

Statistics:

Volume 61
9636 pages
2726 papers

**Publication Count:**

Katritzky, A. R. (21)
Paquette, L. A. (17)
Marshall, J. A. (15)
Armstrong, R. W. (15)
Crich, D./Padwa, A. (12)

Nobel Prize:

The Nobel Prize in Chemistry 1996 was awarded jointly to Robert F. Curl Jr., Sir Harold W. Kroto and Richard E. Smalley for their discovery of fullerenes.

Notable Events:

The first version of the Java programming language is released.
Dolly the sheep is the first mammal to be cloned.
MSNBC is launched.
Spice Girls's has their first number 1 hit record "Wannabe"
Tiger Woods wins his first PGA tour (out of 79)

Top Movies:

Independence Day
101 Dalmatians
The Nutty Professor
Mission: Impossible

Top Songs:

Un-Break My Heart by Toni Braxton
Pony by Ginuwine
California Love by Tupac
No Diggity by Blackstreet

**Top 5 Most Cited Papers:**

Reductive Amination of Aldehydes and Ketones with Sodium Triacetoxyborohydride. Studies on Direct and Indirect Reductive Amination Procedures

Abdel-Magid, Ahmed F., Carson, Kenneth G., Harris, Bruce D., Maryanoff, Cynthia A., Shah, Rekha D.
J. Org. Chem. 1996, 61, 3849-3862.

1101 citations

Scandium Trifluoromethanesulfonate as an Extremely Active Lewis Acid Catalyst in Acylation of Alcohols with Acid Anhydrides and Mixed Anhydrides

Ishihara, Kazuaki; Kubota, Manabu; Kurihara, Hideki; Yamamoto, Hisashi
J. Org. Chem. 1996, 61, 4560-4567.

408 citations

The Synthesis of Aminopyridines: A Method Employing Palladium-Catalyzed Carbon-Nitrogen Bond Formation

Wagaw, Seble; Buchwald, Stephen L.
J. Org. Chem. 1996, 61, 7240-7241.

334 citations

Microwave-Promoted Palladium-Catalyzed Coupling Reactions

Larhed, Mats; Hallberg, Ander.
J. Org. Chem. 1996, 61, 9582-9584.

281 citations

Convergent Synthetic Routes to Orthogonally Fused Conjugated Oligomers Directed Toward Molecular Scale Electronic Device Applications

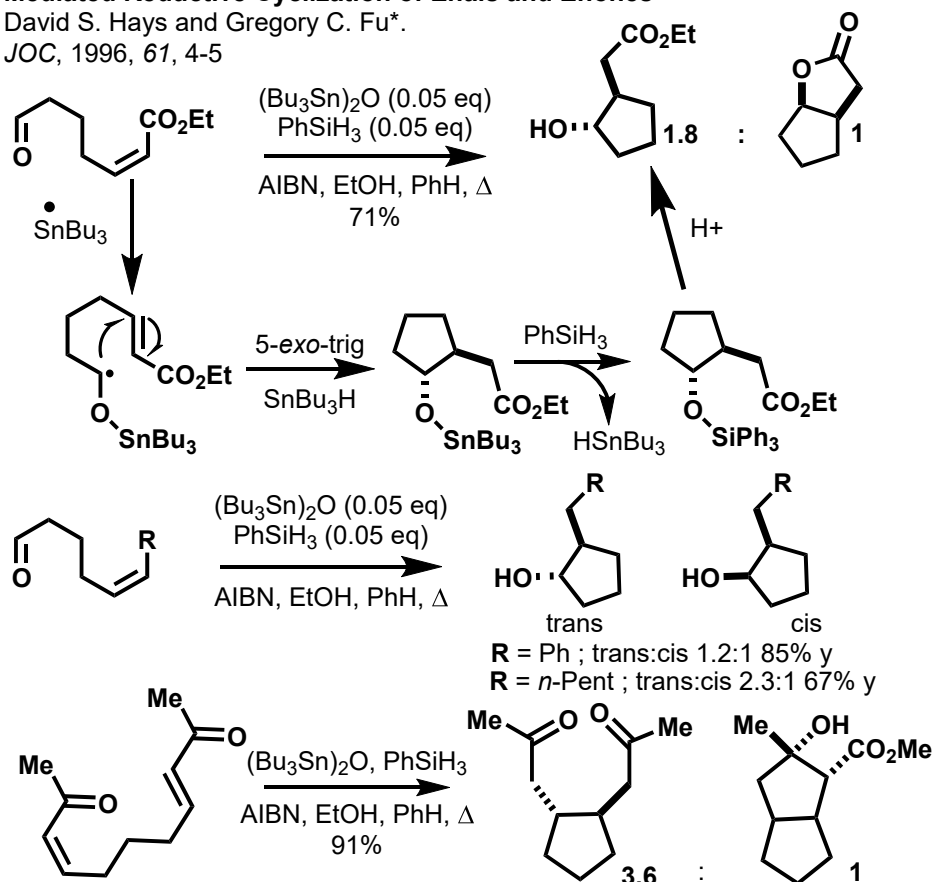
Wu, Ruilian; Schumm, Jeffrey S.; Pearson, Darren L.; Tour, James M.
J. Org. Chem. 1996, 61, 6906-6921.

