

## Publication Record (Total Synthesis):

- 1) Paquette, 16 (2)
- 2) Trost, 12 (2)
- 3) Danishefsky, 8 (7)
- 4) Nicolaou, 8 (5)
- 5) Myers, 5 (1)
- 6) Overman, 5 (1)
- 7) Yamamoto, 5 (0)
- 8) Corey, 4 (2)
- 9) Evans, 4 (1)

1988, vol 110

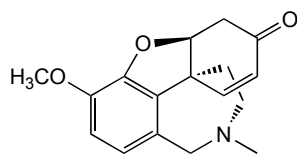
8744 Pages  
1894 Total Papers  
294 "Synthesis" Papers

## Comparative Molecular Field Analysis (CoMFA). 1. Effect of Shape on Binding of Steroids to Carrier Proteins.

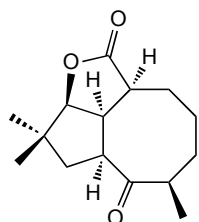
Cramer, 5959-5967

Most Cited Paper of the Year: 2186 Citations

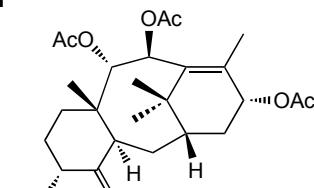
## Synthesis Covered



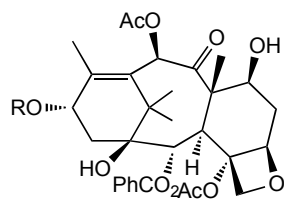
(±)-Narwedine  
Holton, 314-316



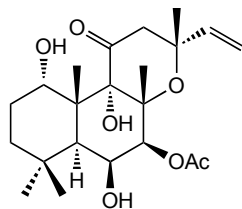
(+)-Asteriscanolide  
Wender, 5904-5906



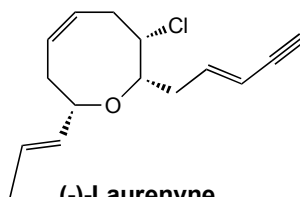
(-)-Taxusin  
Holton, 6558-6560



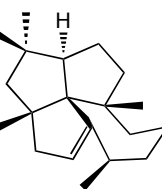
(-)-Taxol (semisynthesis)  
Potier, 5917-5919



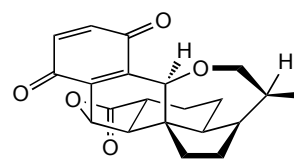
(±)-Forskolin  
Ikegami, 3670-3672  
Corey, 3672-3673



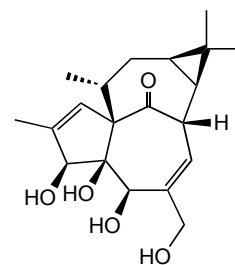
(-)-Laurenyne  
Overman, 2248-2256



(±)-Laurenene  
Wender, 4858-4860

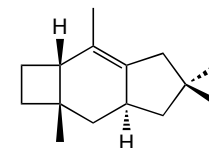


(±)-Pleurotin  
Hart, 1634-1635

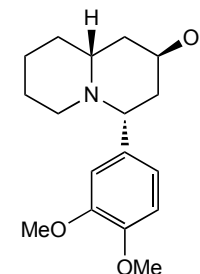


Ingenol  
Funk, 3298-3300  
Paquette, 6192-6204

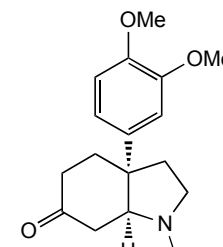
## Synthesis Covered (cont.)



