

SYNLETT

Accounts and Rapid Communications in Synthetic Organic Chemistry

Cluster

Gold Catalysis

Editors: Hisashi Yamamoto, F. Dean Toste

Synpacts

J. Zhou

Recent Developments in Asymmetric
Coupling of Enolates

Accounts

H. Y. Harb, D. J. Procter

SmI_2 -Mediated Carbonyl-Alkene
Couplings for the Synthesis of Small
Carbocyclic Rings

S. Chiba

Application of Organic Azides for
the Synthesis of Nitrogen-Containing
Molecules

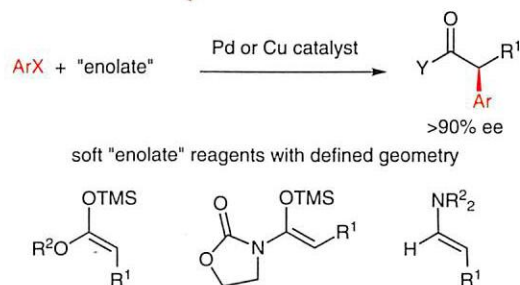
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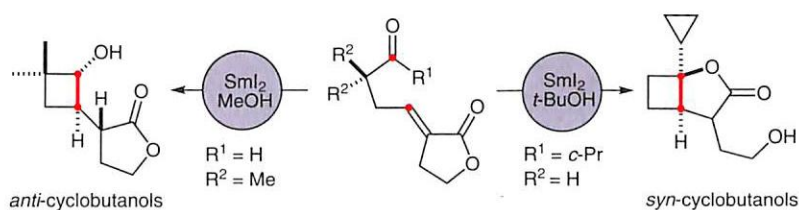
Recent Developments in Asymmetric Coupling of Enolates



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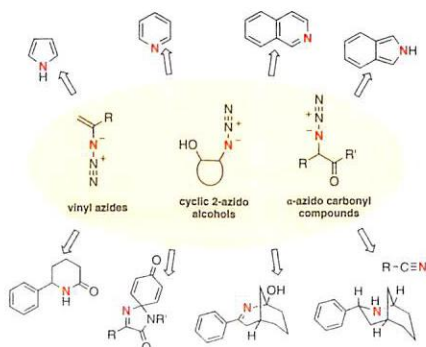
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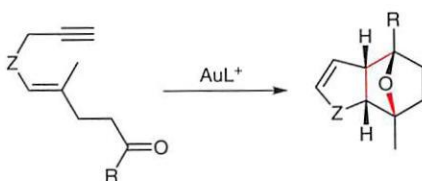
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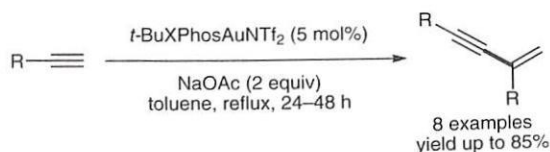
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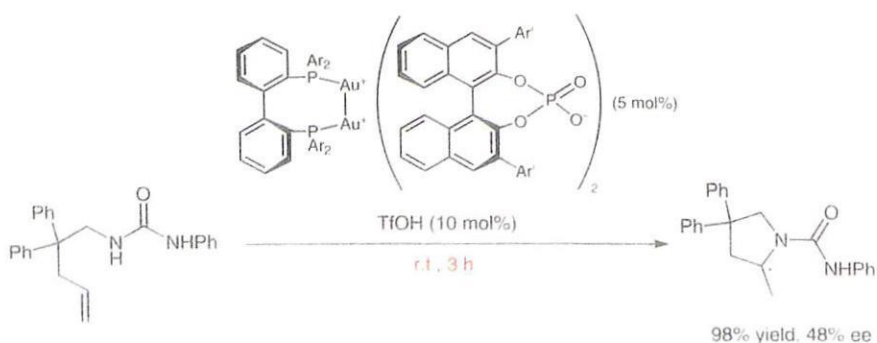
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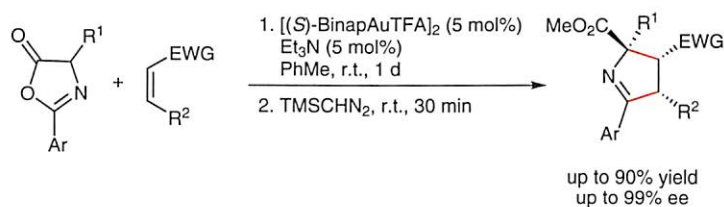


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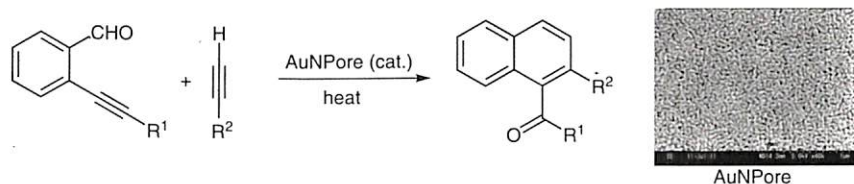
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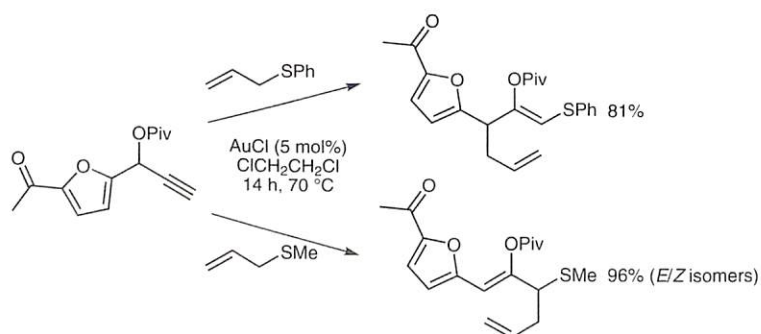
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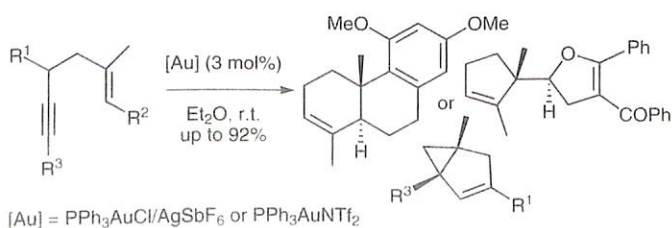
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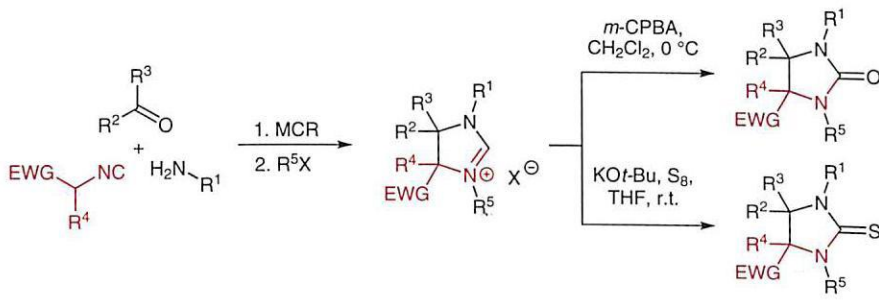
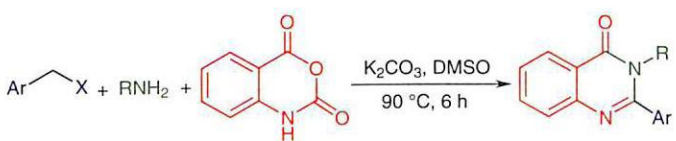
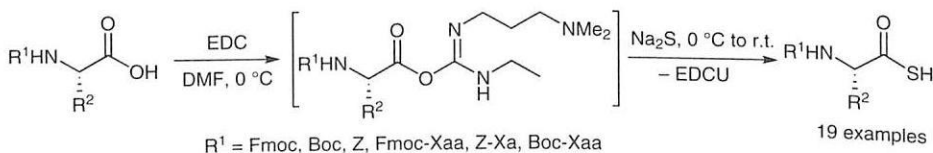
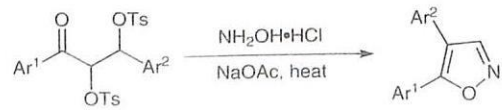
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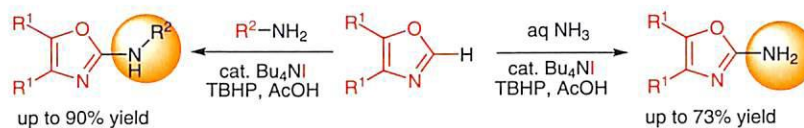
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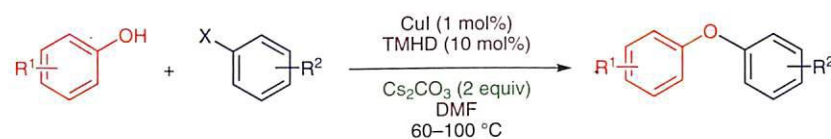
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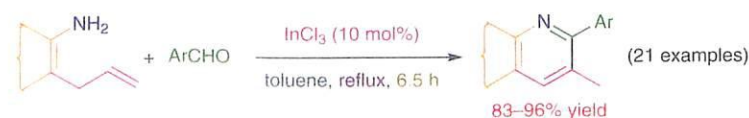
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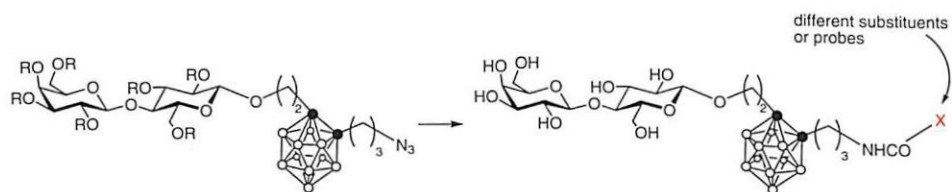
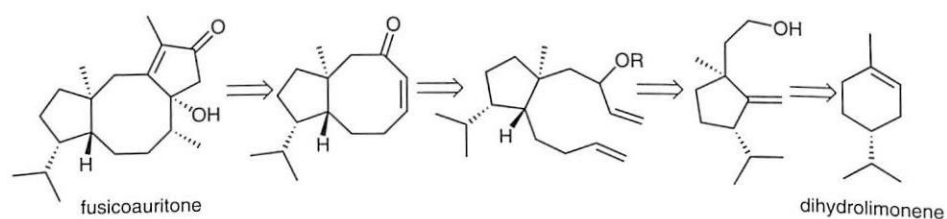
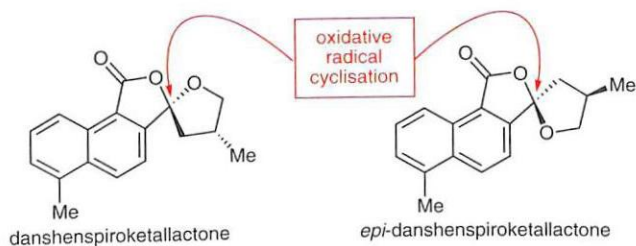
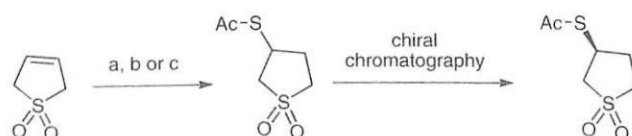
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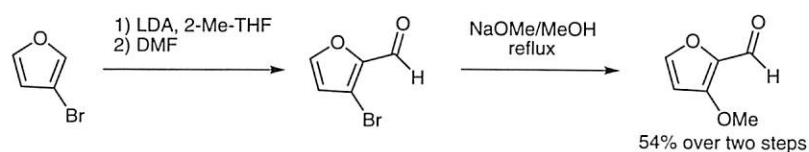