278 citations

Organotin Hydride Catalyzed Carbon-Carbon Bond Formation: Radical-Mediated Reductive Cyclization of Enals and Enones

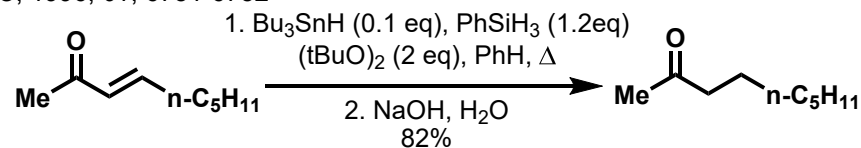
David S. Hays and Gregory C. Fu*

JOC, 1996, 61, 4-5

**Organotin Hydride-Catalyzed Conjugate Reduction of α,β -Unsaturated Ketones**

David S. Hays, Matthias Scholl and Gregory C. Fu*

JOC, 1996, 61, 6751-6752



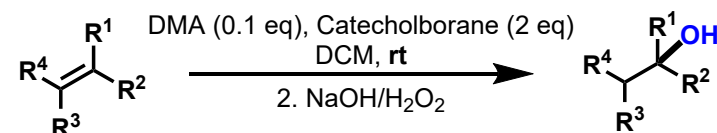
Alkene	Alkane	Yield
		74%
		80%
		76%

Each substrate (6) yields less than 8% 1,2-reduction side-products!

Hydroboration of Olefins with Catecholborane at Room Temperature in the Presence of *N,N*-Dimethylacetamide

Christine E. Garrett and Gregory C. Fu*

JOC, 1996, 61, 3224-5



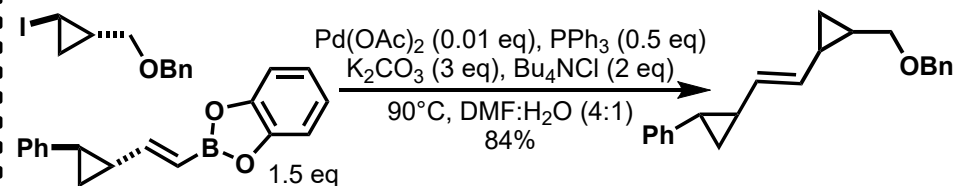
Mono-, Di-, Tri-, and Tetra- Substituted Olefins are hydroborated in 68 - 95% yield

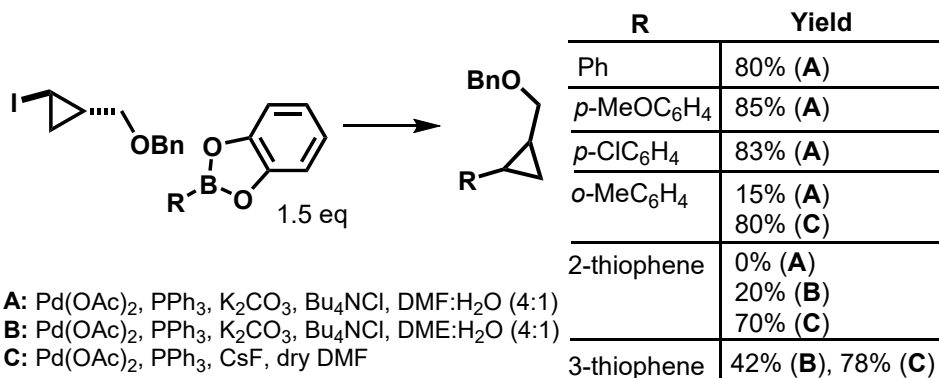
Previous methodologies require high temperatures or transition metals.

Palladium-Catalyzed Suzuki-Type Cross-Couplings of Iodocyclopropanes with Boronic Acids: Synthesis of *trans*-1,2-Dicyclopropyl Alkenes

Andre B. Charette* and Andre Giroux.