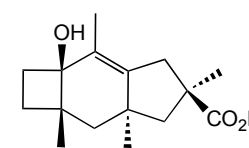
(+)-Strepurene  
Okamura, 4062-4063



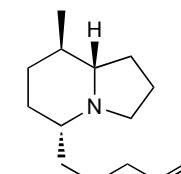
(±)-Lasubine II  
Comins, 7445-7447



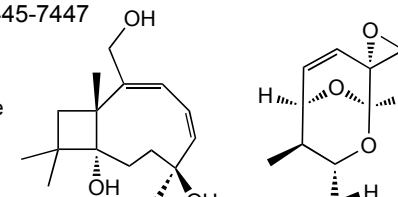
(±)-Mesembrine  
Winkler, 4831-4832



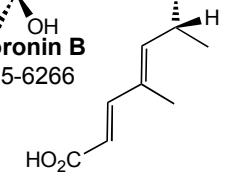
Sterpuric Acid  
Paquette, 5818-5826



(±)-Indolizidine 207A  
Holmes, 8696-8698



(±)-Punctaporonin B  
Kende, 6265-6266



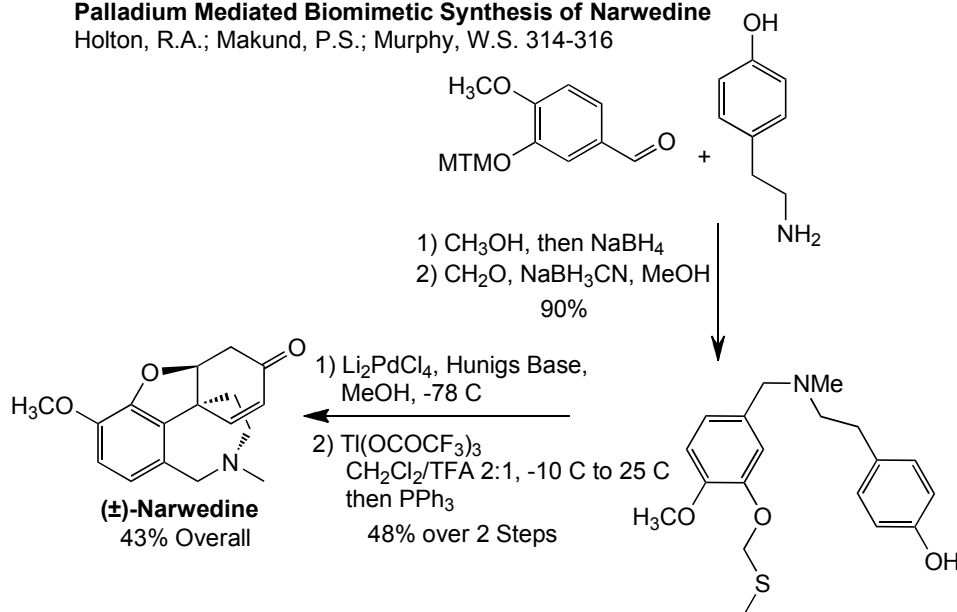
(+)-Streptolic Acid  
Ireland, 854-860

## Notable Events in 1988

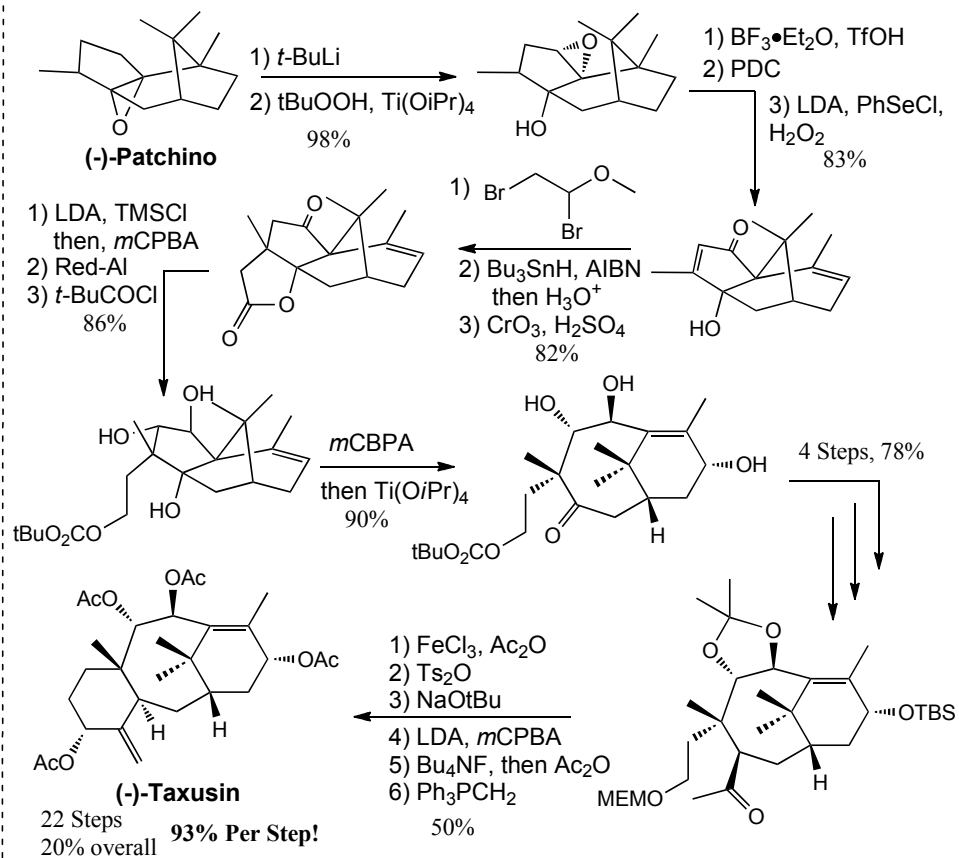
- E.J. Corey Turns 60
- Beginning of the Human Genome Project
- CDs outsell Vinyl Records for the first time in history.
