

Albert Padwa Ph.D.

Born on October 3, 1937 in New York City
-Brief Biography: <http://www.arkat-usa.org/get-file/18783/>

Education:

- Columbia University, B.A. 1959
- Columbia University, Ph.D. 1962
- University of Wisconsin, Postdoc 1962-1963

Academic Appointments:

- Assistant Professor of Chemistry - Ohio State University 1963-1966
- Associate Professor of Chemistry - SUNY at Buffalo, 1966-1969
- Professor of Chemistry - State University of New York at Buffalo, 1969-1979
- William P. Timmie Professor of Chemistry, Emory University, Atlanta, Ga., 1979-present

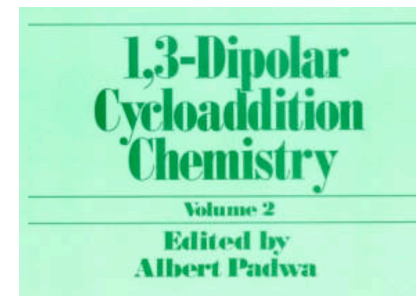
-Recipient of Many Awards (<http://euch6f.chem.emory.edu/padwa.html>)

-Mentored around 200 Graduate Students and Postdocs

-Approximately 820 publications including 130 reviews and book chapters

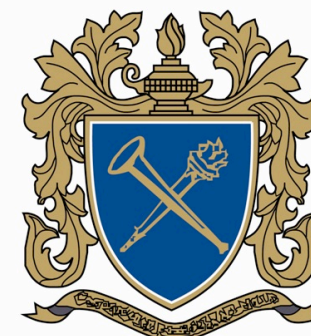
-Editorial Boards of JACS, JOC, Org. Lett. among others

-Avid Mountain Climber and Runner



Research Interests Broadly Summarized:

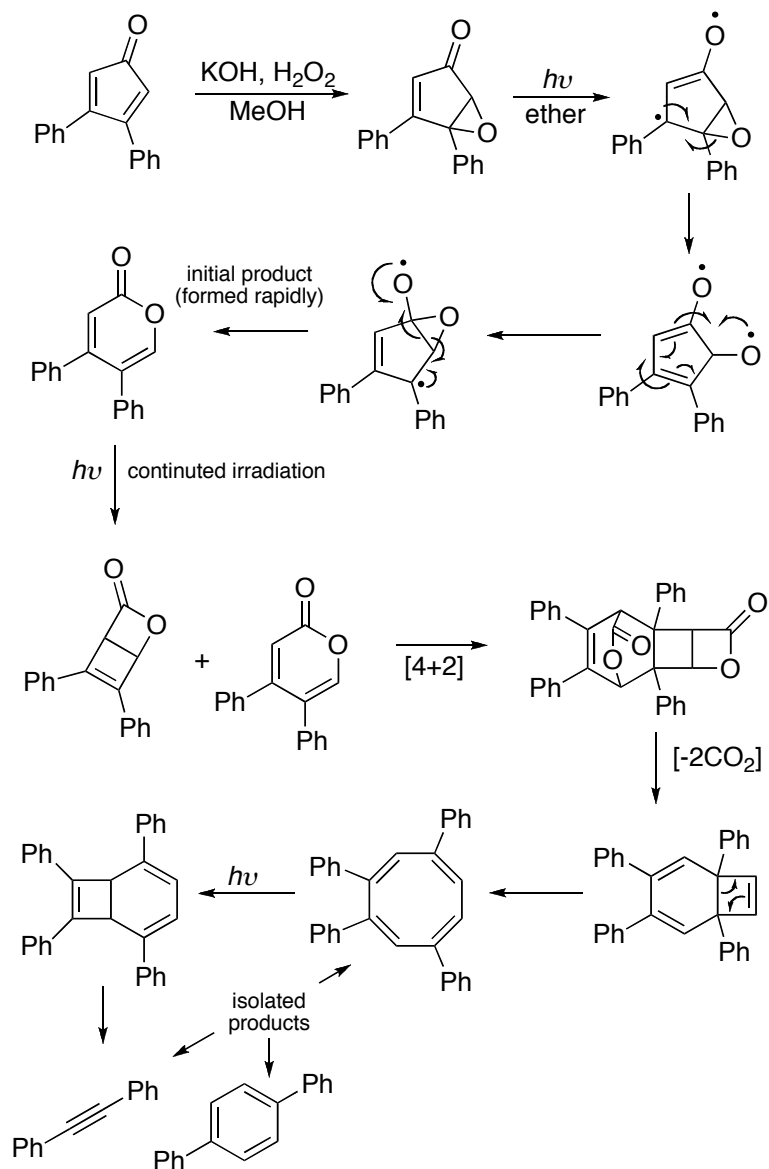
- Tandem Cascade Chemistry
- 1,3-Dipolar Cycloaddition Chemistry
- Pummerer Induced Processes
- Amino Furan Cycloadditions
- Synthetic Organic Photochemistry
- Heterocycle Synthesis
- Alkaloid Synthesis



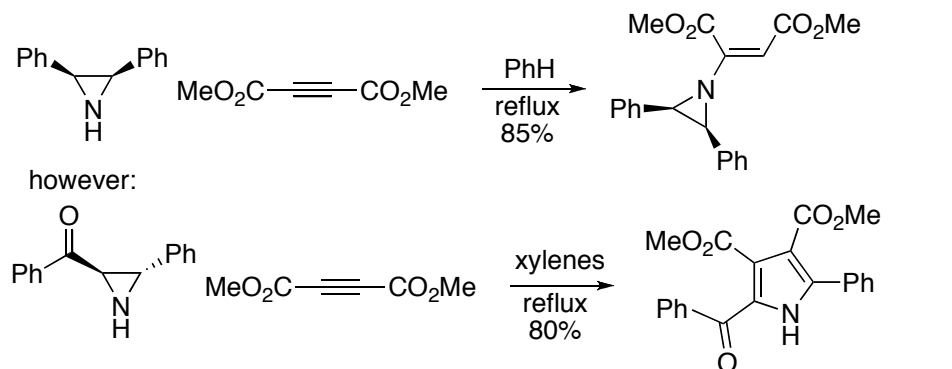
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Mechanistic Photochemistry:

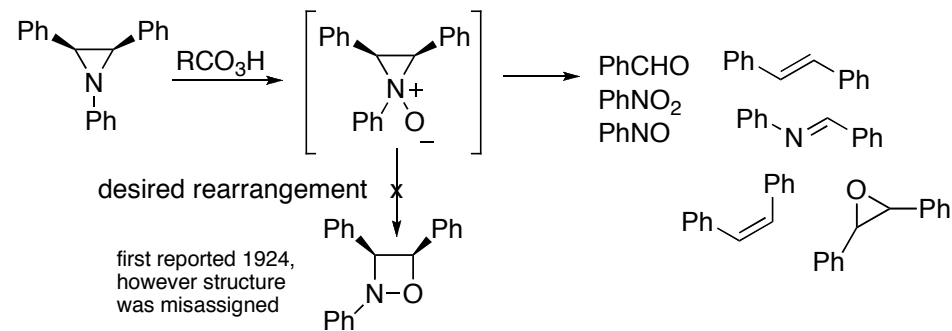
Tet. Lett. 1964, 15, 813-817.
 JACS 1964, 86, 4212-4213.

**Reactions of Aziridines with DMAD:**

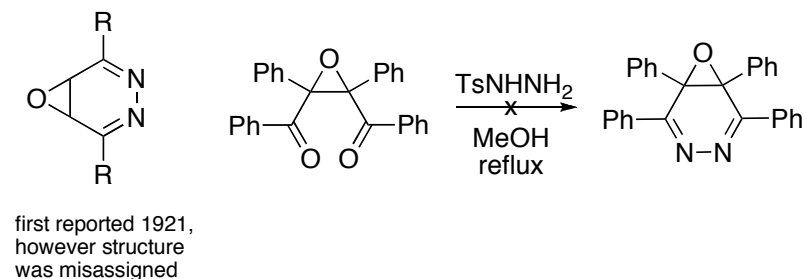
Tet. Lett. 1965 48, 4363-4367.

**Oxidation of Substituted Aziridines with Peracids:**

JOC 1966, 88, 1995-1996.

**Novel Rearrangements of *cis*-Dibenzoylstilbene Oxide with Hydrazines:**

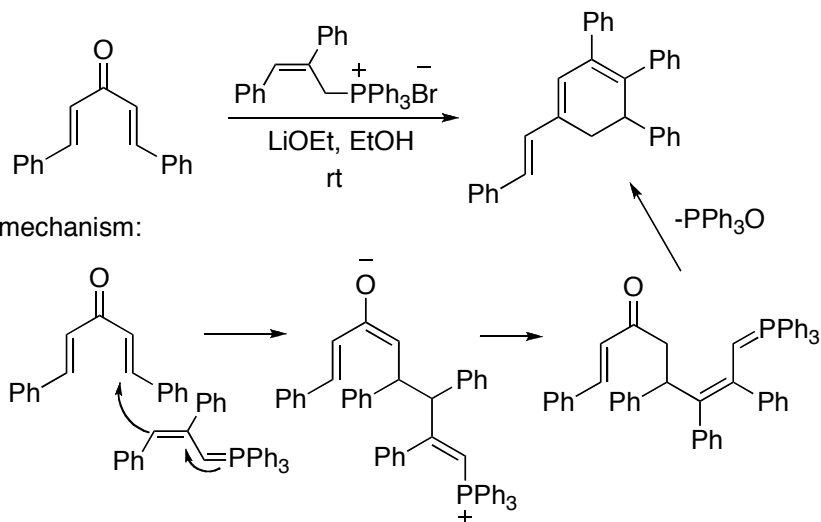
Tet. Lett. 1968, 3, 281-284.



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Utilization of the 1,4-Conjugated Wittig Reaction for the Synthesis of Substituted 1,3-cyclohexadienes:

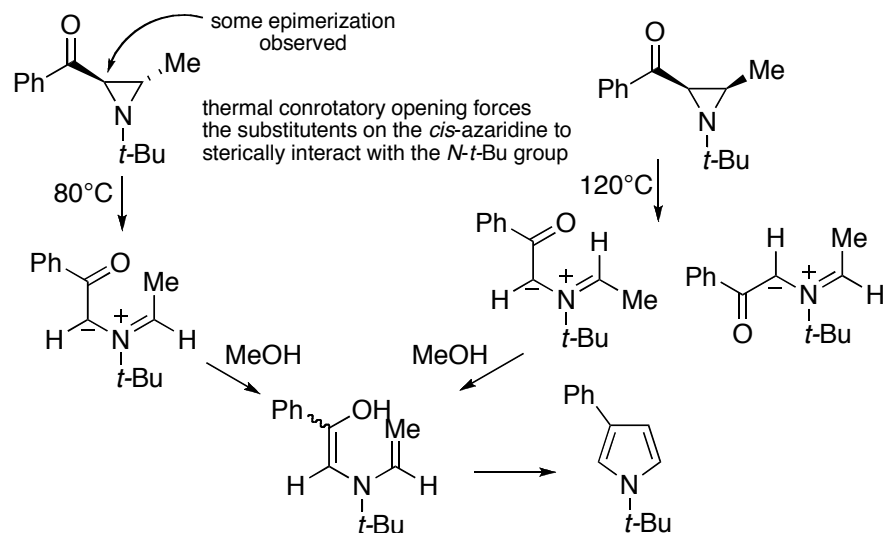
JOC 1973, 39, 1318-1320.