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 (c) AcSH, AIBN, PhMe, 30%.

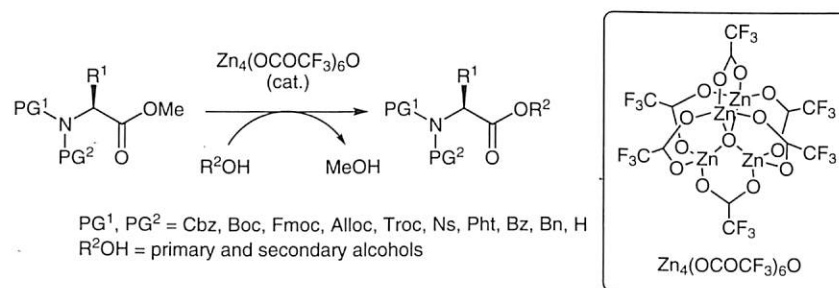
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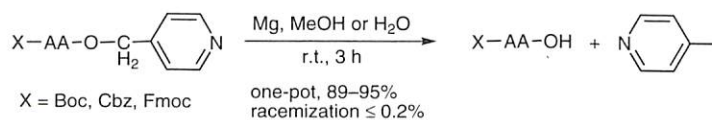
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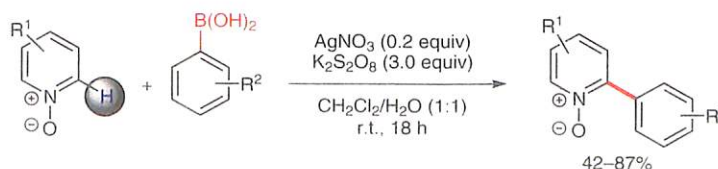
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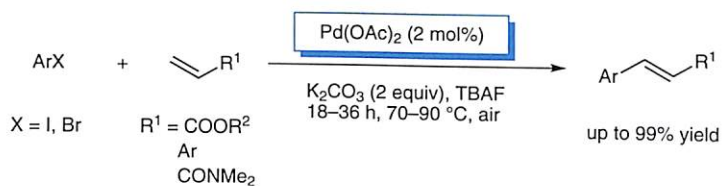
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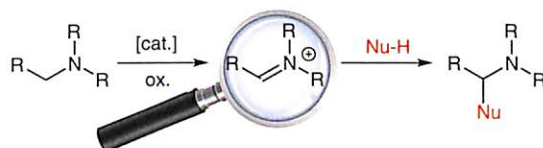
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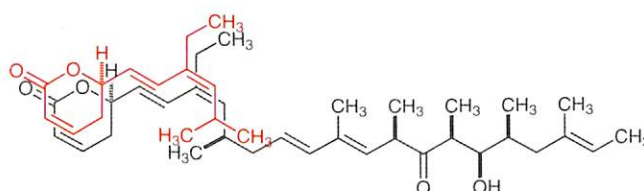
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Oxidative Coupling of Tertiary Amines: Scope, Mechanism and Challenges



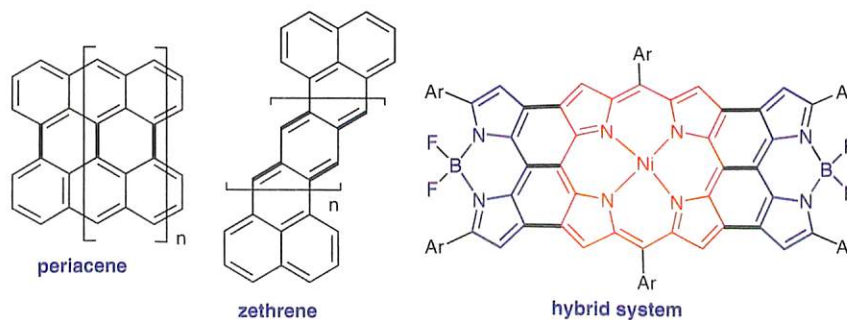
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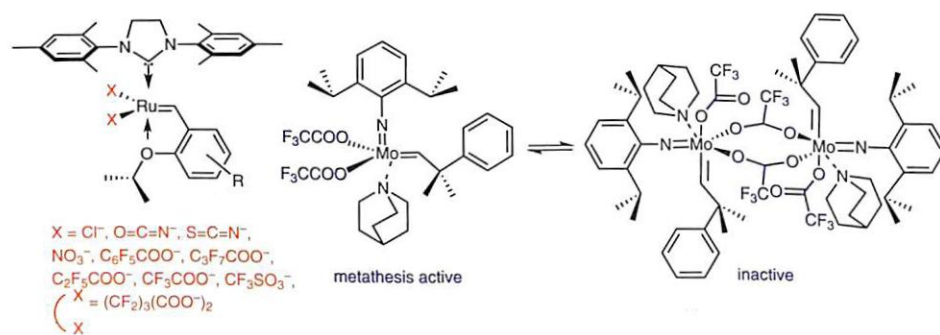
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Fused Polycyclic Aromatic Compounds with Near Infrared Absorption and Emission