- Lockerbie Bombing
- Soviet Union pulls out of Afghanistan
- George H. W. Bush elected President

**Palladium Mediated Biomimetic Synthesis of Narwedine**

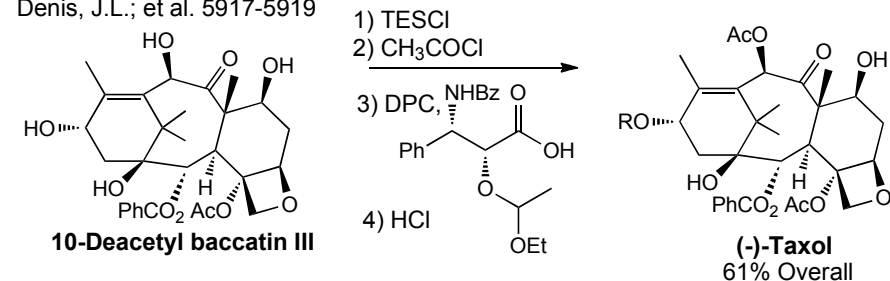
Holton, R.A.; Makund, P.S.; Murphy, W.S. 314-316

**A Synthesis of Taxusin**

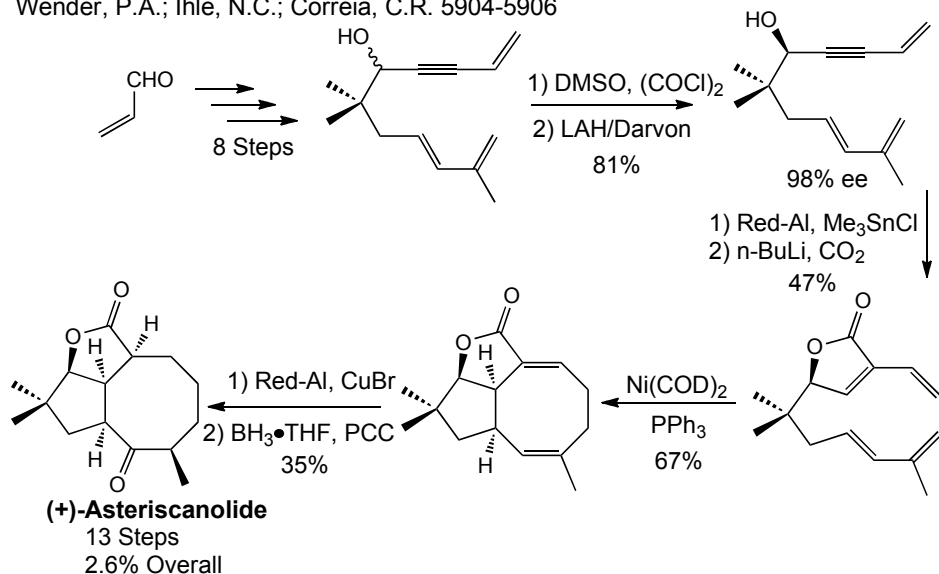
Holton, R.A.; Juo, R.R.; Kim, H.B.; Williams, A.D.; Harusawa, S.; Lowenthal, R.E.; Yogai, S. 6558-6560

**A Highly Efficient, Practical Approach to Natural Taxol**

Denis, J.L.; et al. 5917-5919

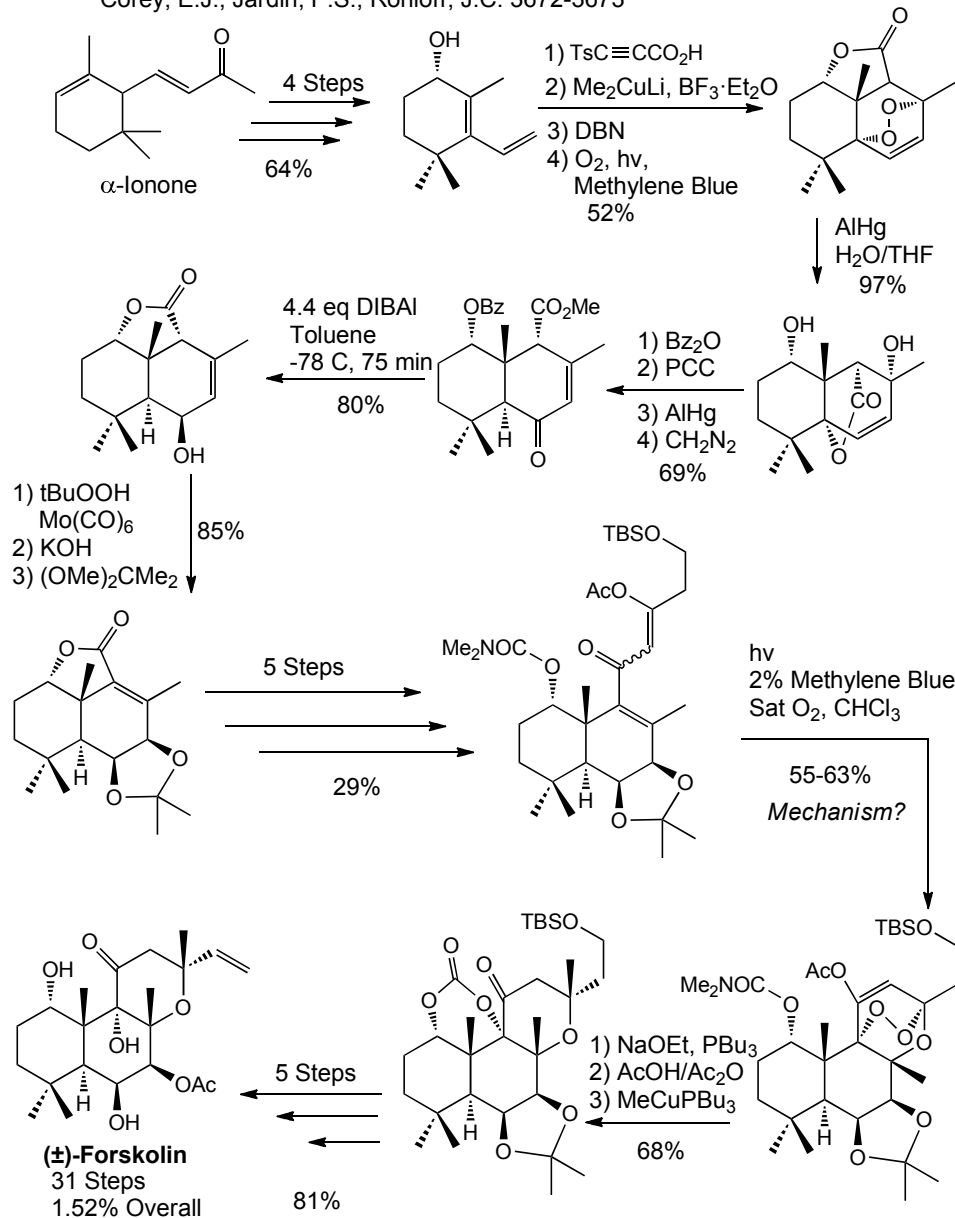
**Nickel-Catalyzed Intermolecular [4 + 4] Cycloadditions. 4. Enantioselective Total Synthesis of (+)-Astericanolide**