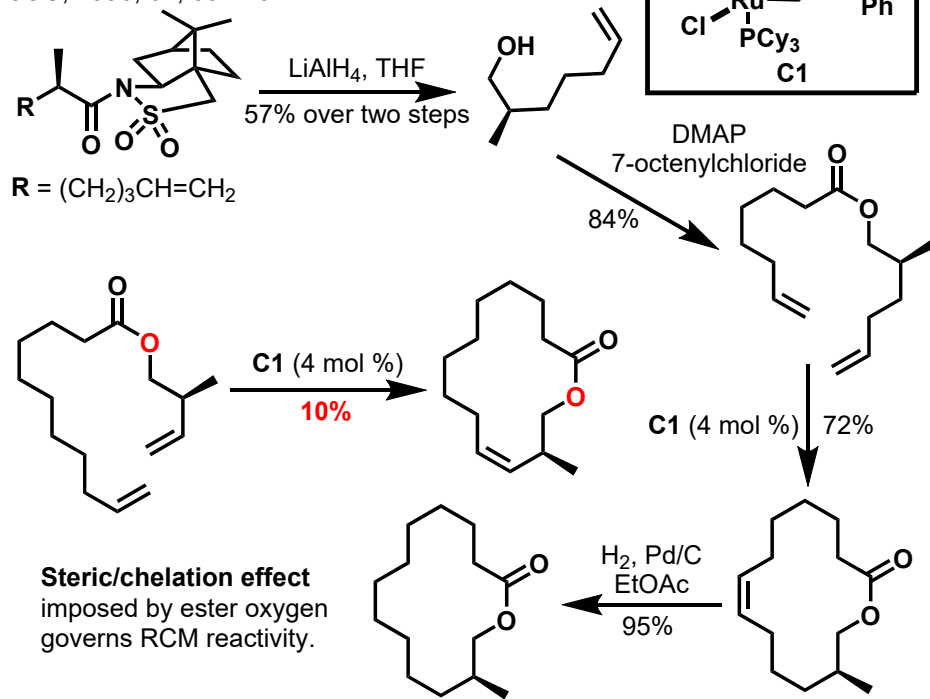
JOC, 1996, 61, 8718-9





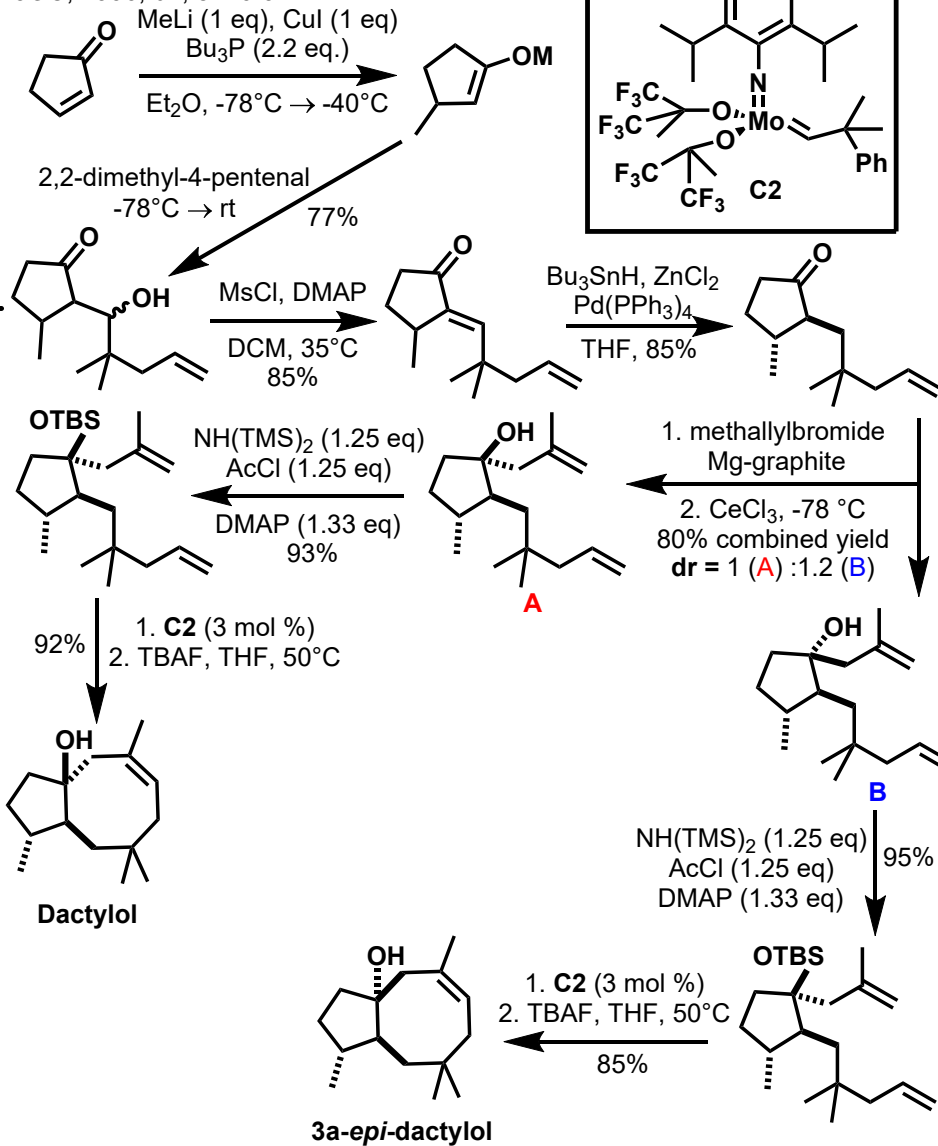
Conformationally Unbiased Macrocyclization Reactions by Ring Closing Metathesis