Rearrangement of Aziridinyl Ketones to Pyrroles:

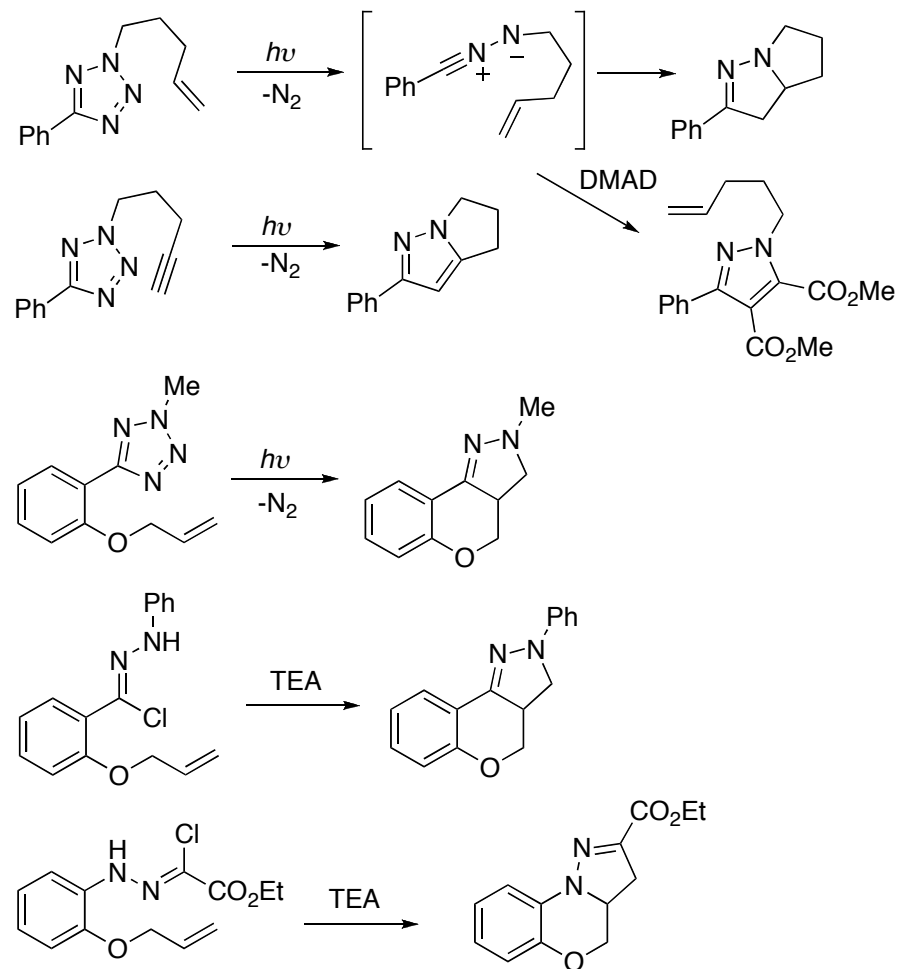
JACS 1973, 95, 7168-7169.

JACS 1975, 97, 2822-2829.



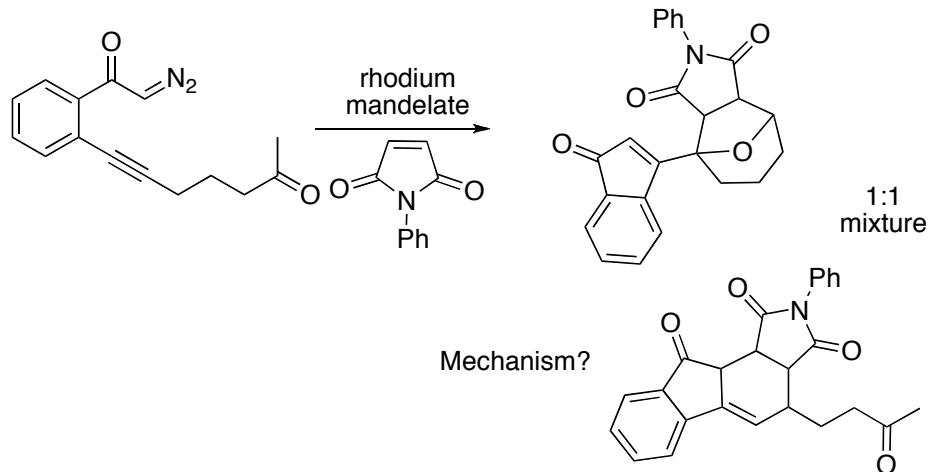
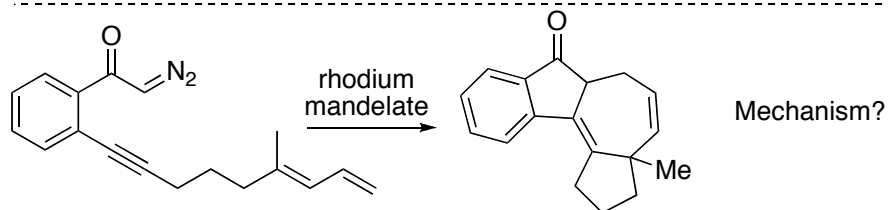
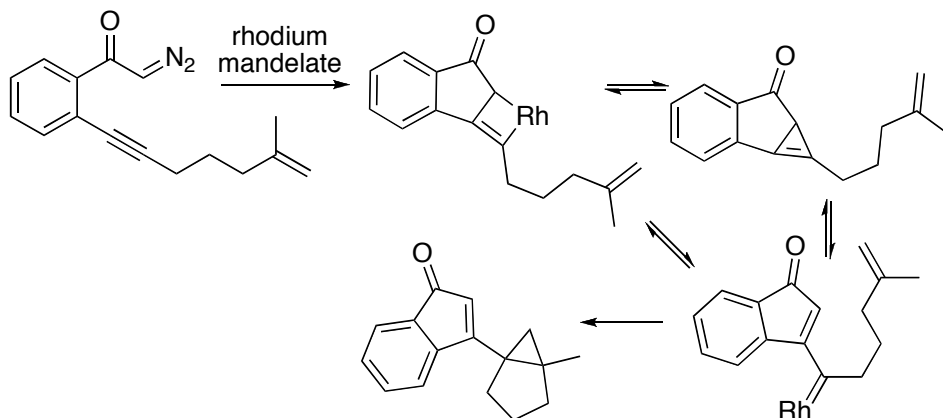
Intramolecular 1,3-Dipolar Cycloaddition Reactions of Alkenyl-Substituted Nitrile Imines:

JOC 1978, 43, 1664-1671.