Wender, P.A.; Ihle, N.C.; Correia, C.R. 5904-5906



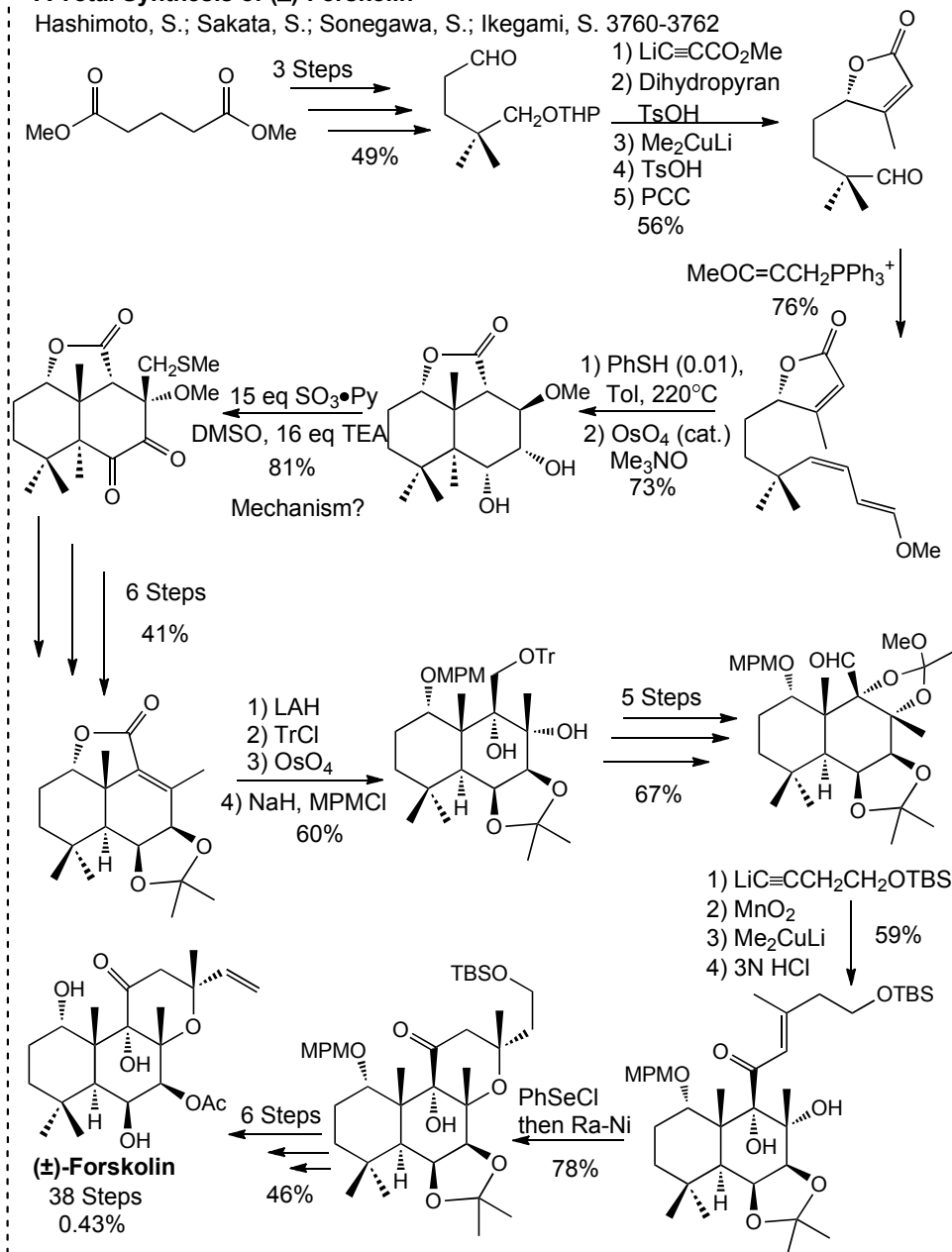
## Total Synthesis of (±)-Forskolin

Corey, E.J.; Jardin, P.S.; Rohloff, J.C. 3672-3673



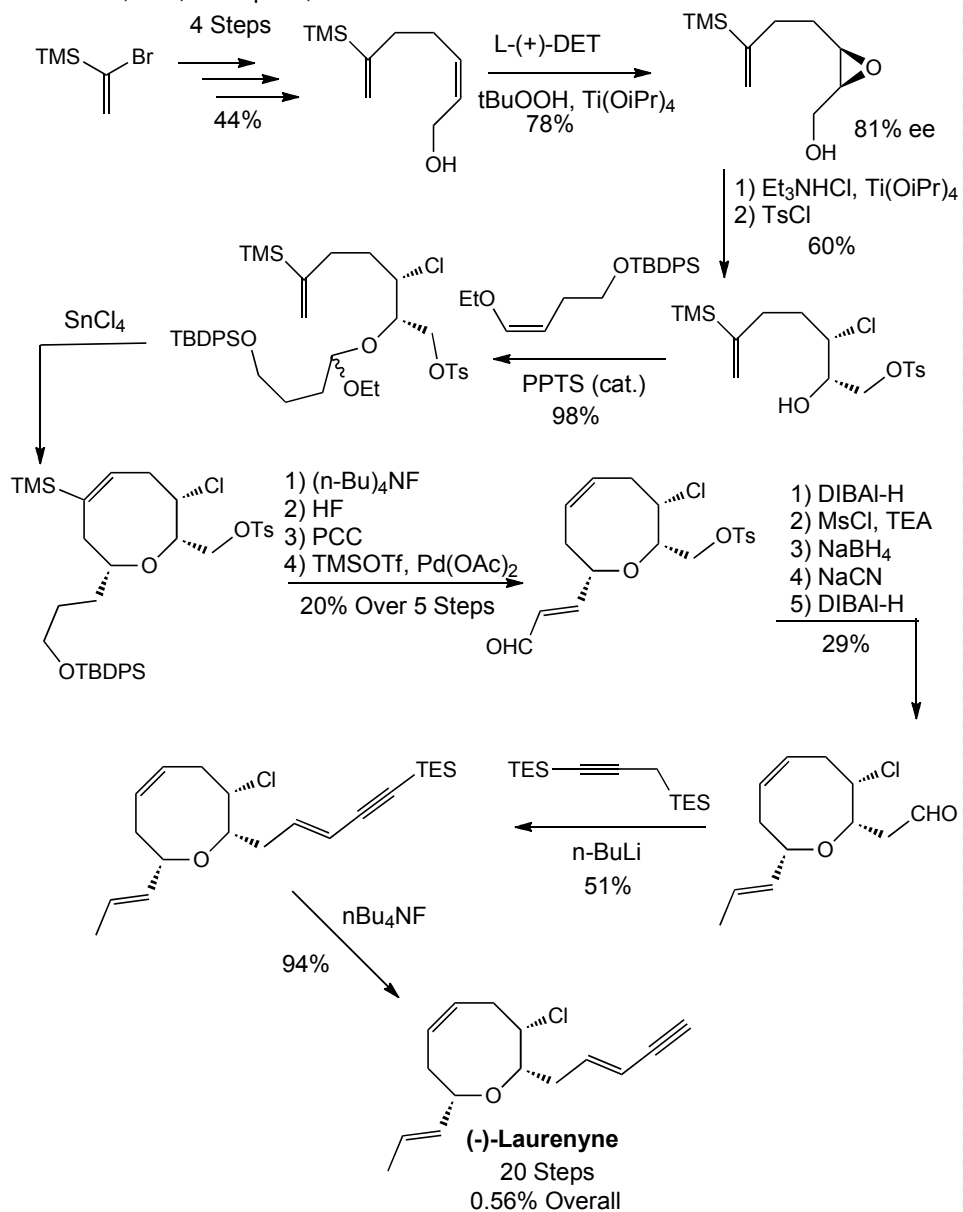
## A Total Synthesis of (±)-Forskolin

Hashimoto, S.; Sakata, S.; Sonogawa, S.; Ikegami, S. 3760-3762



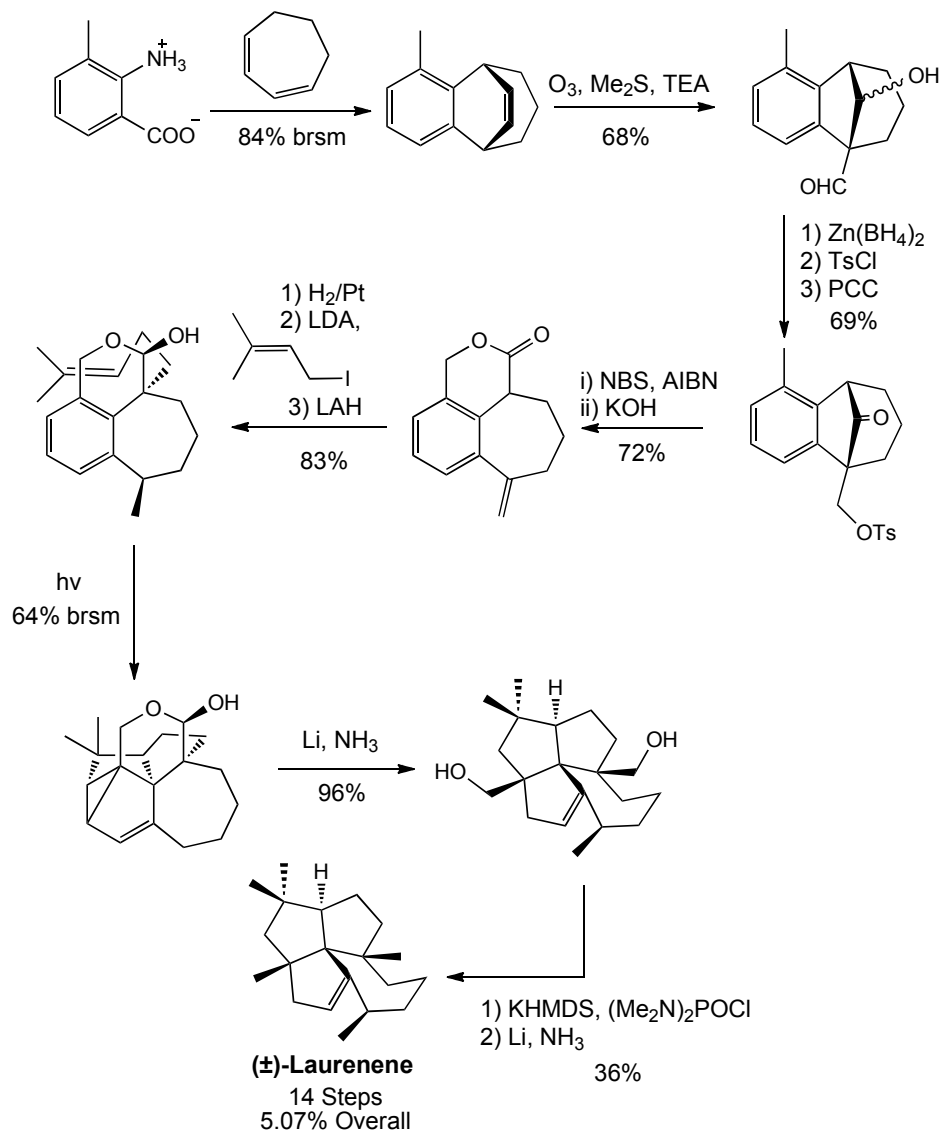
**Total Synthesis of (-)-Laurenene. Use of Acetal-Initiated Cyclizations to Prepare Functionalized Eight-Membered Cyclic Ethers**