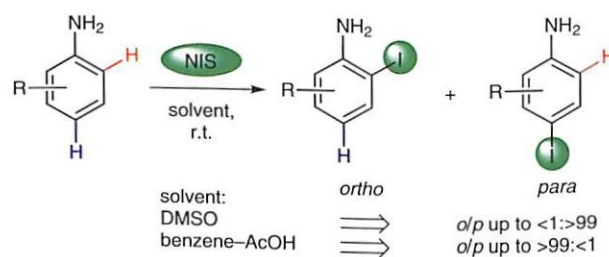
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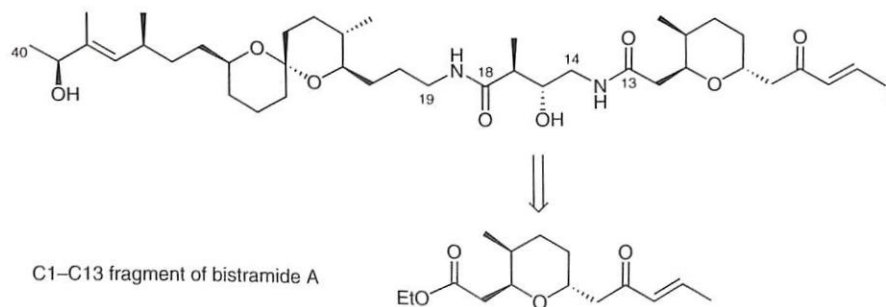
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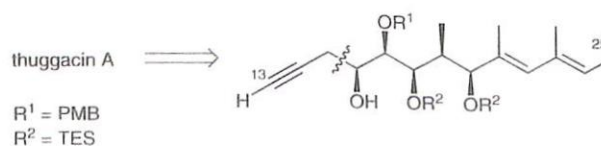
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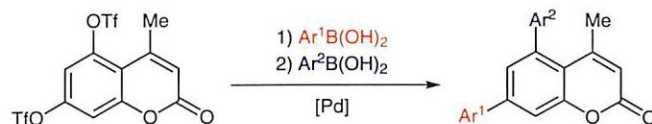
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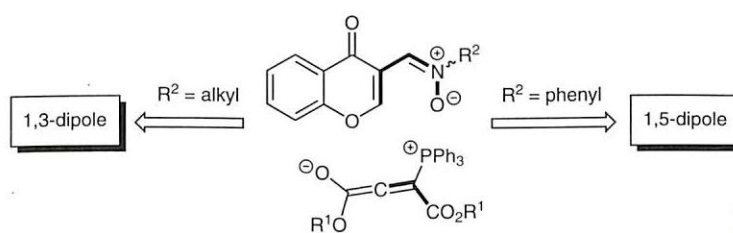
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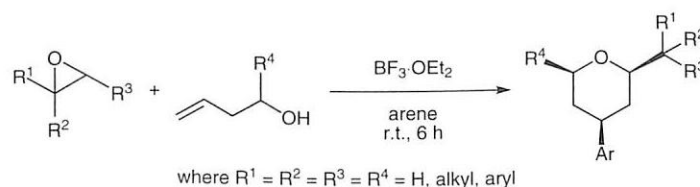
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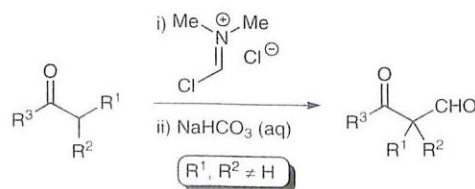
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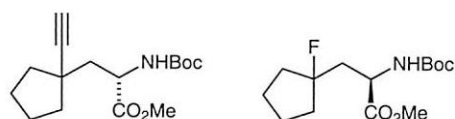


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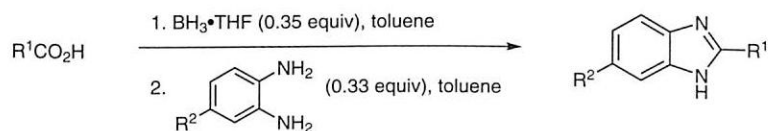
α -Formylation of α -Substituted Ketones



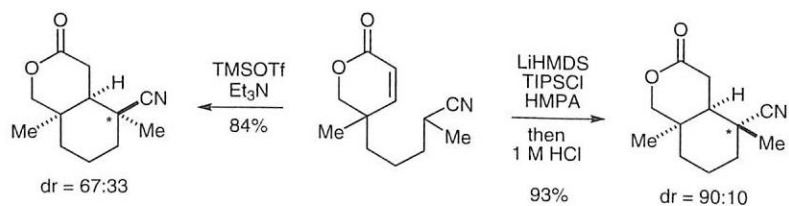
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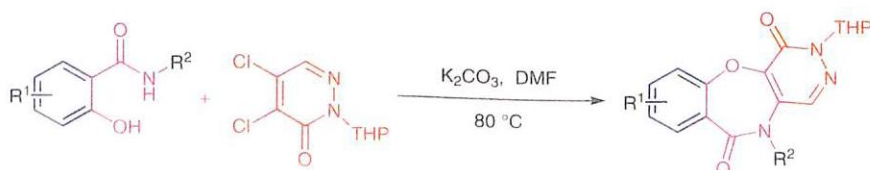
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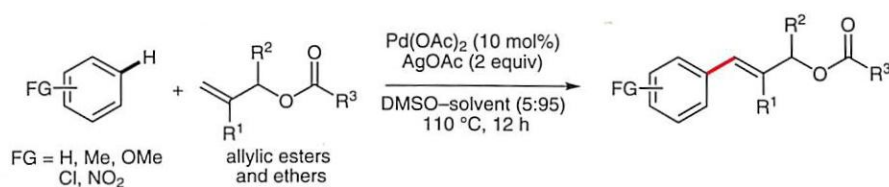


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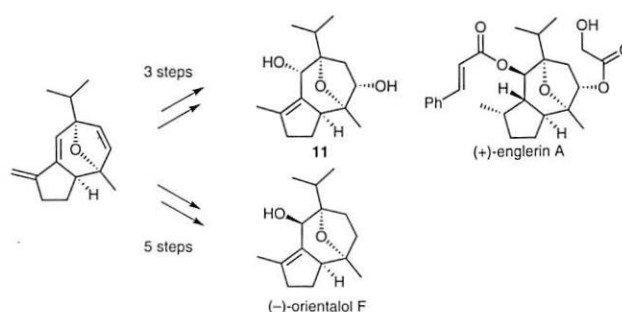
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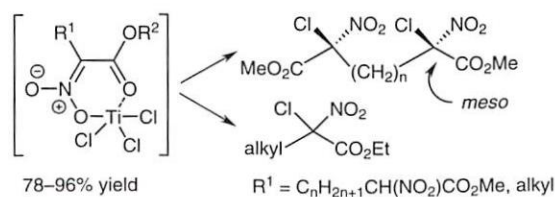
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Concise Formal Synthesis of (+)-Englerin A and Total Synthesis of (-)-Orientalol F: Establishment of the Stereochemistry of the Organocatalytic [4+3]-Cycloaddition Reaction



