl Alkoxyethyl Ethers and Its Application to Synthesis of 1 (or 3)-Substituted 4-Alkoxybutan-2-ones**

M. Okahara, X.P. Gu, I. Ikeda. *J. Org. Chem.* **1988**, 53, 2737-2740.



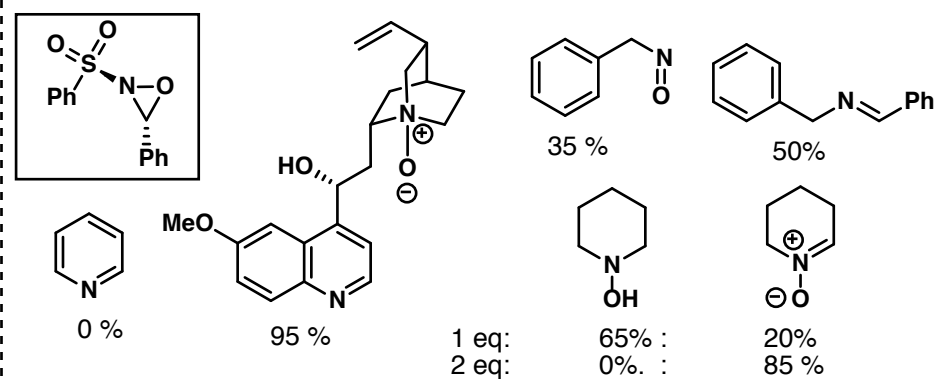
**Enantioselective Construction of Heterocycles: Synthesis of (R,R)-Solenopsin B**

D. Taber, P.B. Dekker. *J. Org. Chem.* **1988**, 53, 2968-2971



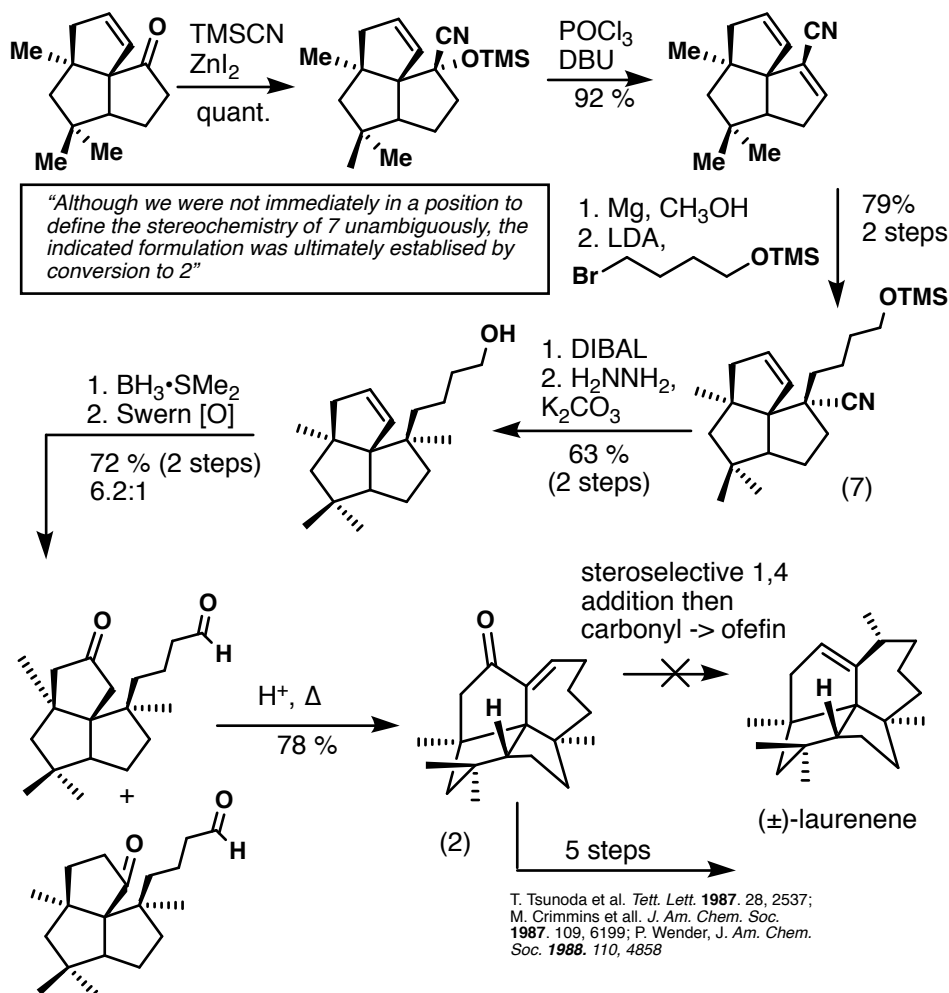
**Oxidation of Amines with 2-Sulfonyloxaziridines (Davis' Reagents)**

T. Walters, W.W. Zajac, M. G. Darcy. *J. Org. Chem.* **1988**, 53, 5857-5860.



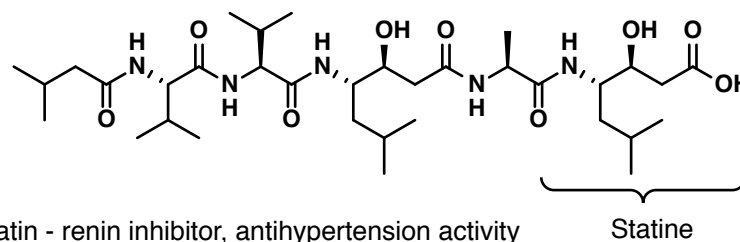
**A Formal Total Synthesis of (±)-Laurenene**

L. Paquette, M. Okazaki, J.C. Caille. *J. Org. Chem.* **1988.** 53, 477-481



**A Short and Efficient Synthesis of (3S,4S)-4[tert-Butyloxycarbonyl]amino]-5-cyclohexyl-3-hydropentanoic Acid Ethyl Ester**

P. Schuda, W. Greenlee, P.K. Chakravarty, P. Eskola. *J. Org. Chem.* **1988.** 53,873-875.



J. Boger, N. Lohr, E.H. Ulm, M. Poe, et al. *Nature.* **1983.** 303, 81-84.