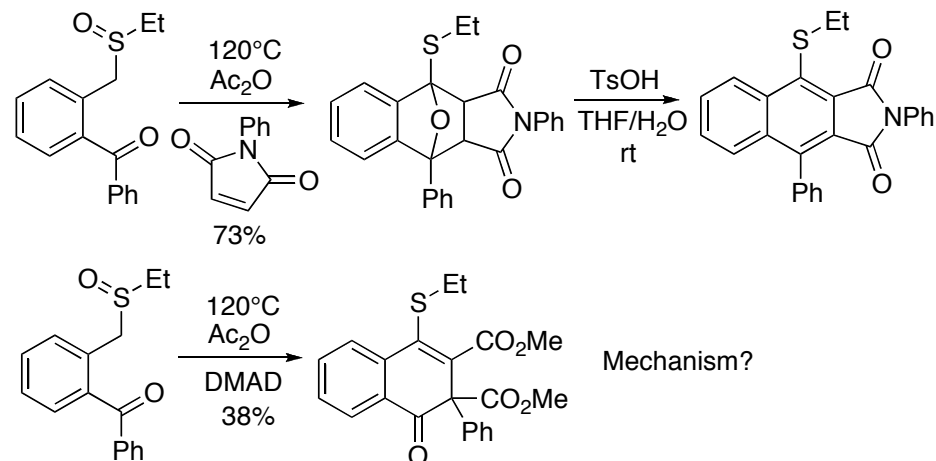


Rhodium(II)-Catalyzed Cyclization Reactions of Alkynyl-Substituted α -Diazo Ketones:

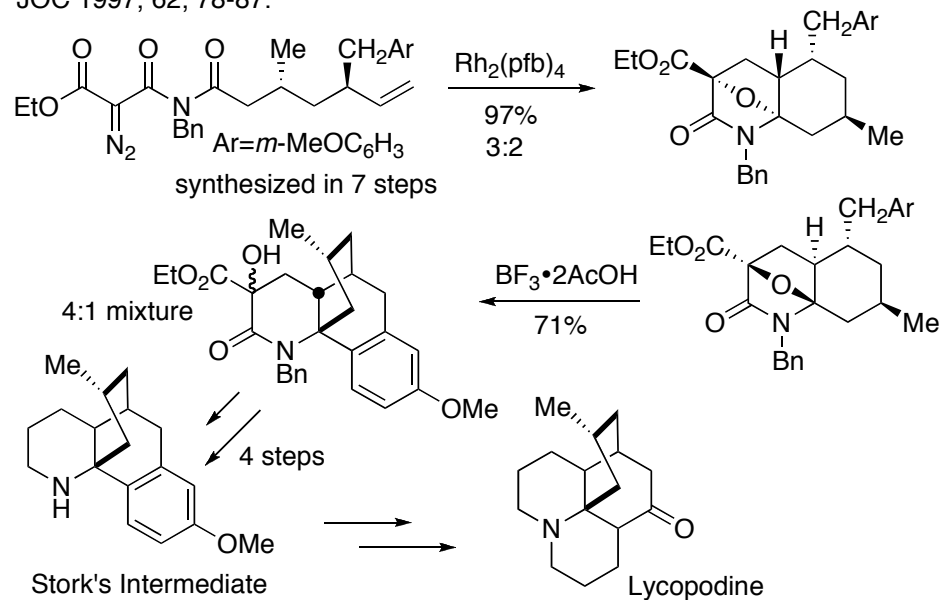
JOC 1991, 56, 2523-2530.

**Tandem Pummerer Diels-Alder Sequence for the Preparation of α -Thio Substituted Naphthalene Derivatives:**

Tet. Lett. 1995, 36, 3495-3498.