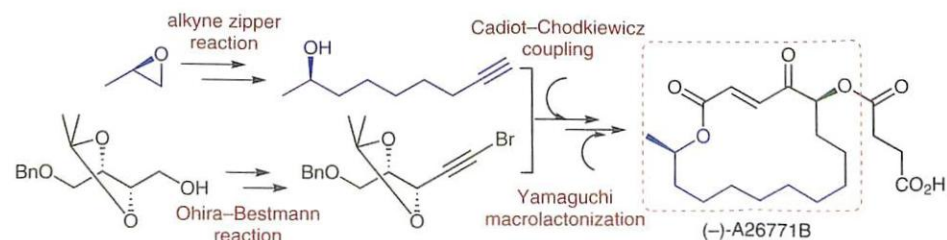
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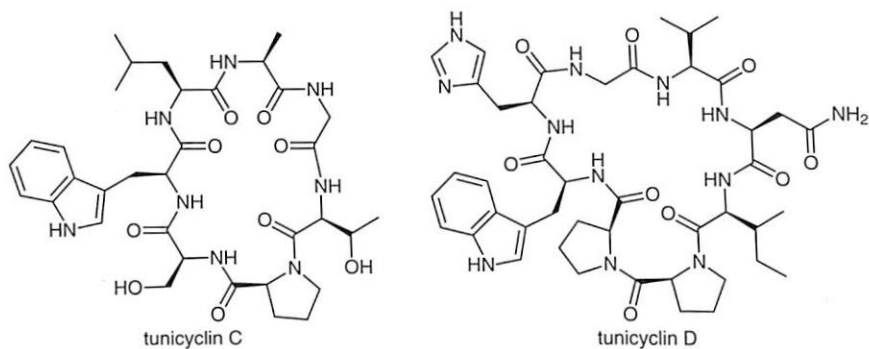
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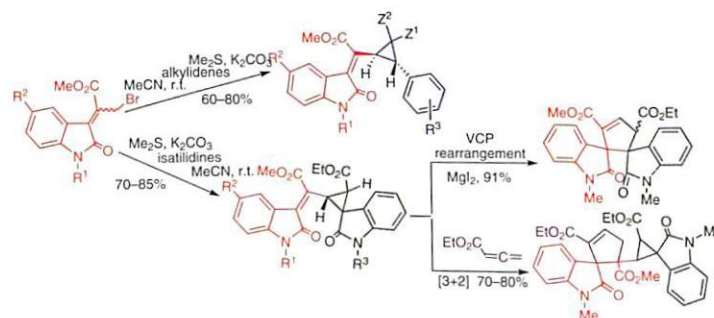
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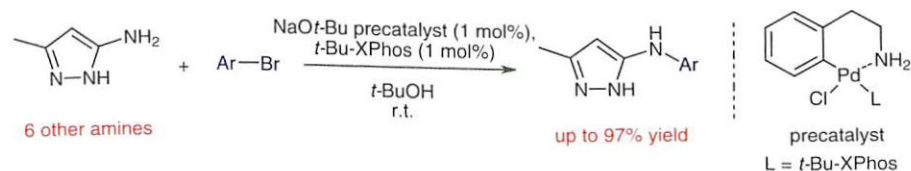
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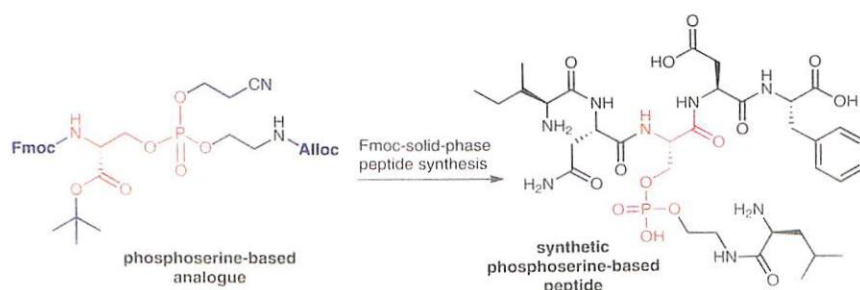
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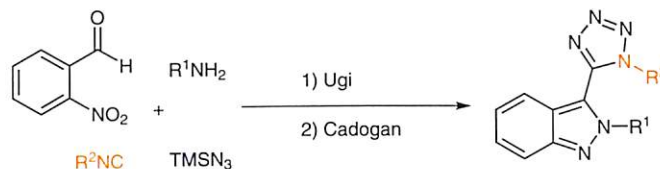
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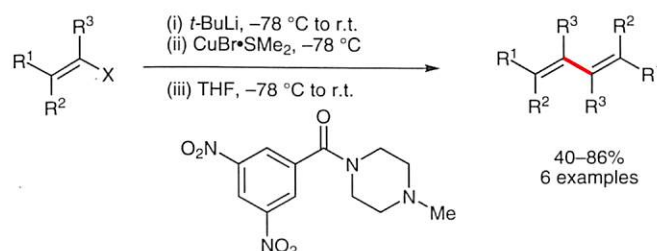
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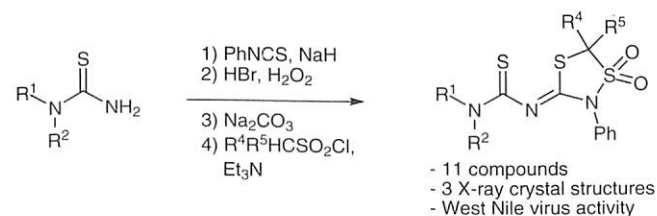
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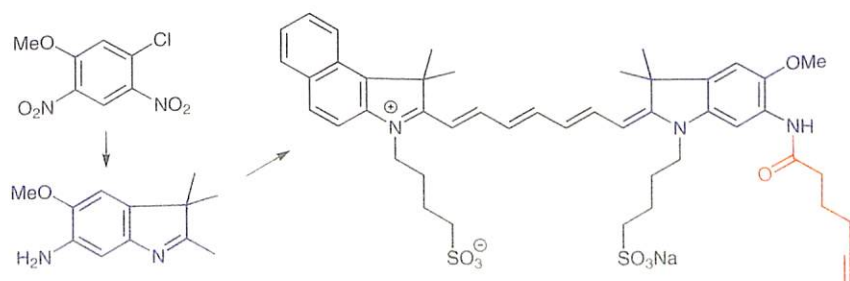
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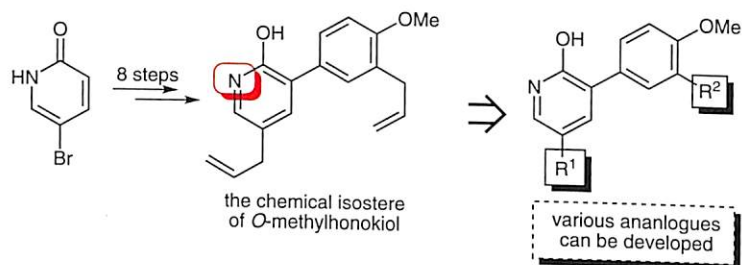
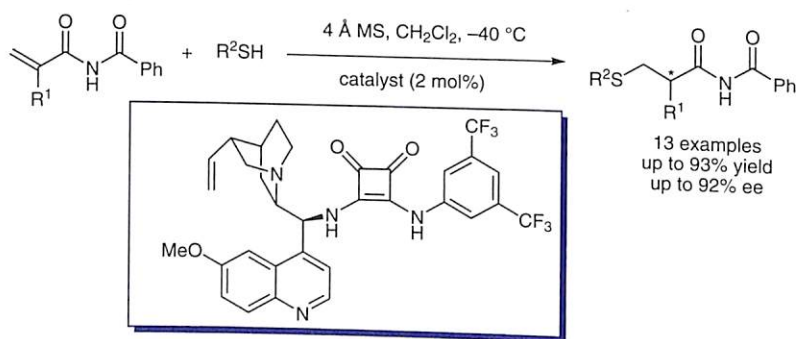
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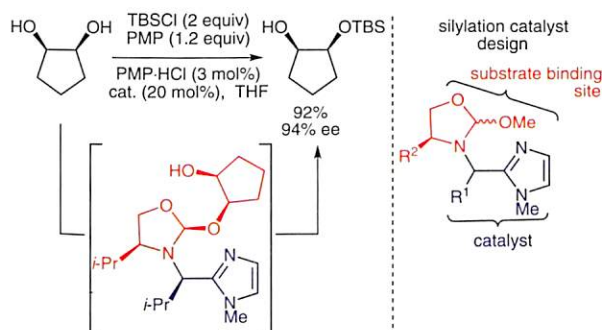
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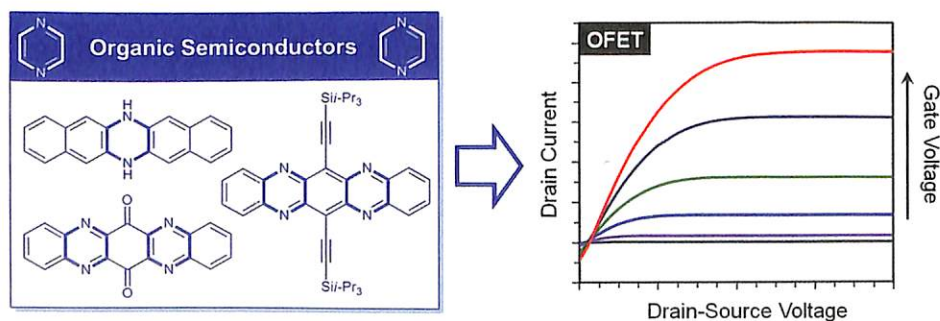
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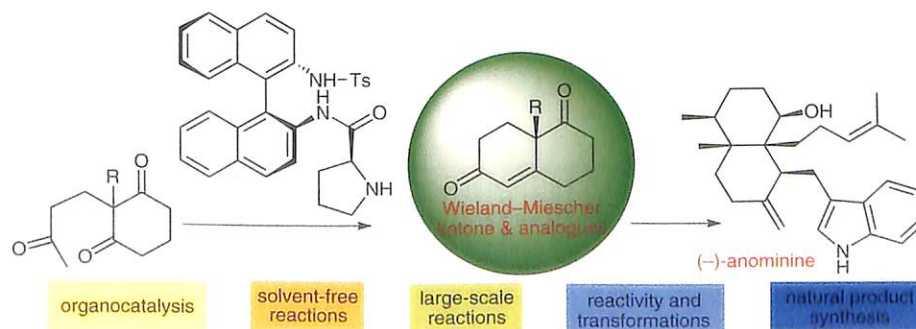
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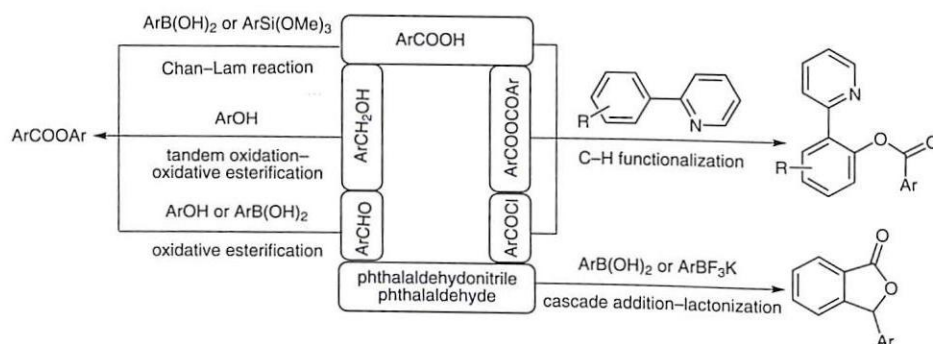
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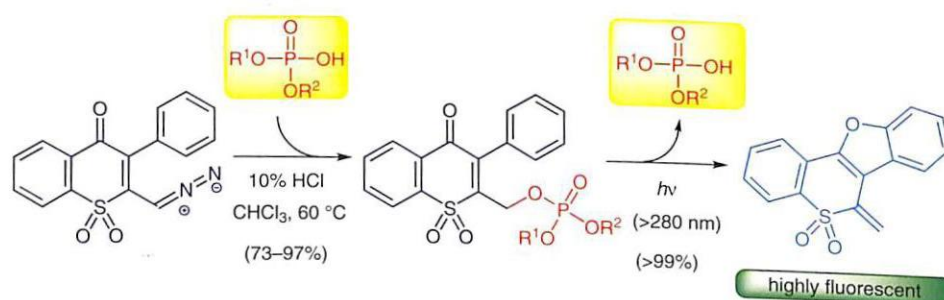
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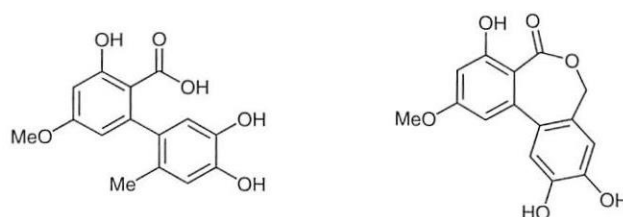
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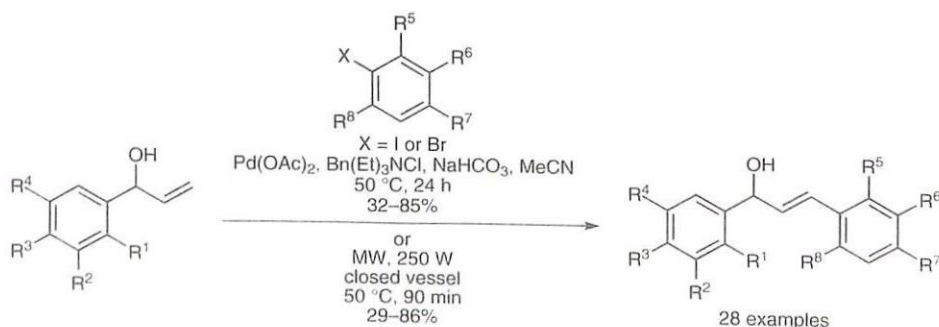
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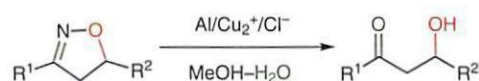
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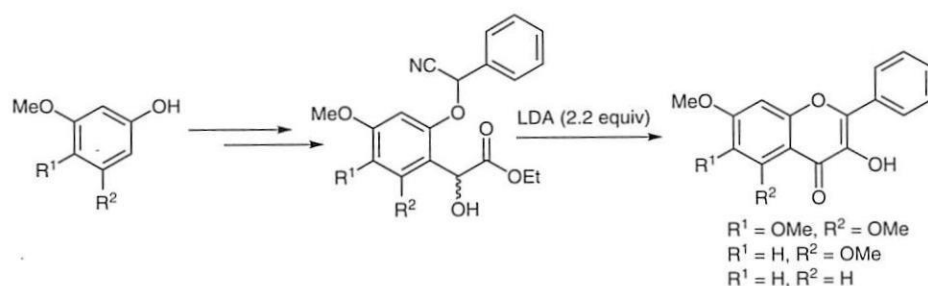
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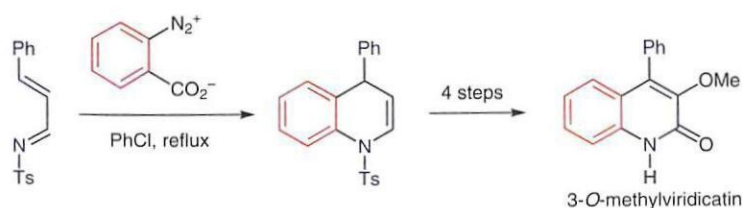
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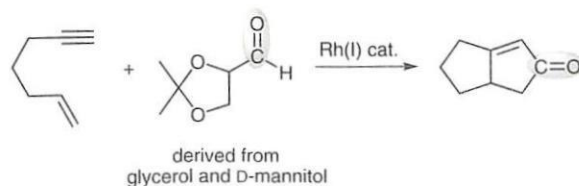
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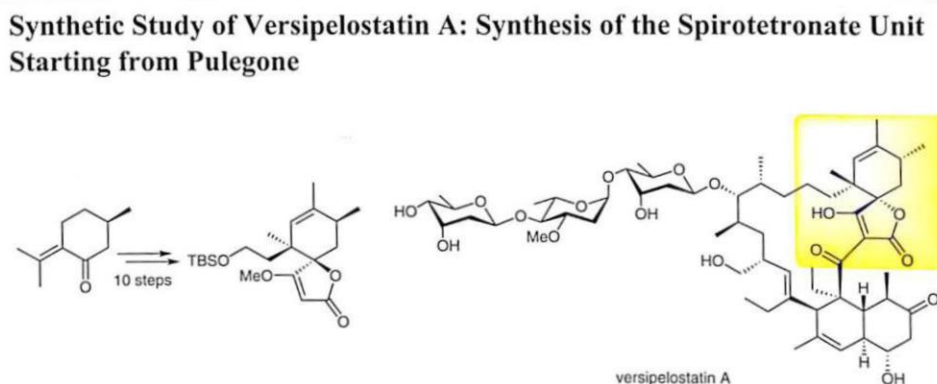