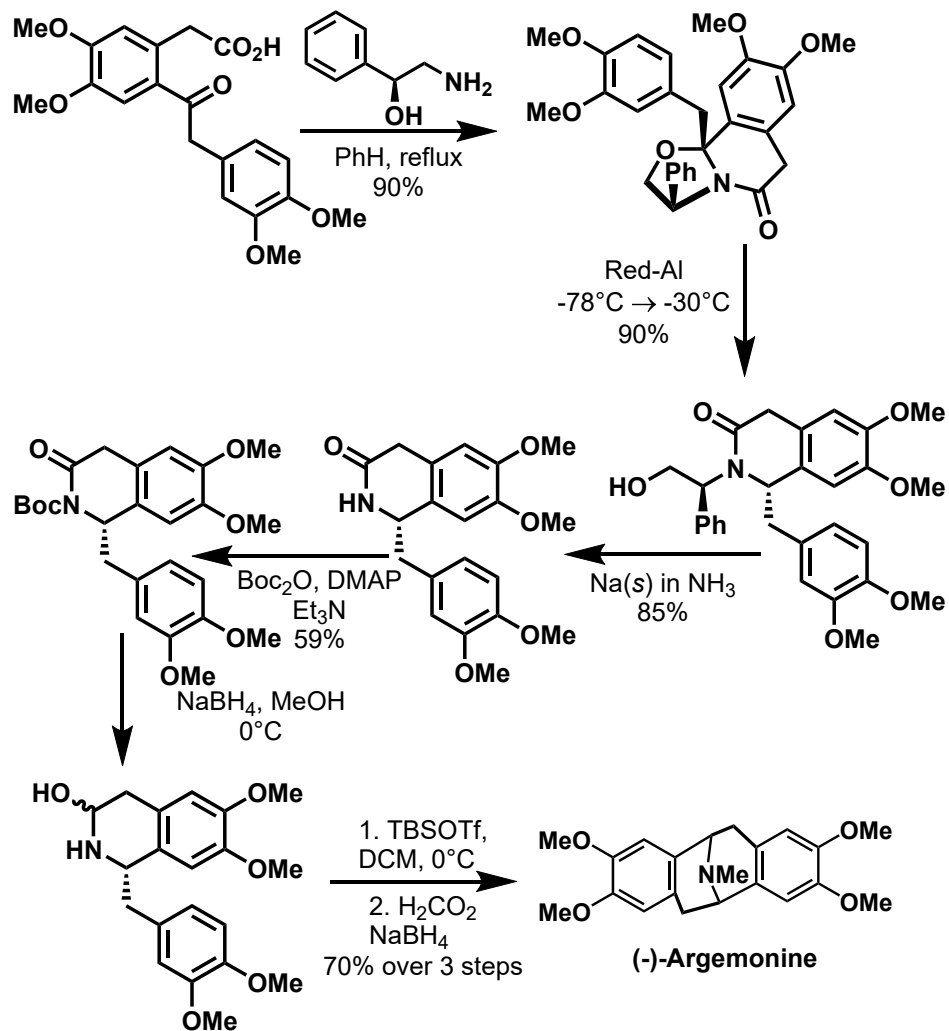
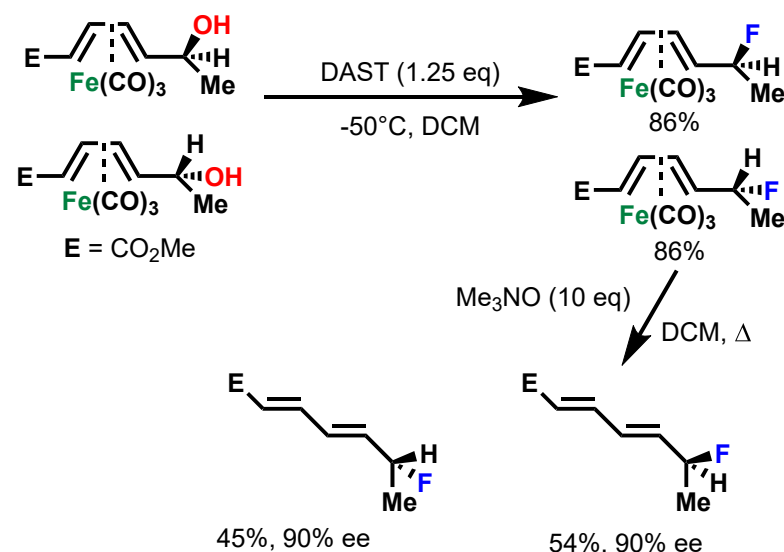
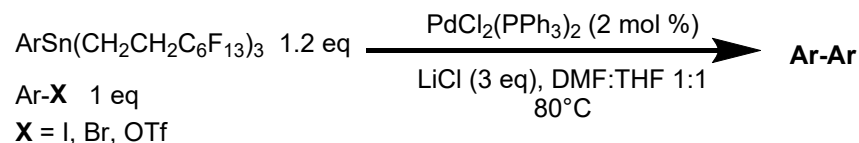
Alois Furstner* and Klaus Langemann.
JOC, 1996, 61, 3942-3