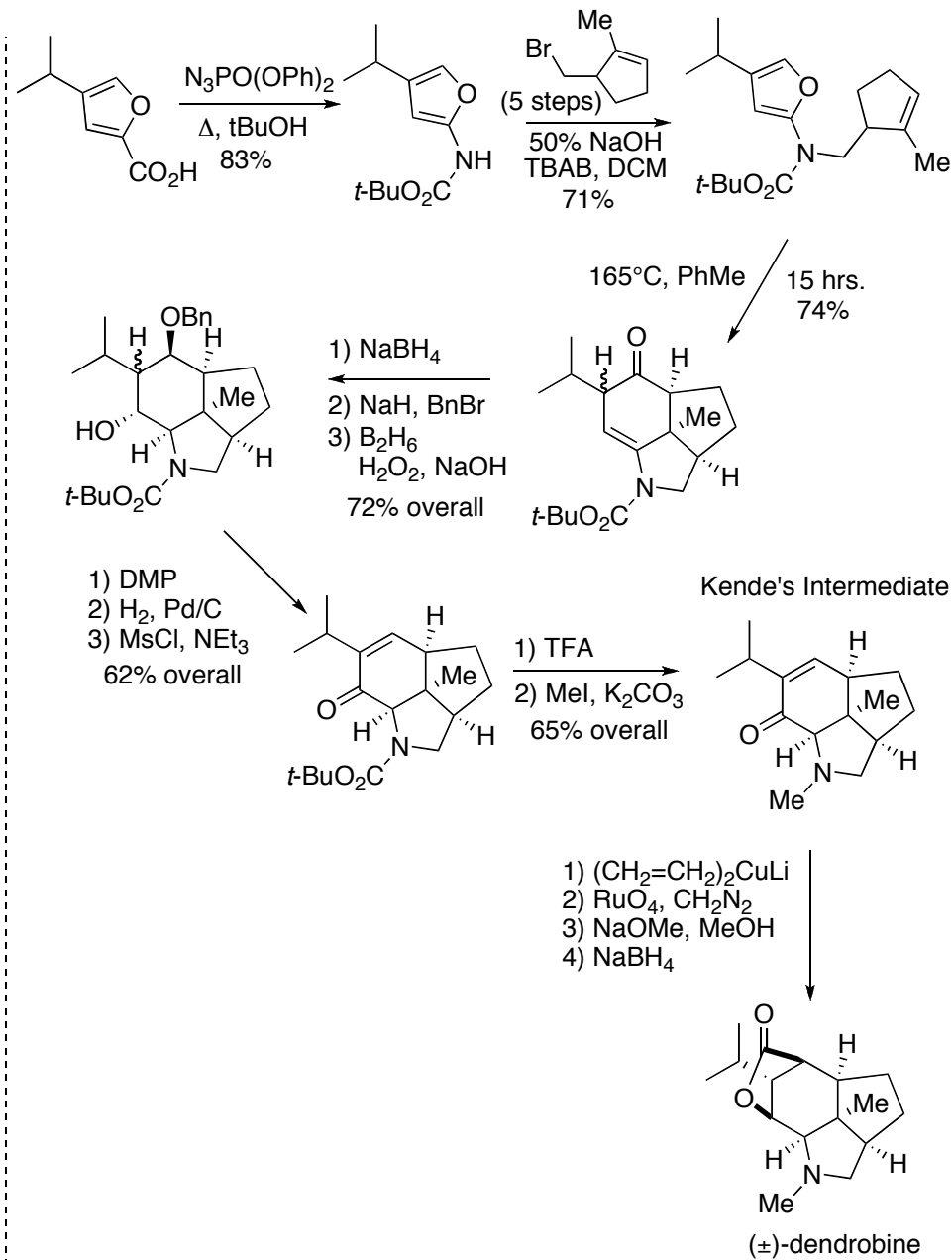
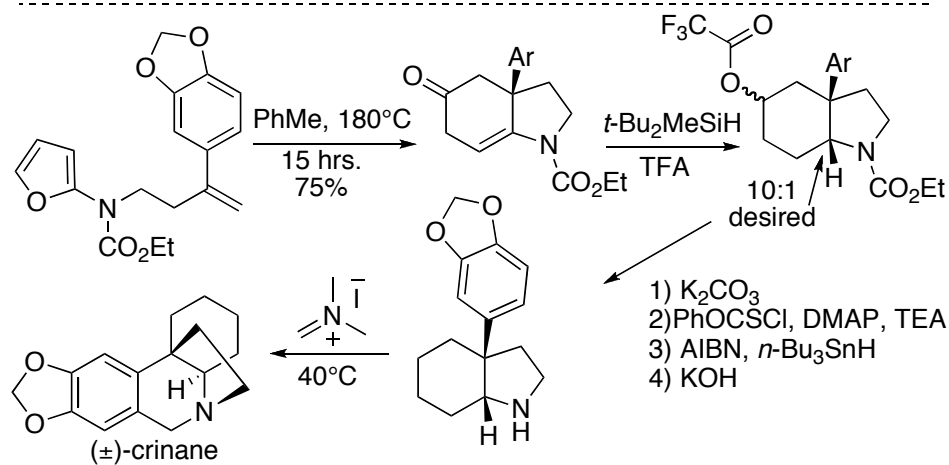
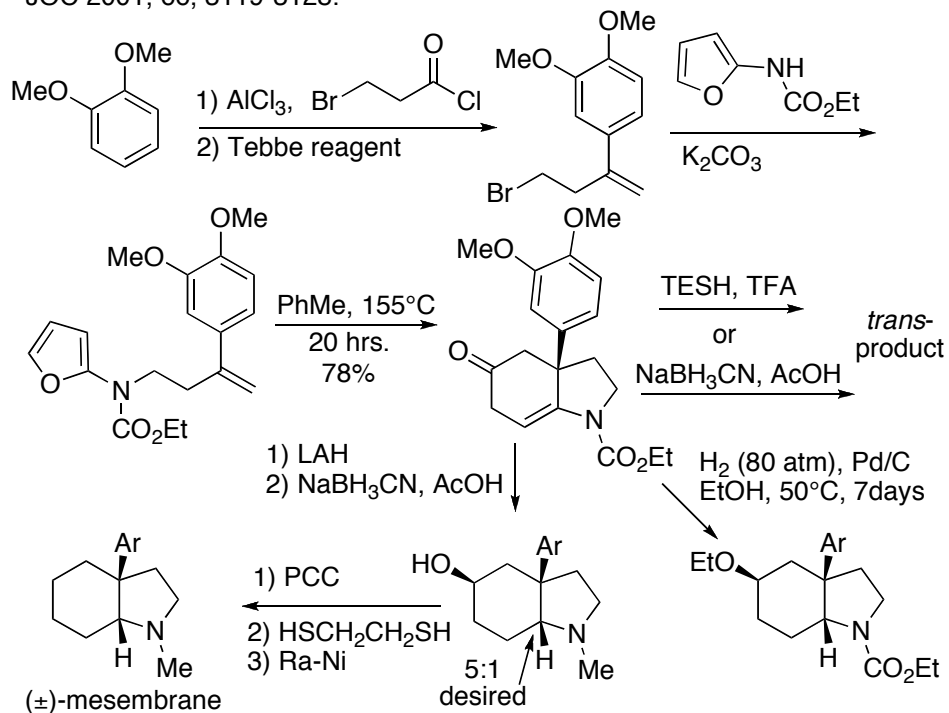
**Utilization of the Intramolecular Cycloaddition-Cation π -Cyclization of an Isomüchnone Derivative for the Synthesis of Lycopodine:**

JOC 1997, 62, 78-87.