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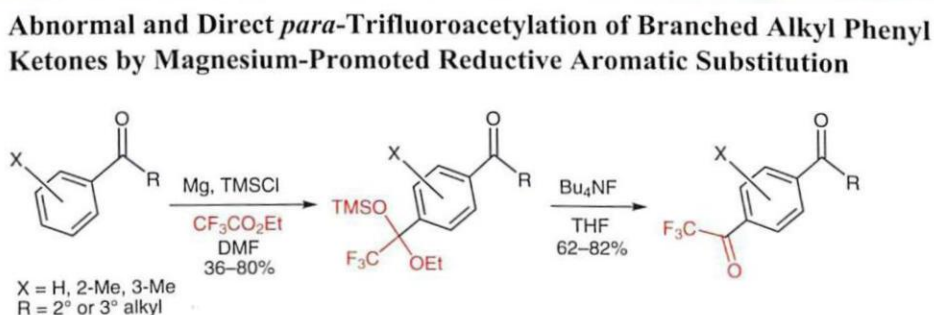
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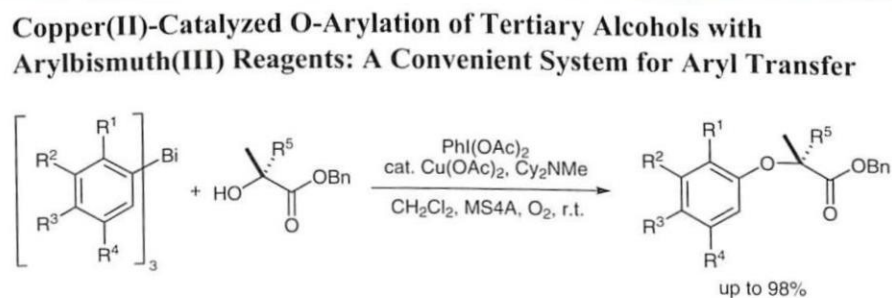
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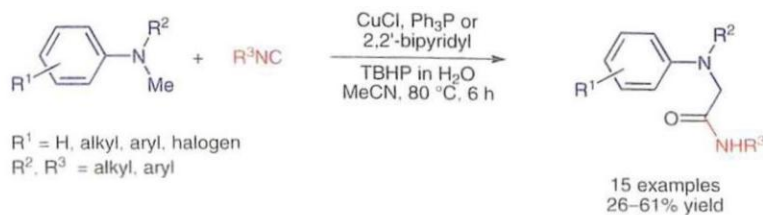