A Concise Total Synthesis of Dactylol via Ring Closing Metathesis

Alois Furstner* and Klaus Langemann.
JOC, 1996, 61, 8746-9

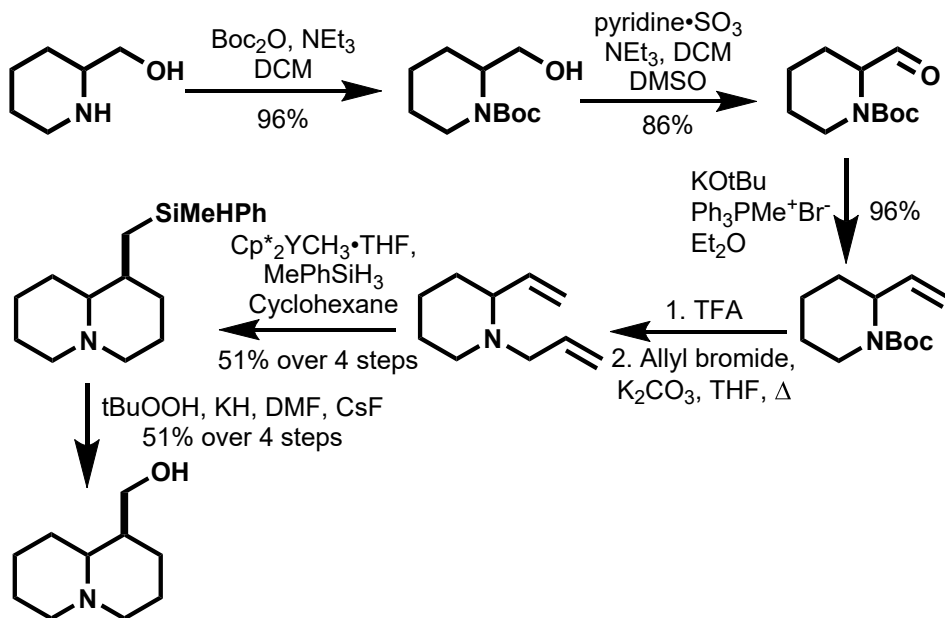


Novel Asymmetric Route to the 1,3-Disubstituted Tetrahydroisoquinoline, (-)-ArgemonineMichael J. Munchhof and Andrew I. Myers*.
JOC, 1996, 61, 4607-4610**The First Enantiocontrolled Synthesis of *E,E* Conjugated Dienes with a Fluorine Atom in the Allylic Position**Danielle M. Gree, Christophe J. Kermarrec, Jacques T. Martelli, Rene L. Gree,*
Jean-Paul Lellouche, Loic J. Toupet.
JOC, 1996, 61, 1918-9**Stereoretentive formation of allylic fluoride complexes via anchimeric assistance with iron tricarbonyl****Stille Couplings with Fluorous Tin Reactants: Attractive Features for Preparative Organic Synthesis and Liquid-Phase Combinatorial Synthesis**Dennis P. Curran* and Masahide Hoshino.
JOC, 1996, 61, 6480-1Triphasic extraction with hexafluorobenzene sequesters tin reagents
Does not tolerate fluorous 2-pyridyl tin reagent for cross coupling

Total Synthesis of (±)-Epilupinine via an Organoyttrium-Catalyzed Sequential Cyclization/Silylation Reaction

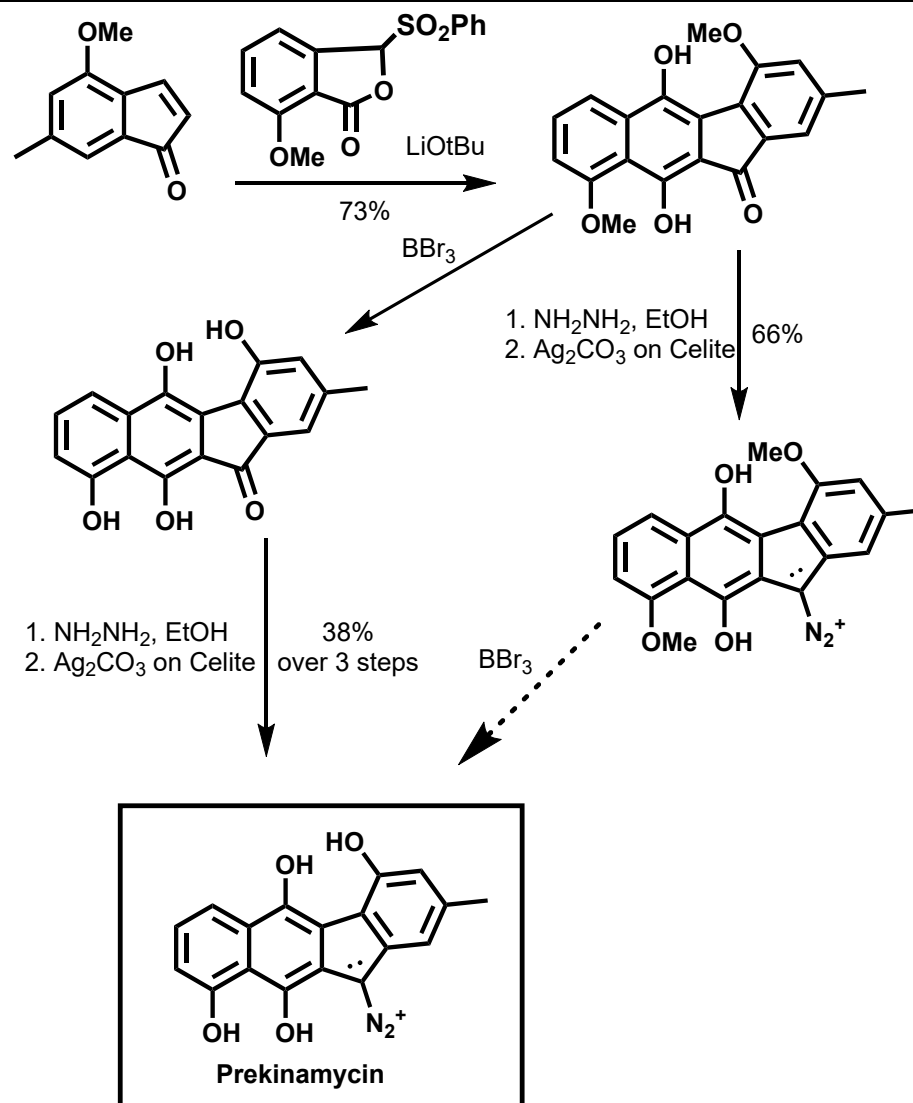
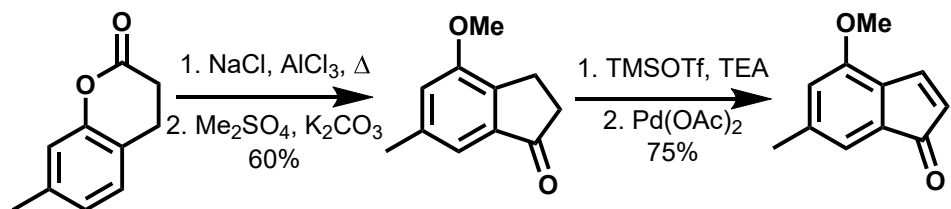
Gary A. Molander* and Paul Nichols.