Overman, L.E.; Thompson, A.S. 2248-2256



**Synthetic Studies on Arene-Olefin Cycloadditions. 10. A Concise, Sterocontrolled Total Synthesis of (±)-Laurenene**

Wender, P.A.; von Geldern, T.W.; Levine, B.H. 4858-4860



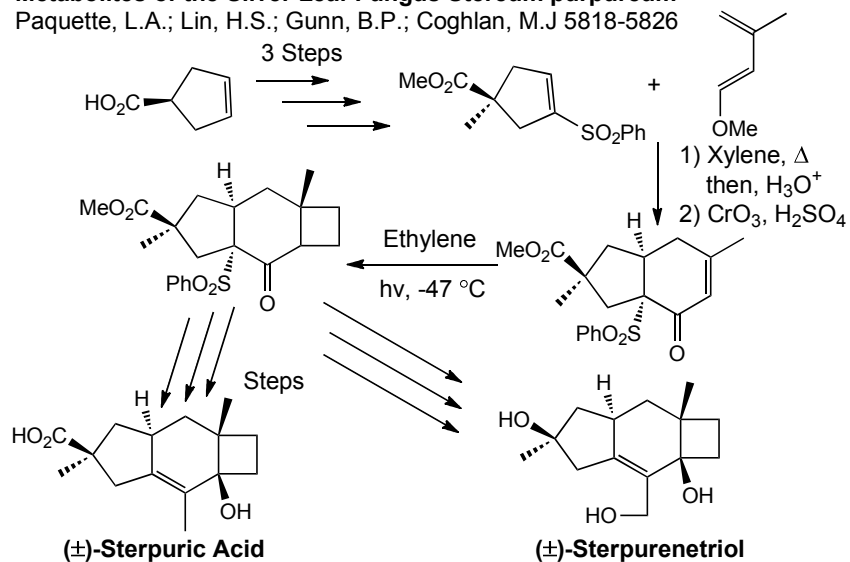
# JACS 1988: A Year in Review

Baran Group Meeting

Steven McKerrall

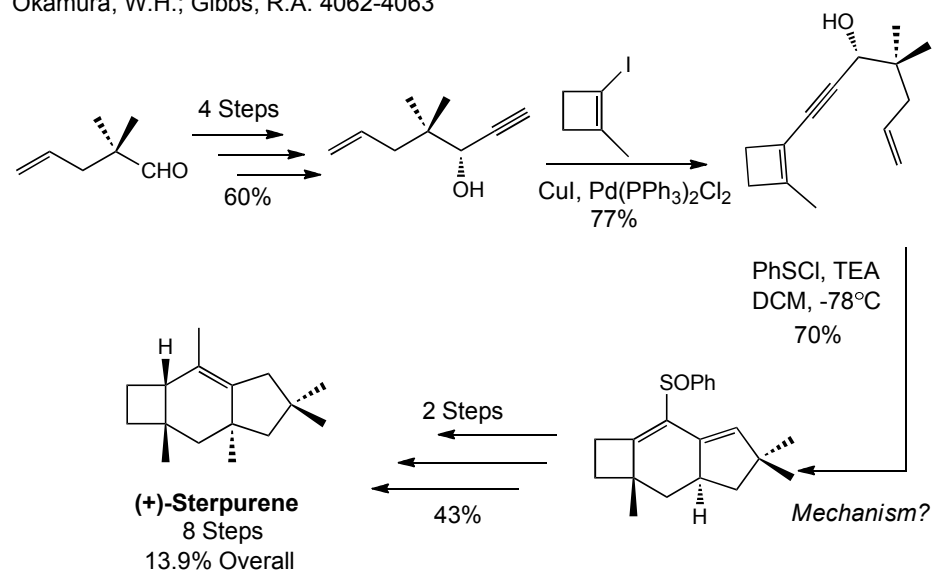
## Sequential Annulation Approach to Sterpuric Acid and Sterpurene-3,12,14-triol, Metabolites of the Silver Leaf Fungus *Stereum purpureum*

Paquette, L.A.; Lin, H.S.; Gunn, B.P.; Coghlan, M.J 5818-5826



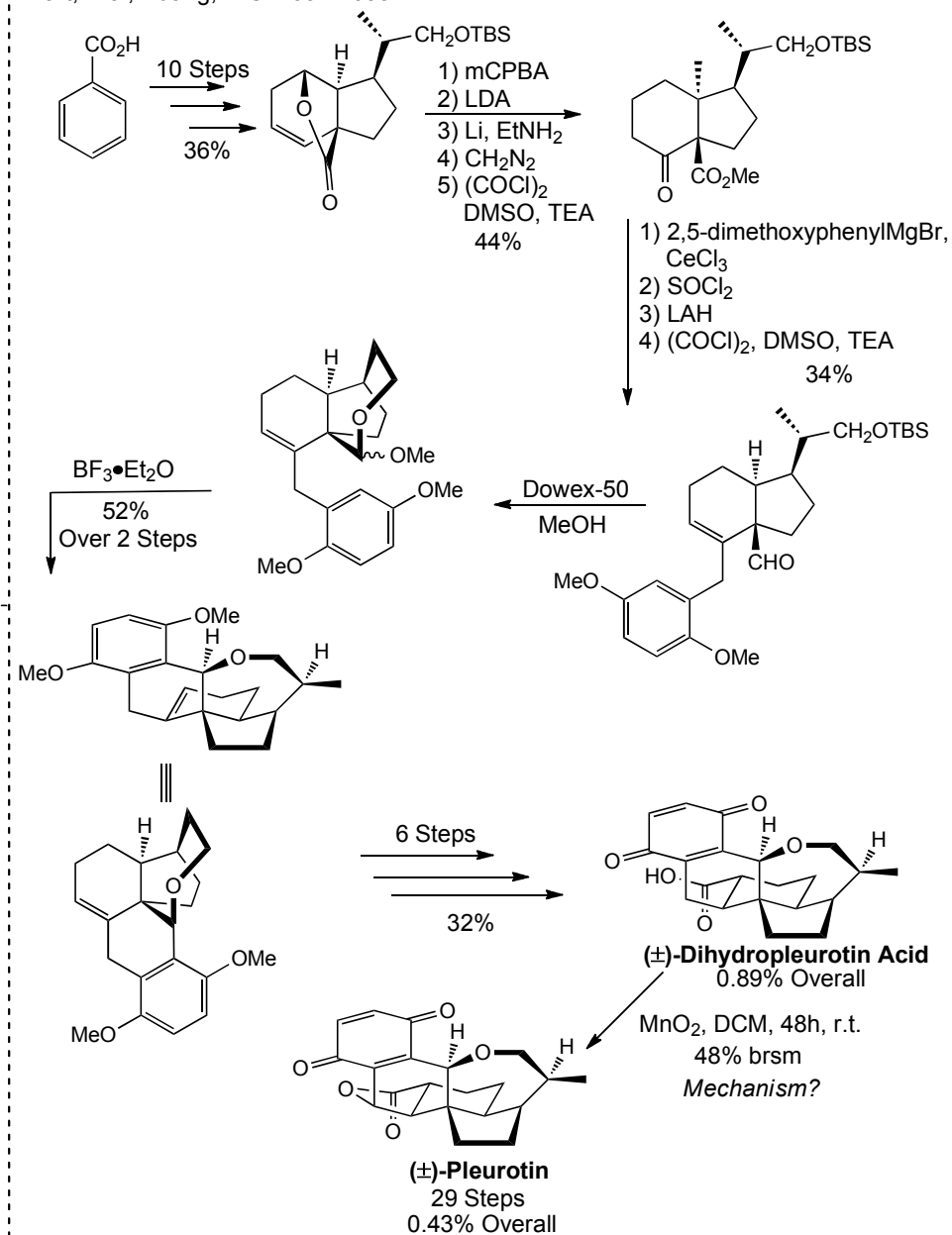
## A Short Enantioselective Synthesis of (+)-Sterpurene

Okamura, W.H.; Gibbs, R.A. 4062-4063



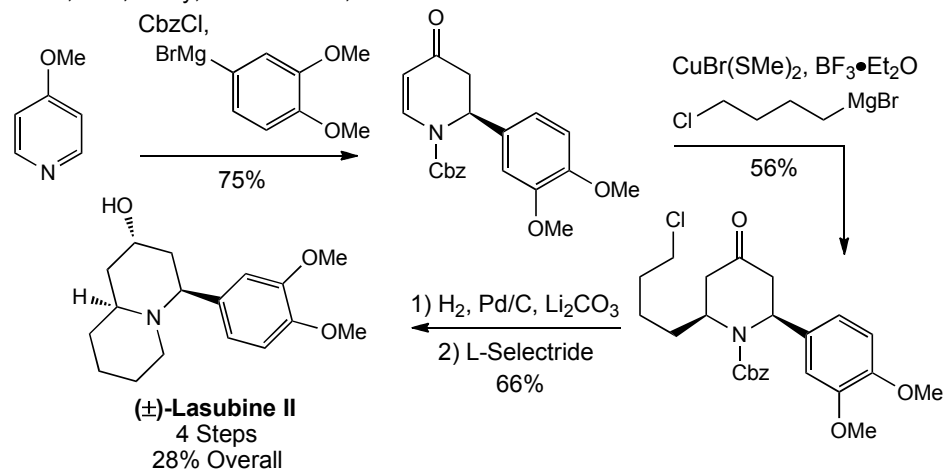
## Total Synthesis of ( $\pm$ )-Pleurotin and ( $\pm$ )-Dihydropleurotin Acid