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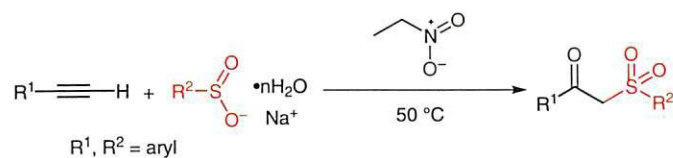
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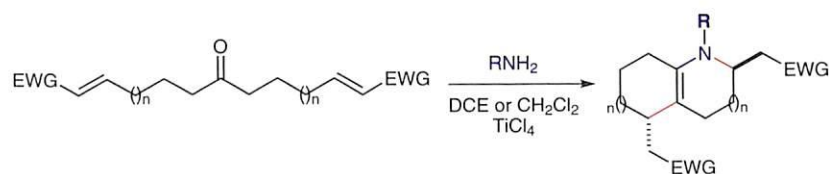
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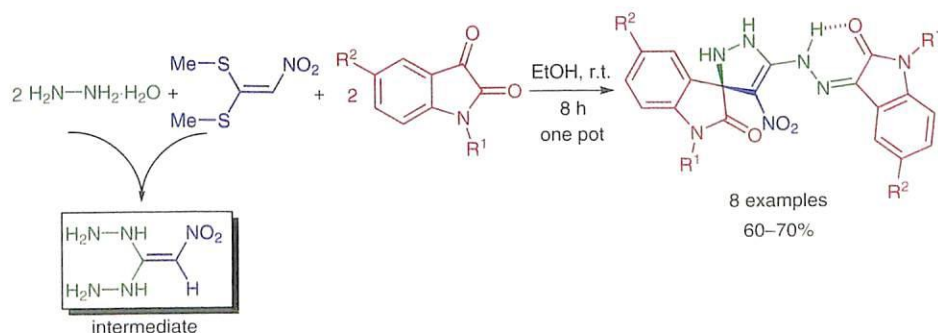
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6 examples, 2–65% yield, up to 3:1 dr

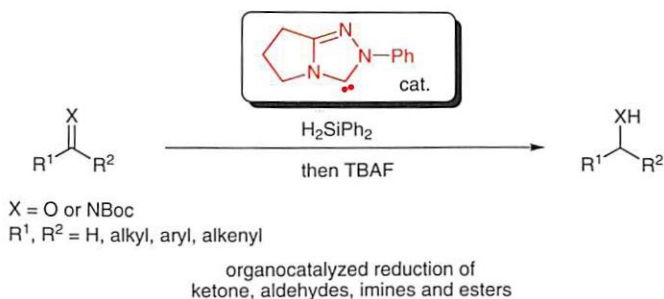
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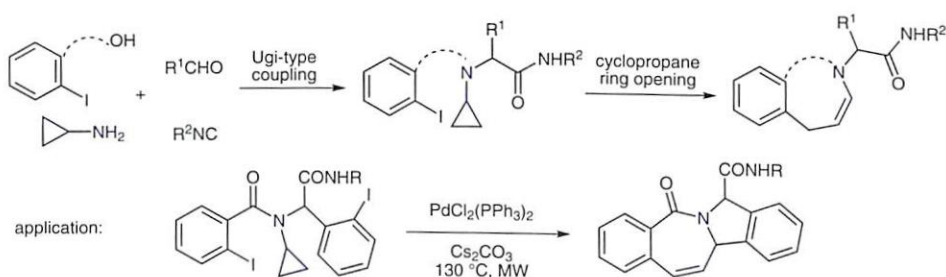
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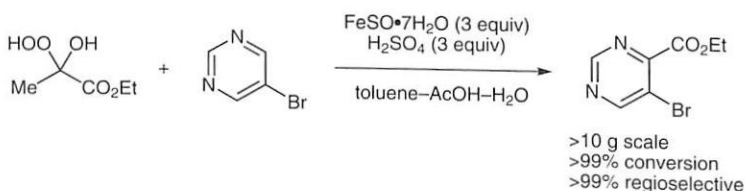
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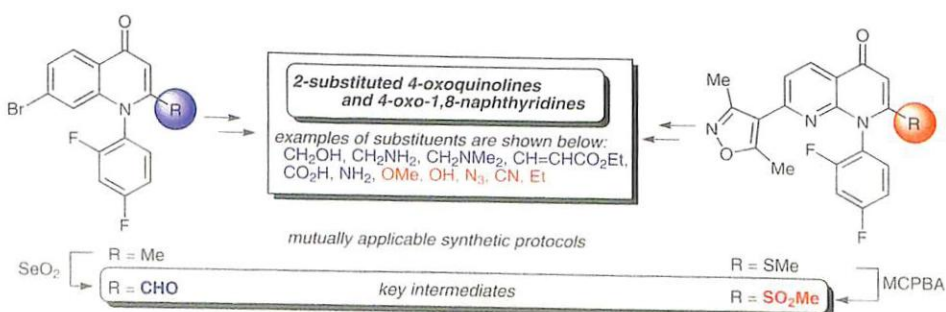
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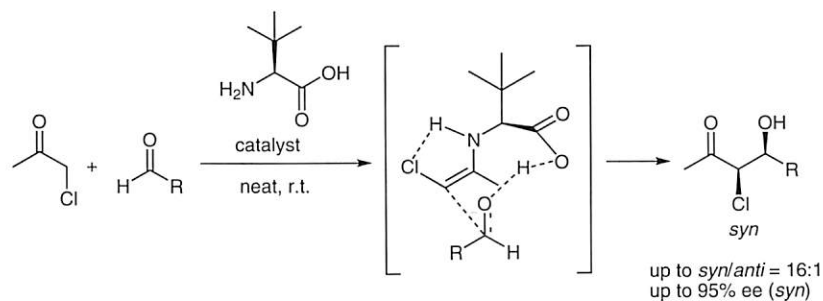
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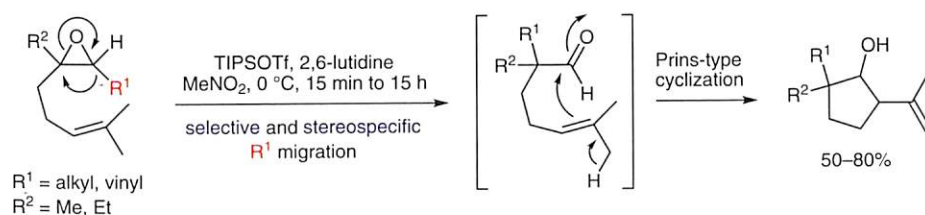
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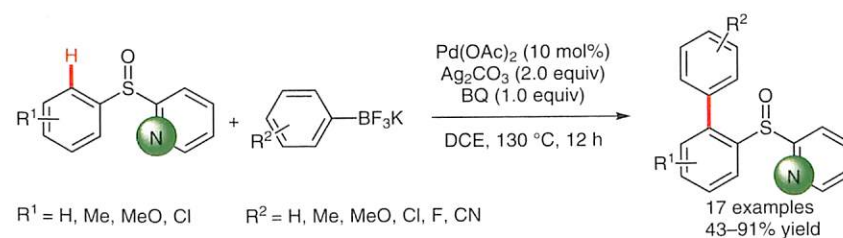
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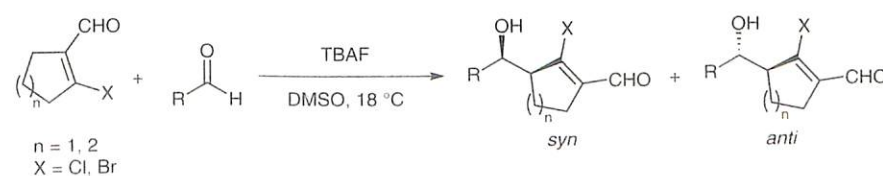
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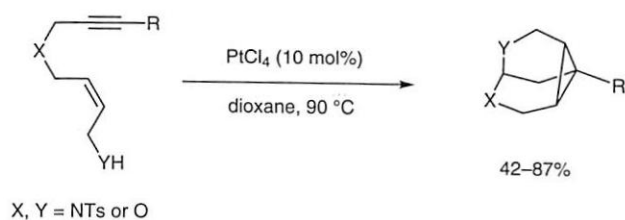