JOC, 1996, 61, 6040-3


± Epilupinine
Total Synthesis of the Structure Proposed for Prekinamycin

Frank M. Hauser* and Maotang Zhou.

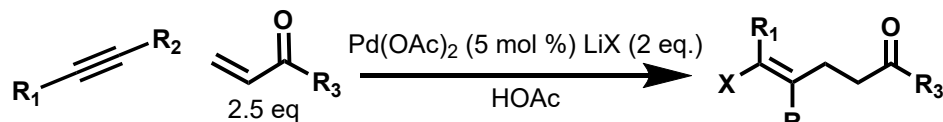
JOC, 1996, 61, 5722



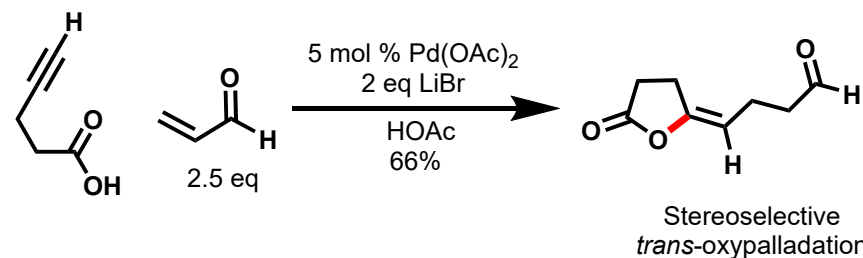
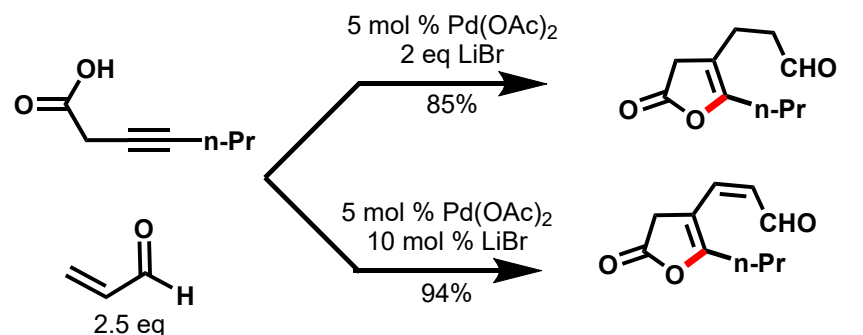
Palladium-Catalyzed Nucleophile-Alkyne- α,β -Unsaturated Carbonyl Coupling through Tandem Nucleopalladation and Conjugate Addition

Zhong Wang and Xiyan Lu.*

JOC, 1996, 61, 2254-5

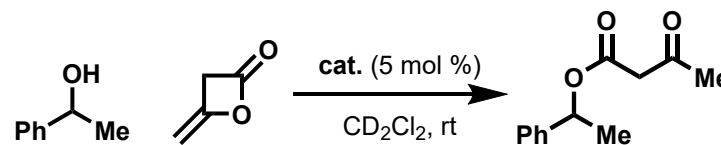
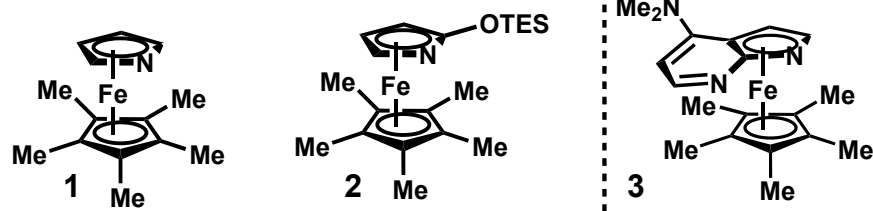


- A: $R_1, R_3 = H, R_2 = COOMe, X = Br$ 79%
 B: $R_1, R_3 = H, R_2 = COOMe, X = Cl$ 85%
 C: $R_1 = Me, R_2 = COOBn, R_3 = Me, X = Cl$ 75%

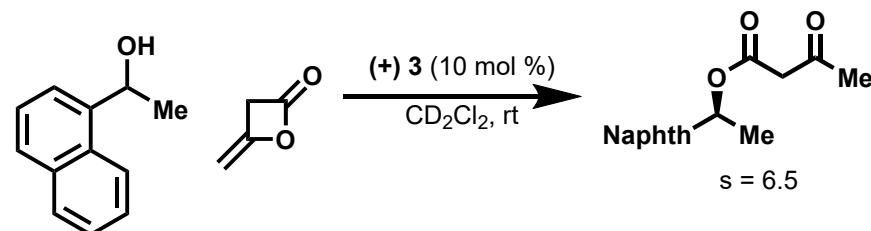
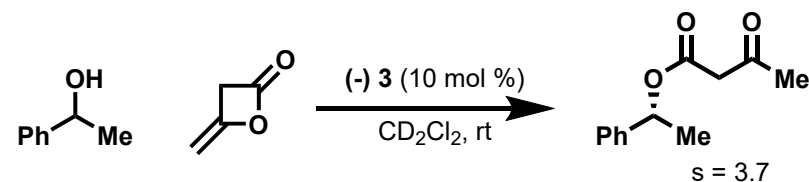
 **$Pd(OAc)_2$ -LiX can be reused by drying the aqueous solution after workup!**For recent Pd(II) chemoselective protopalladation methodology, see:
JACS, 2016, 138, 5805–5808; JACS, 2015, 137, 13748–13751**Chiral p-Complexes of Heterocycles with Transition Metals: A Versatile New Family of Nucleophilic Catalysts**

Craig J. Ruble and Gregory C. Fu*.