Hart, D.J.; Huang, H.C. 1634-1635



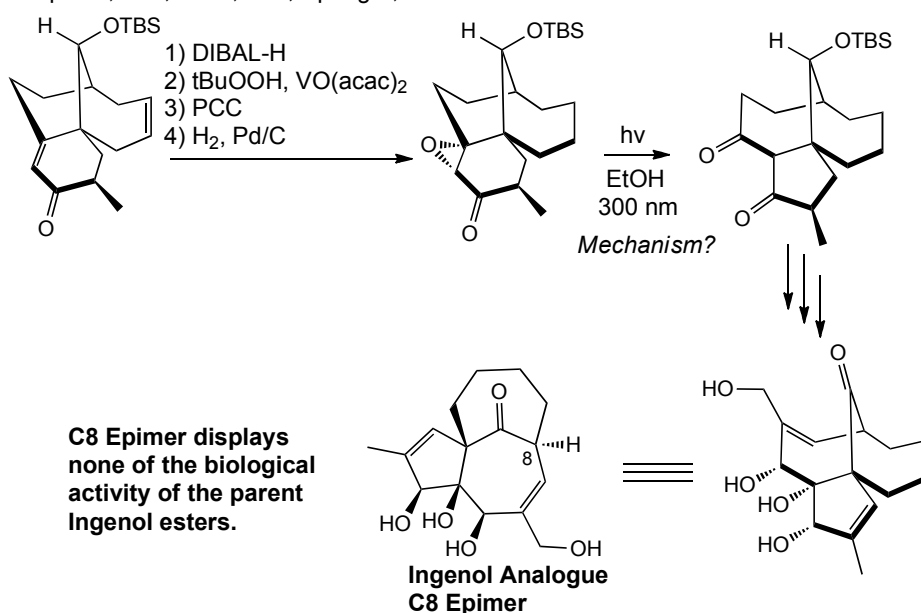
### A Highly Stereocontrolled, Four-Step Synthesis of (±)-Lasubine II

Brown, J.D.; Foley, M.A. Comins, D.L. 7445-7447



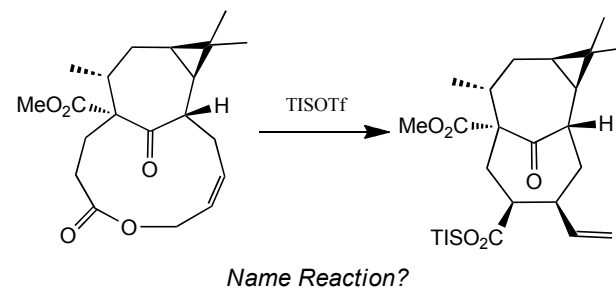
### Stereocontrolled Construction of an Ingenol Prototype having a Complete Array of Oxygenated and Unsaturated Centers.

Paquette, L.A.; Ross, R.J.; Springer, J.P. 6192-6204



### A Solution to the in,out-Bicycloundecan-7-one Problem Inherent in Ingenane Total Synthesis

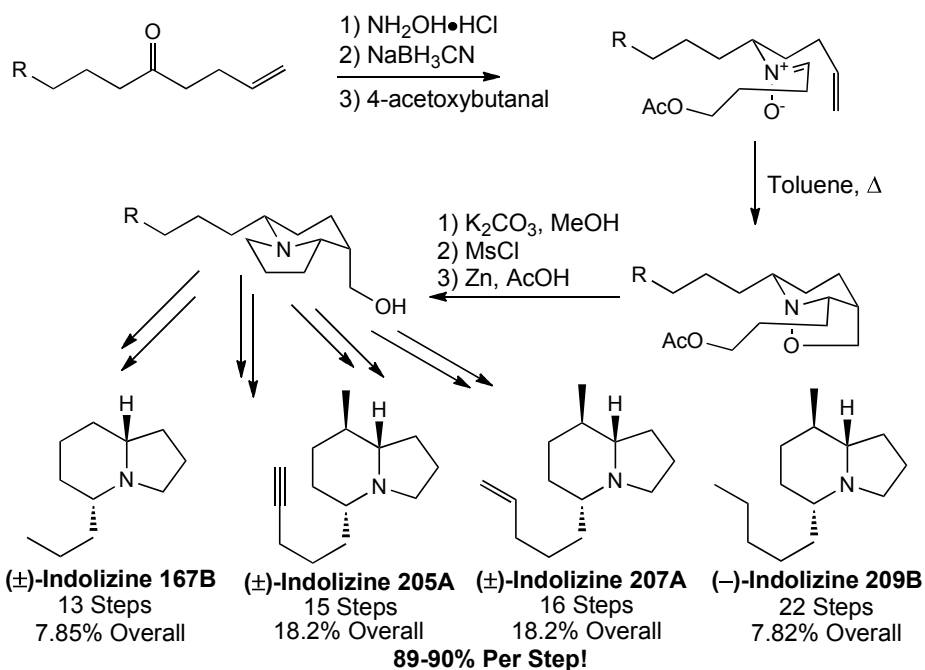
Funk, R.L.; Olmstead, T.A.; Parvez, M. 3298-3300