- 468 J. Zhang
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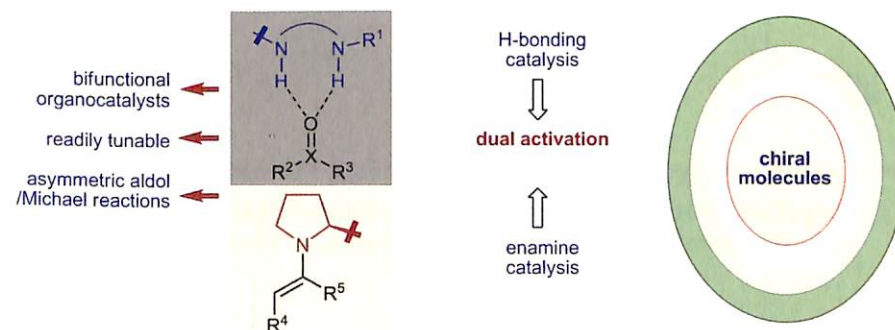
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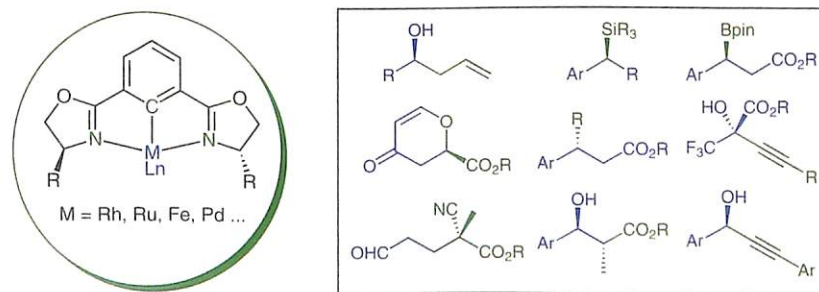
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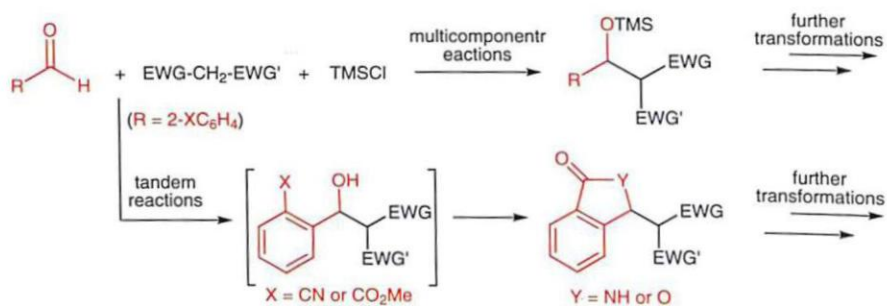


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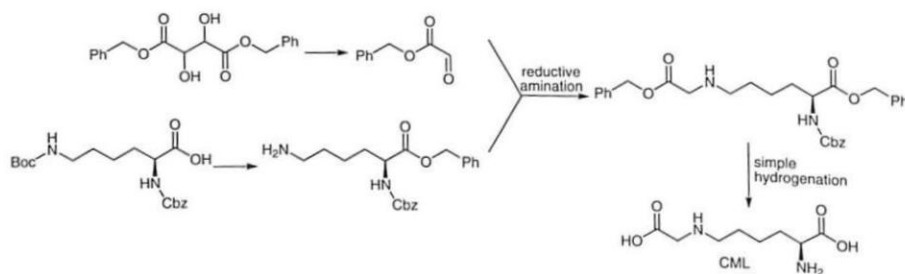
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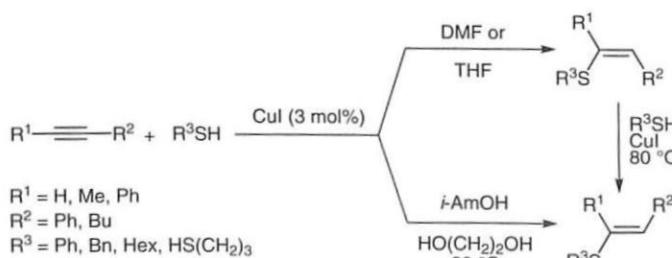
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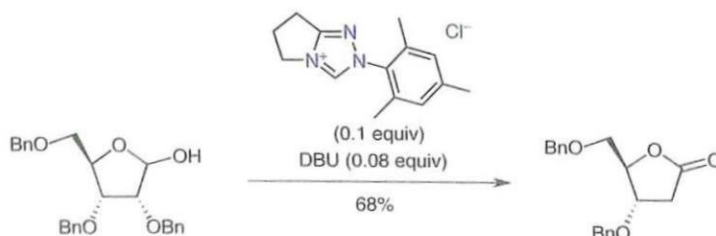
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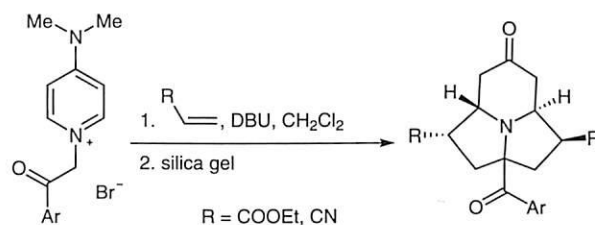


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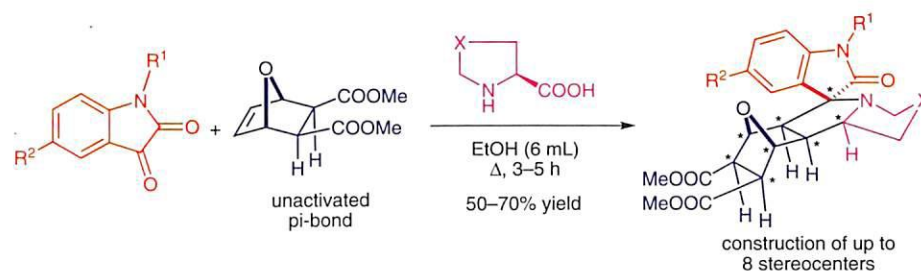
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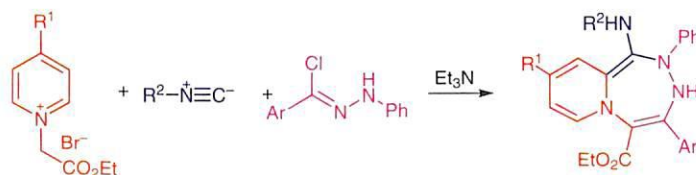
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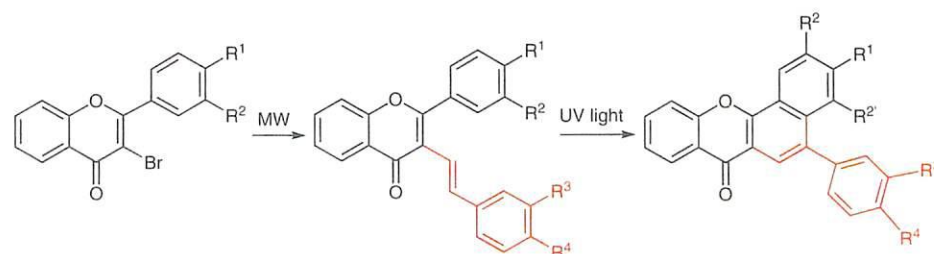
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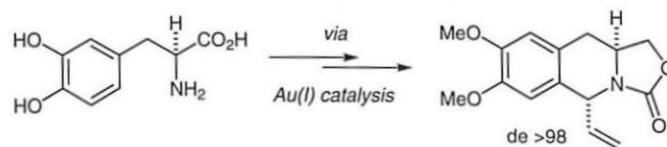