JOC, 1996, 61, 7320-1

synergistic top/bottom-face
and left/right-side distinction

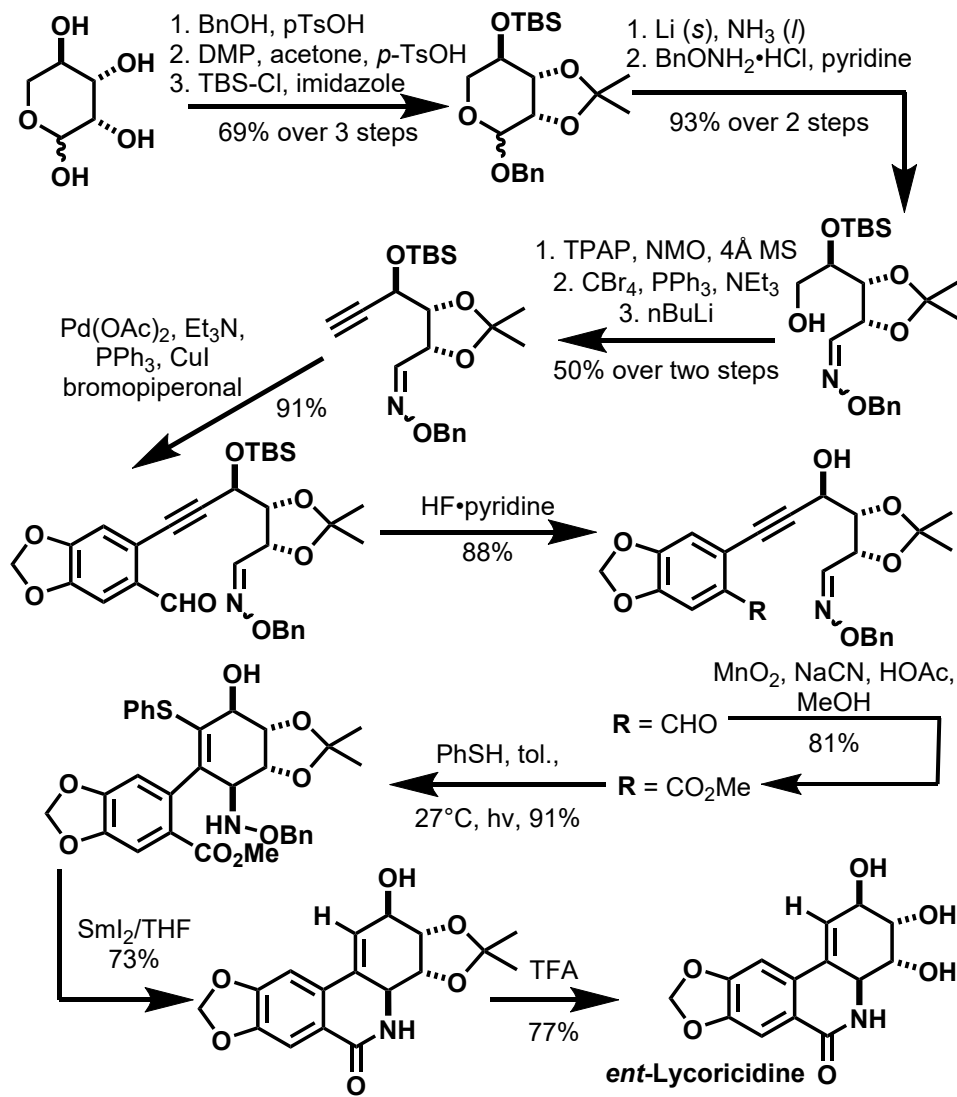
complex	half-life (min)
1	16
2	<3
none	no reaction

Enantioselection is switchable based on catalyst stereochemistry

Total Synthesis of *ent*-Lycoricidine via a Thiyl Radical Addition-Cyclization Sequence

Gary E. Keck* and Travis T. Wager.