### Stereoselective Synthesis of (±)-Indolizidines 167B, 205A, and 207A.

### Enantioselective Synthesis of (-)-Indolizidine 209B

Smith, A.L.; Williams, S.F.; Holmes, A.B.; 8696-8698



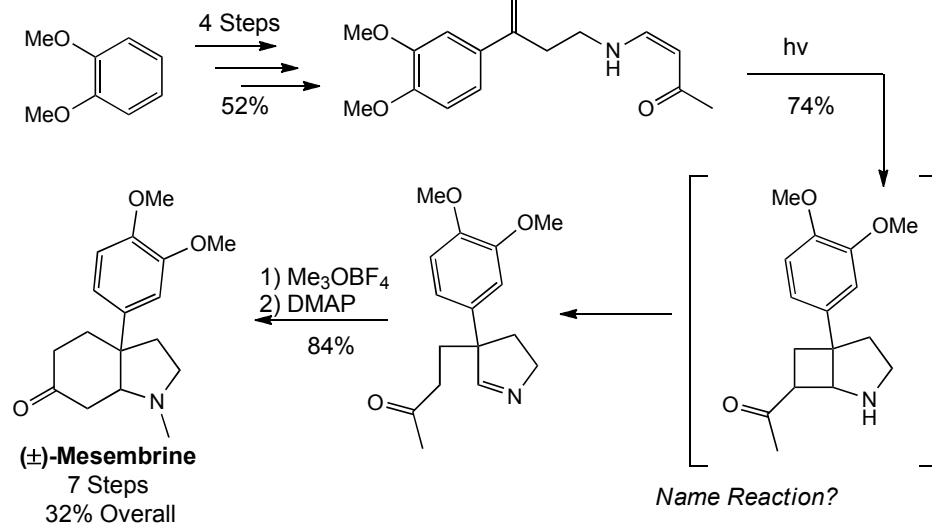
# JACS 1988: A Year in Review

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Steven McKerrall

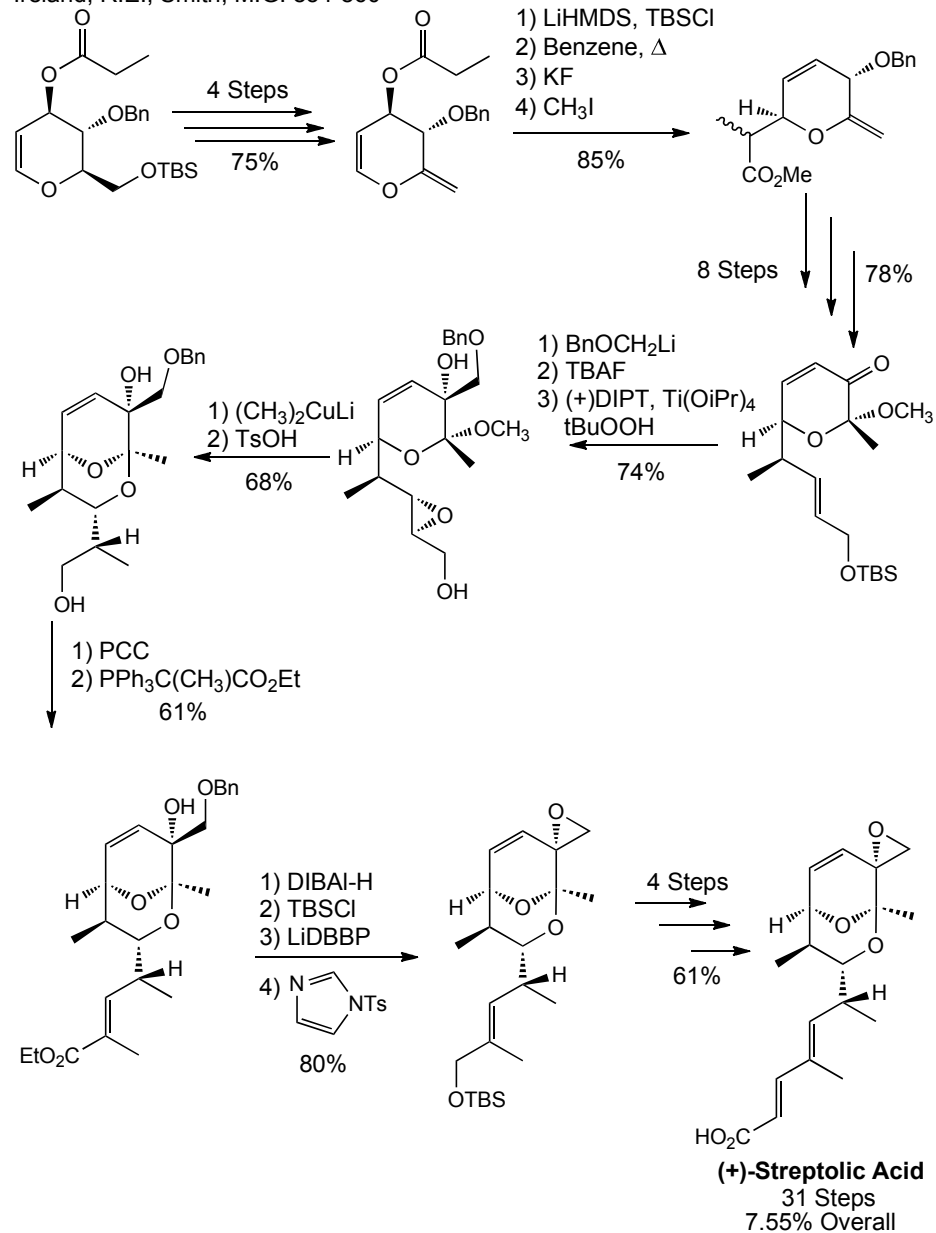
## A New Method for the Formation of Nitrogen Containing Ring Systems via the Intramolecular Photocycloaddition of Vinyllogous Amides. A Synthesis of Mesembrine

Winkler, J.D.; Muller, C.L.; Scott, R.D. 4831-4832



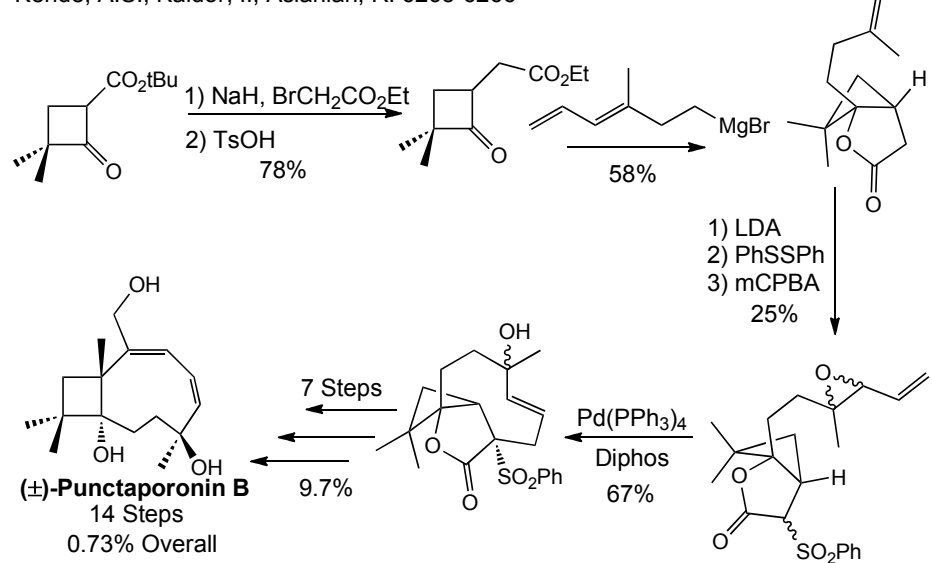
## 3-Acyltetramic Acid Antibiotics. 2. Synthesis of (+)-Streptolic Acid

Ireland, R.E.; Smith, M.G. 854-860



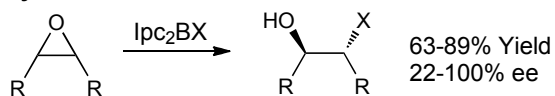
## Total Synthesis of (±)-Punctaporonin B

Kende, A.S.; Kaldor, I.; Aslanian, R. 6265-6266



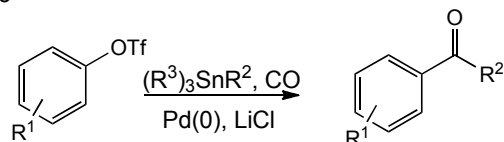
## Enantioselective Ring Cleavage of meso-Epoxydes with B-Haloisopinocampheylboranes

Brown, 6246-6248



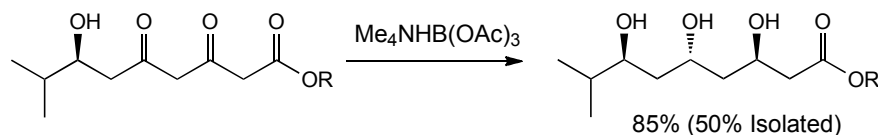
## Palladium Catalyzed Carbonylative Coupling of Aryl Triflates with Organostannes