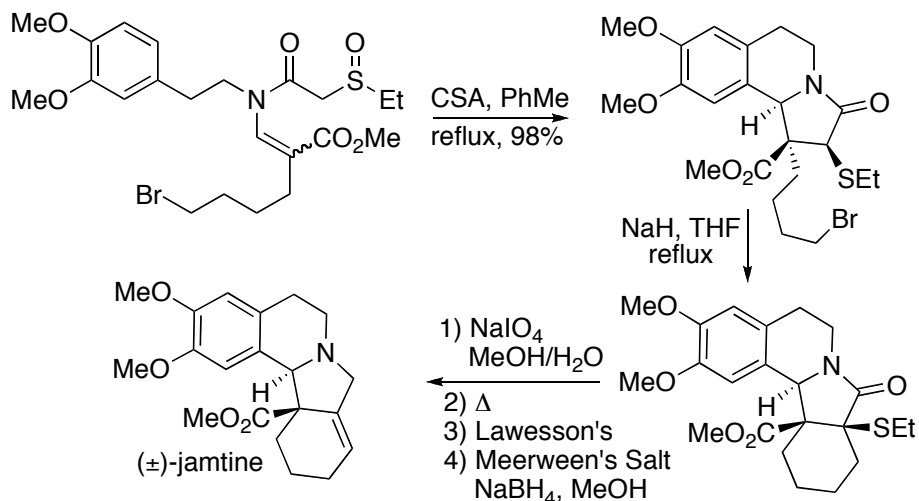
Application of Furanyl Carbamate Cycloadditions Toward the Synthesis of Hexahydroindoline Alkaloids:

JOC 2001, 66, 3119-3128.

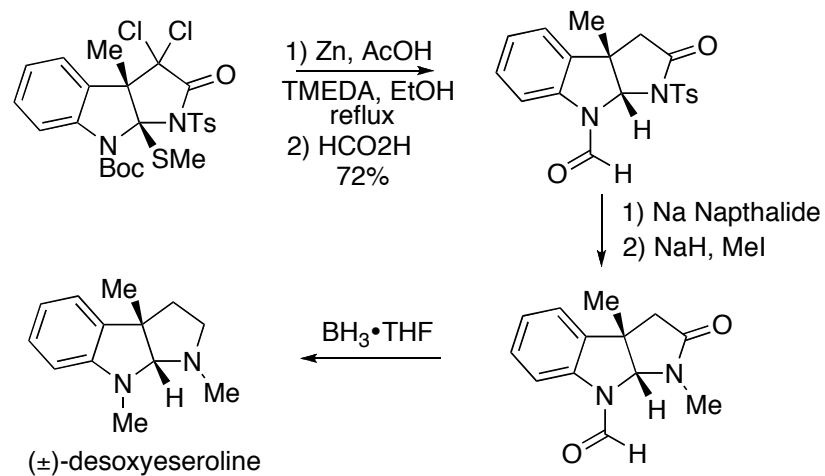
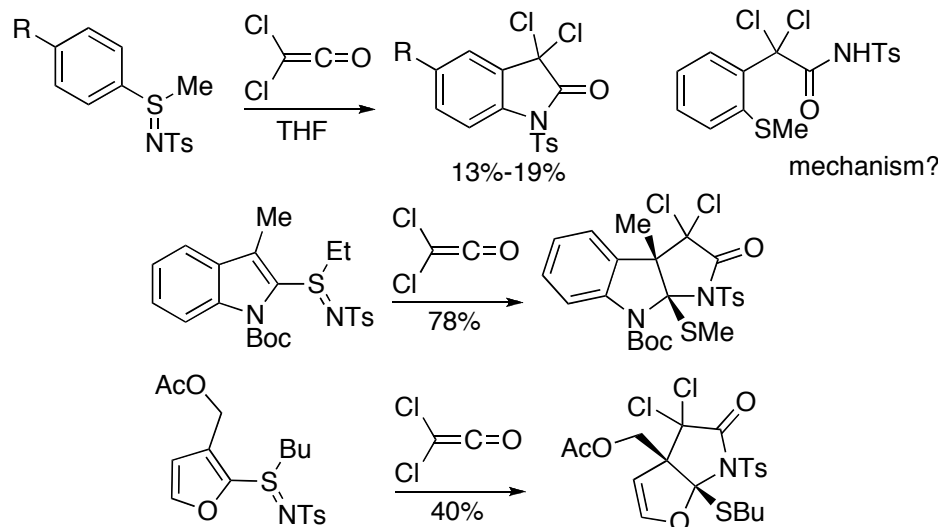


Total Synthesis of (±)-Jamtine Using a Thionium/N-Acyliminium Ion Cascade:

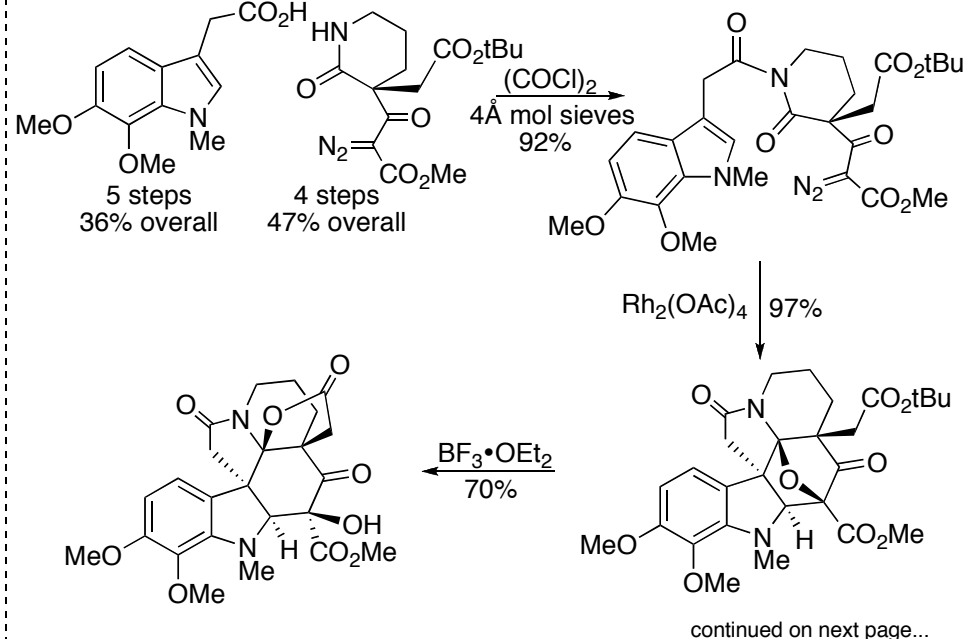
Org. Lett. 2002, 4, 715-717.