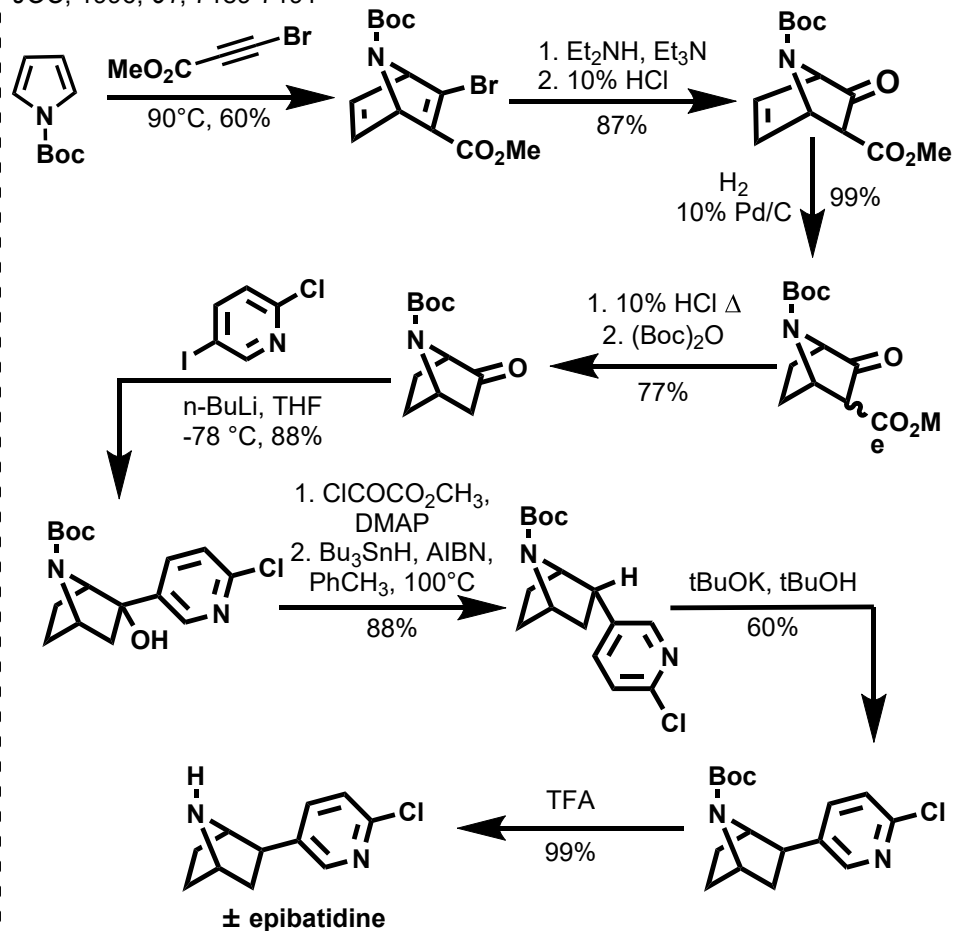
JOC, 1996, 61, 8366-7



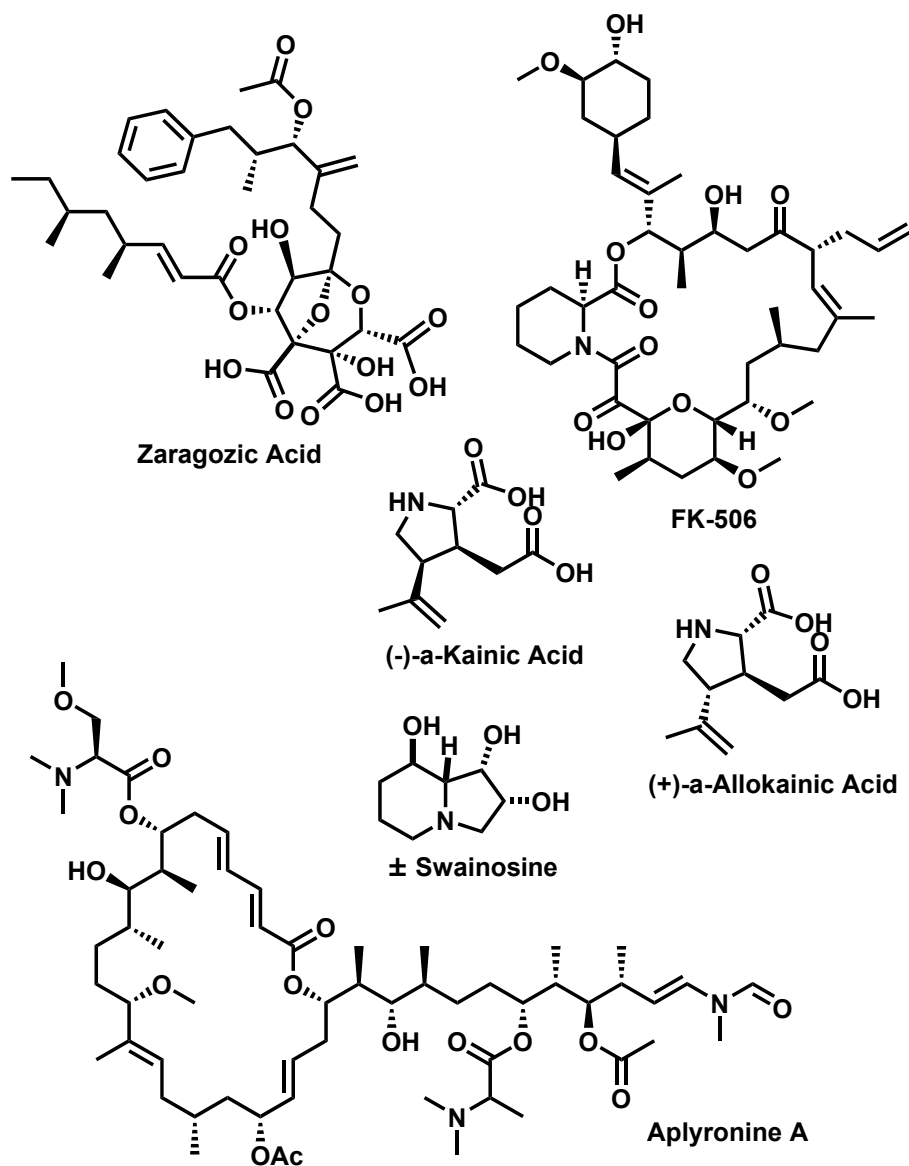
A Short and Efficient Total Synthesis of (±)-Epibatidine

Chunming Zhang and Mark L. Trudell*.

JOC, 1996, 61, 7189-7191



Selected Total Synthesis of Natural Products/Drugs



Selected Natural Product Isolations