Stille, 1557-1565



## Directed Reduction of $\beta$ -Hydroxy Ketones Employing Tetramethylammonium Triacetoxyborohydride

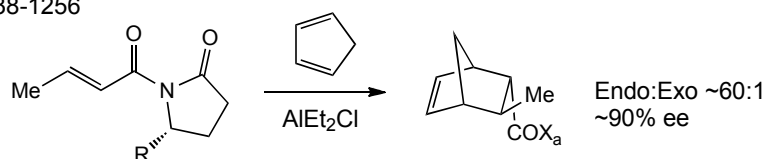
Evans, 3560-3578



*Most Cited Organic Paper of the Year: 742 Citations*

## Asymmetric Diels-Alder Cycloaddition Reactions with Chiral $\alpha,\beta$ -Unsaturated N-Acyloxazolidinones

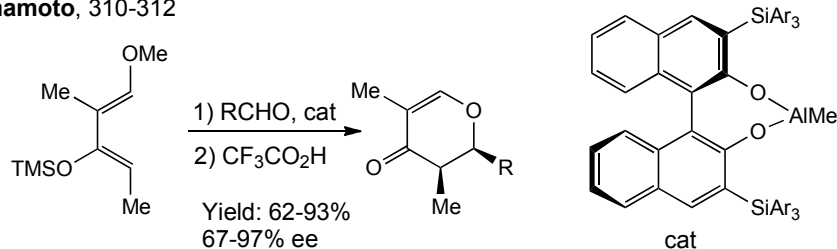
Evans, 1238-1256



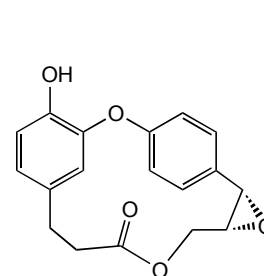
*A Close Second: 641 Citations*

## Asymmetric Hetero-Diels-Alder Reaction Catalyzed by Chiral Organoaluminum Reagent

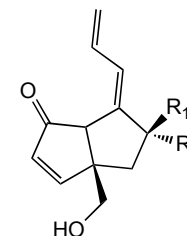
Yamamoto, 310-312



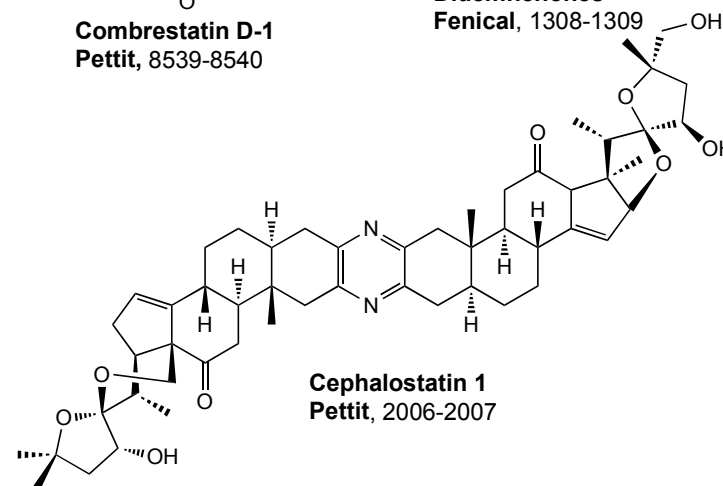
## Natural Products Isolation



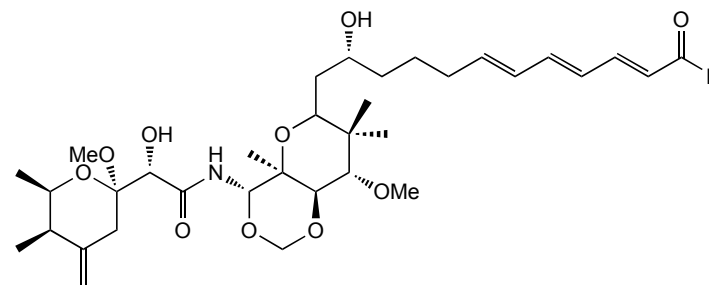
**Combrestatin D-1**  
Pettit, 8539-8540



**Didemnenones**  
Fenical, 1308-1309



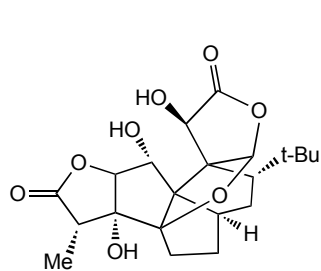
**Cephalostatin 1**  
Pettit, 2006-2007



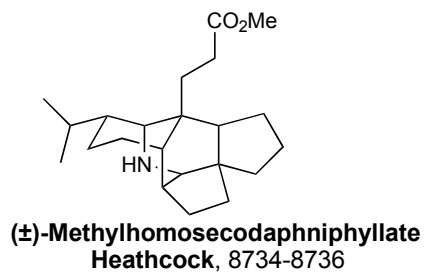
**Onnamide A**  
Higa, 4851-4853



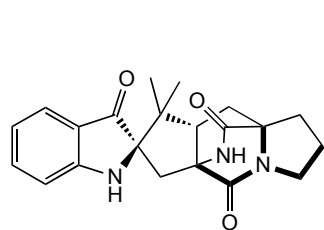
## Notable Total Syntheses Covered Elsewhere



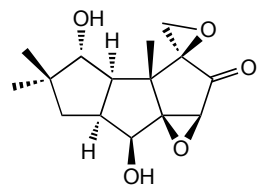
**(±)-Ginkgolide B**  
Corey, 649-651



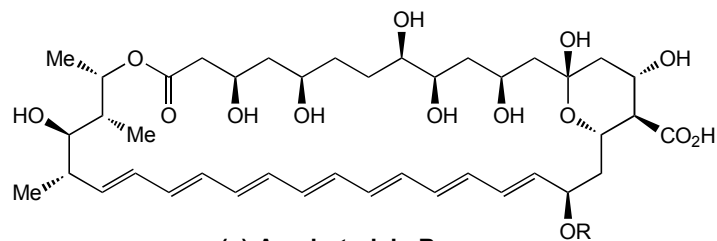
**(±)-Methylhomosecodaphniphyllate**  
Heathcock, 8734-8736



**(-)-Brevianamide B**  
Williams, 5927-5929

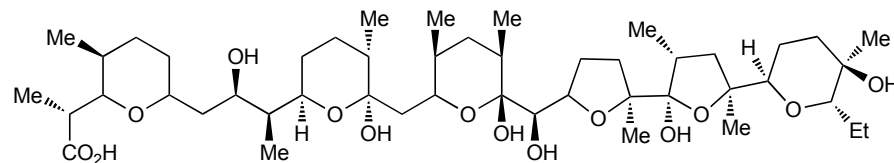


**(±)-Coriolin**  
Curran, 5064-5067

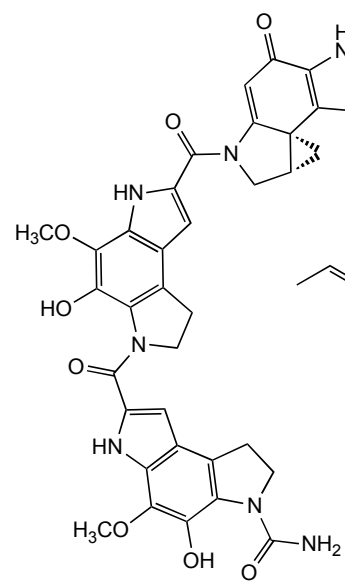


**(+)-Amphotericin B**  
Nicolaou, 4660-4705

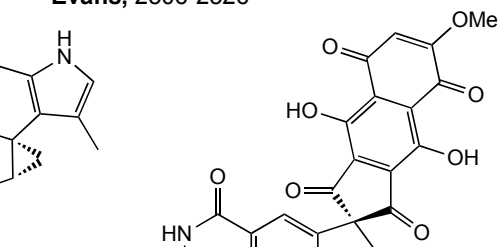
## Additional Total Syntheses Not Covered



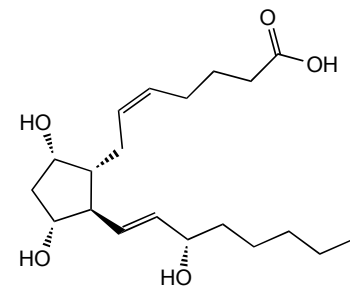
**(+)-X-206**  
Evans, 2506-2526



**(+)-CC-1065**  
Boyer, 1321-1323



**(±)-Fredericamycin A**  
Kelly, 6471-6480



**Prostaglandins E, D, F, and I**  
Noyori, 4718-4726