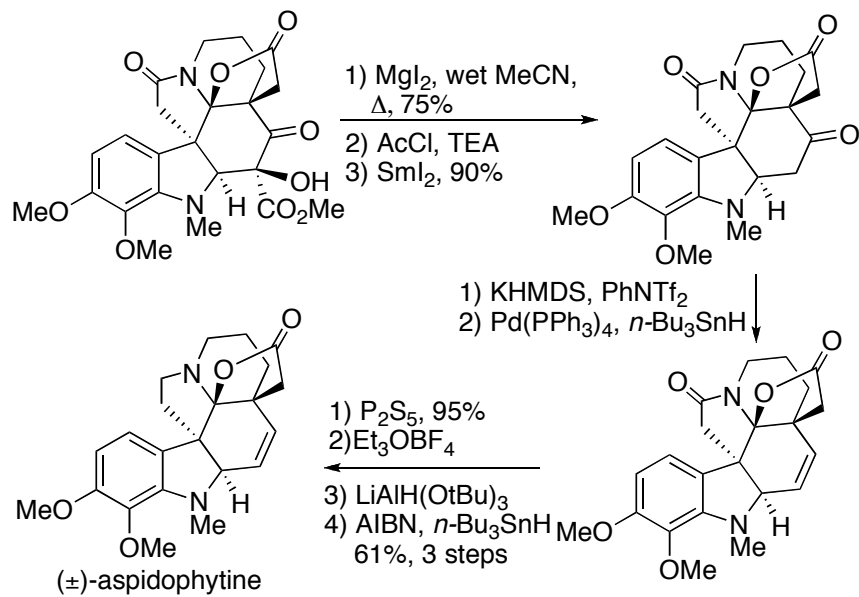

Dichloroketene-Induced Cyclizations of Vinyl Sulfinimines:
Applications of the Method in the Synthesis of (±)-Desoxyseroline:

JOC 2005, 70, 8538-8549.

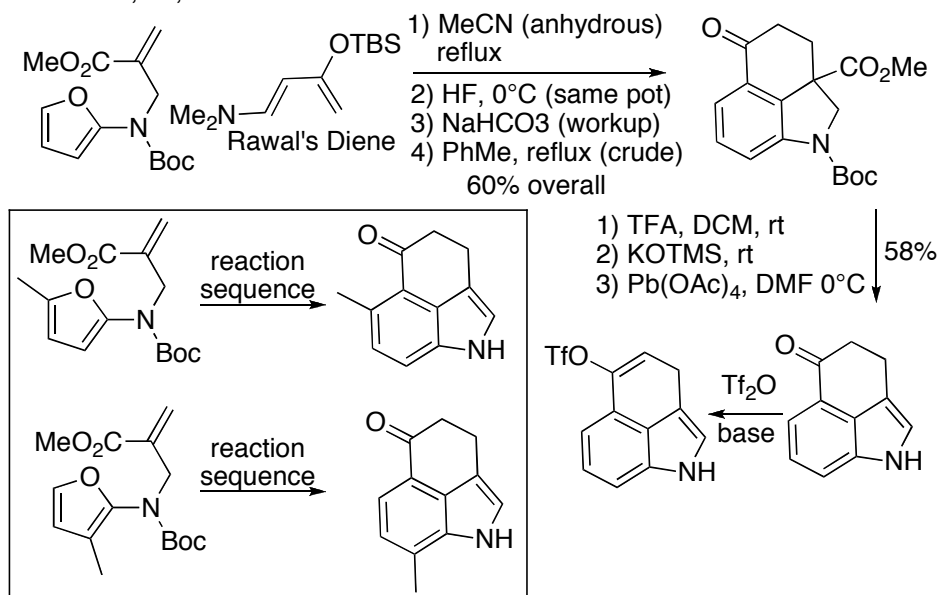

Application of the Rh(II) Cyclization/Cycloaddition Cascade for the Total Synthesis of (±)-Aspidophytine:

Org. Lett. 2006, 8, 3275-3278.

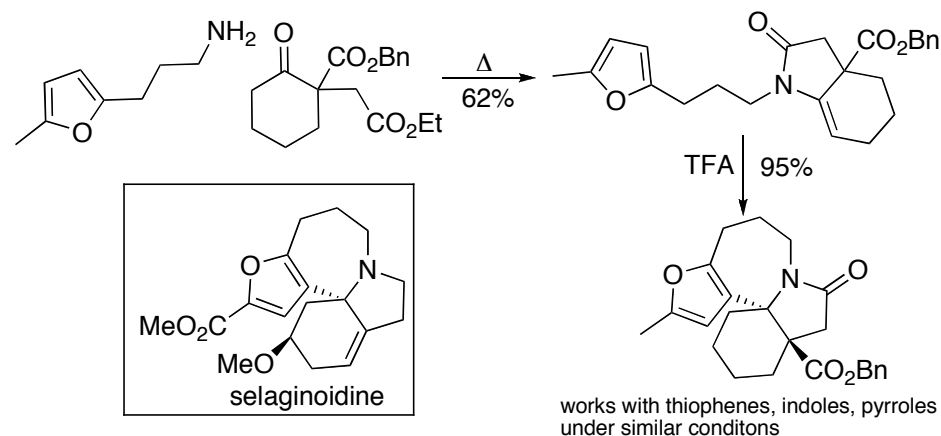




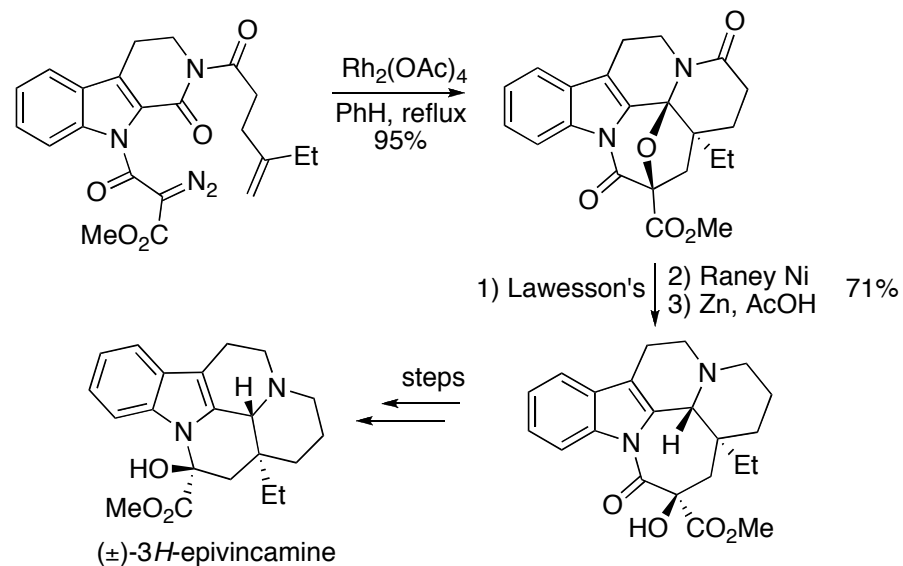
Sequential Aminodiene Diels-Alder Approach to the Ergoline Skeleton:
 JOC 2005, 70, 6833-6841.



Acid Promoted Cyclization Reactions of Tetrahydroindolinones. Model Studies for Possible Application in a Synthesis of Selaginoidine:
 JOC 2007, 72, 538-549.

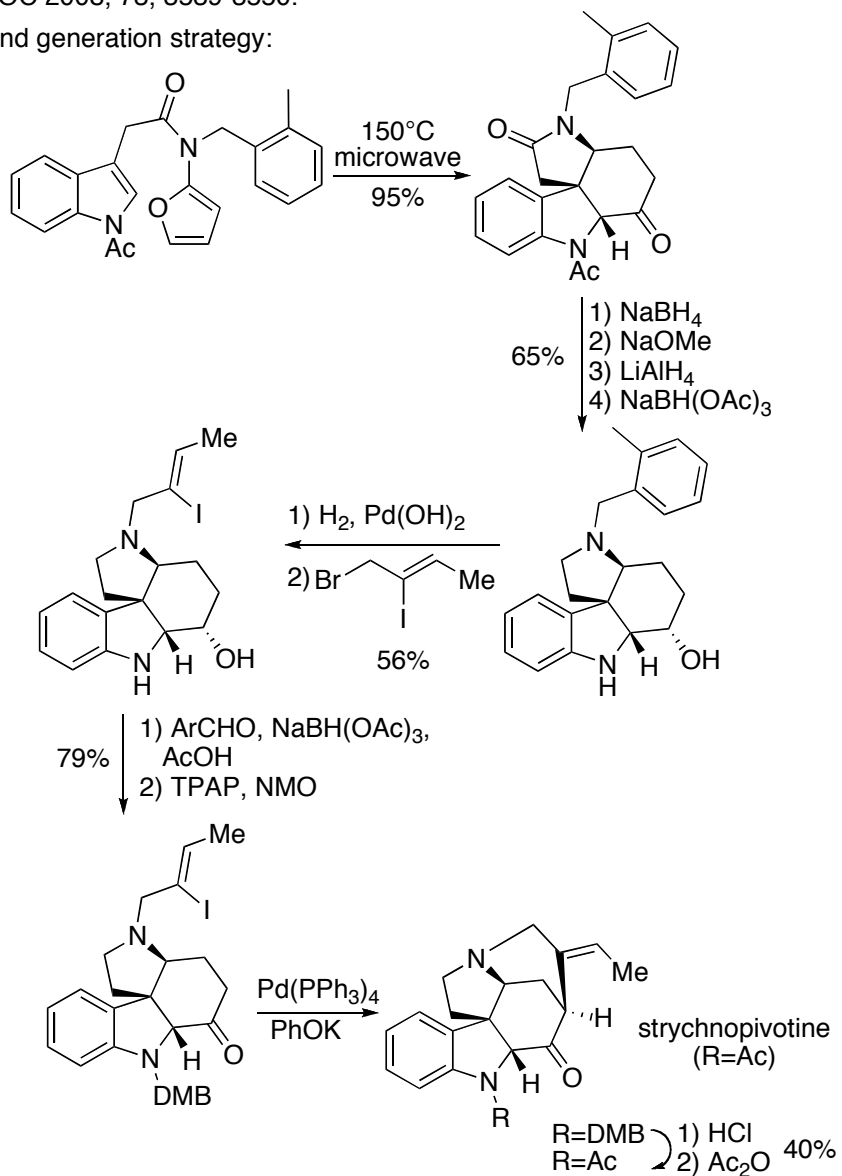


General Access to the Vinca and Tacaman Alkaloids Using a Rh(II)-Catalyzed Cyclization/Cycloaddition Cascade:
 JOC 2008, 73, 2792-2802.



A General Synthetic Entry to the Pentacyclic Strychnos Alkaloid Family, Using a [4+2]-Cycloaddition/Rearrangement Cascade Sequence:
JOC 2008, 73, 3539-3550.

2nd generation strategy:



A Stereoselective Approach to the Azaspiro[5.5]undecane Ring System Using a Conjugate Addition/Dipolar Cycloaddition Cascade:
JOC 2008, 73, 9601-9609.