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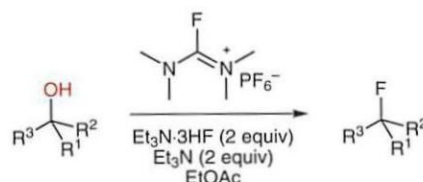
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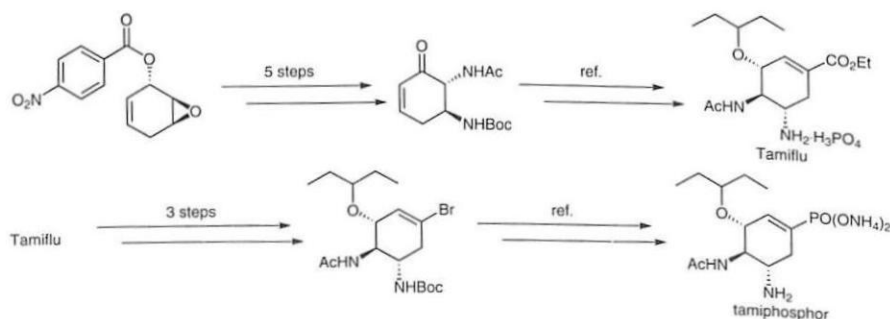
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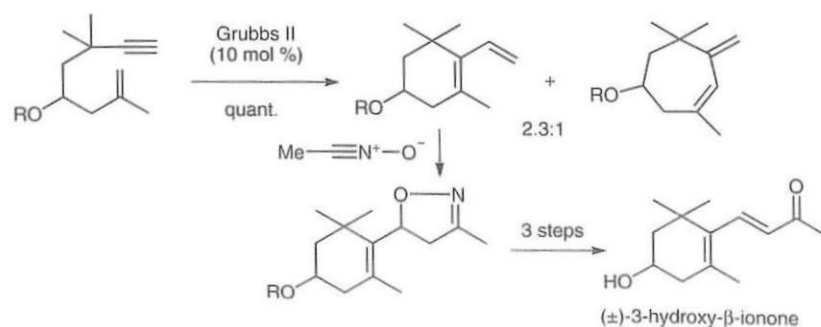
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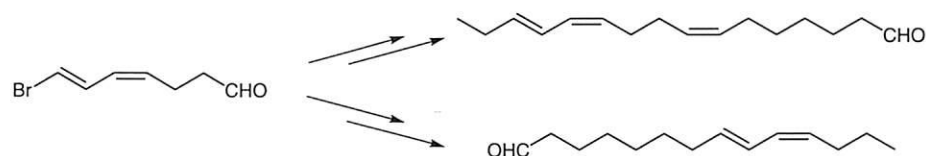


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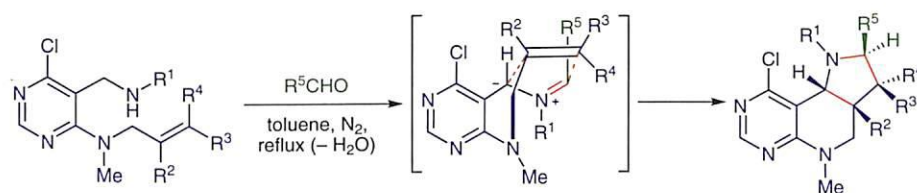
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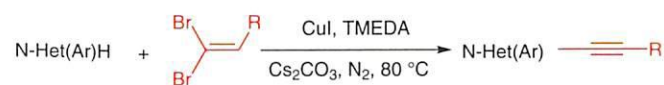
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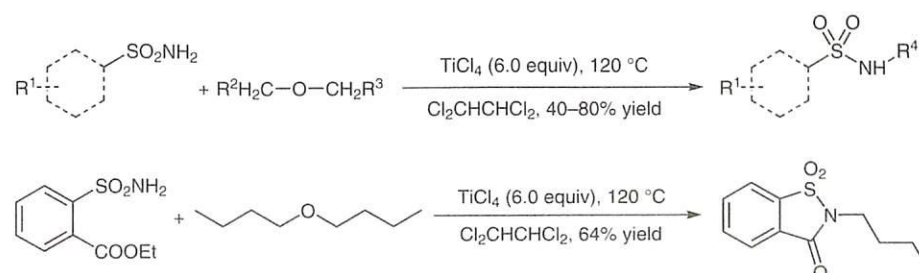
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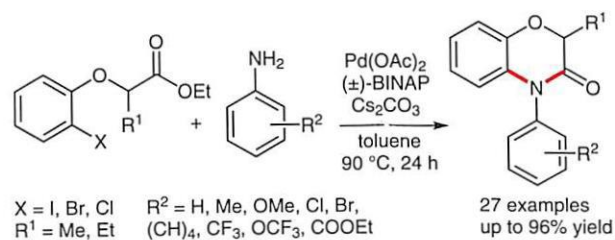
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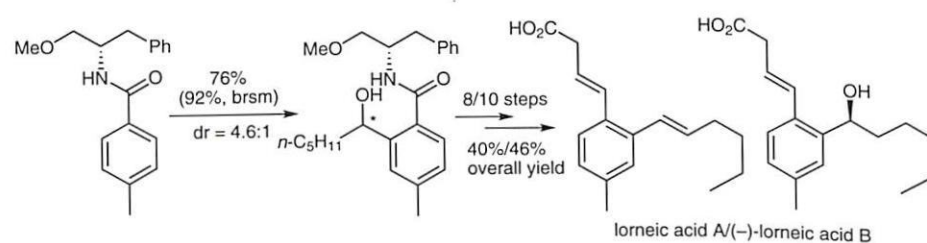
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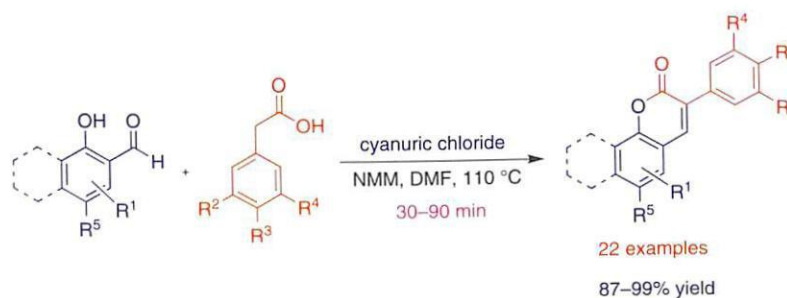
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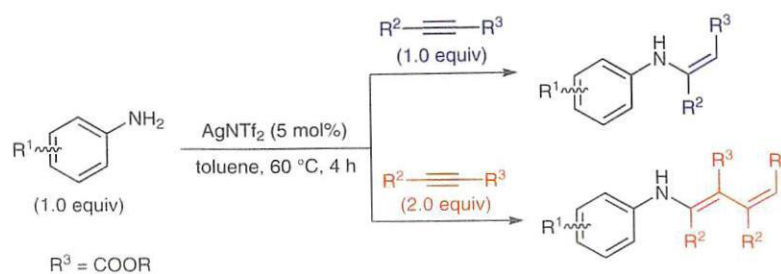
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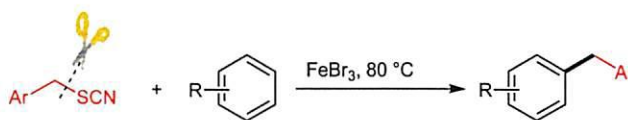
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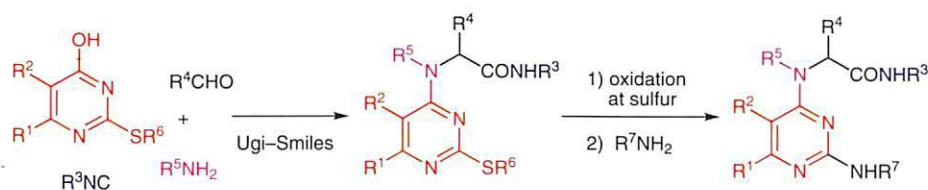
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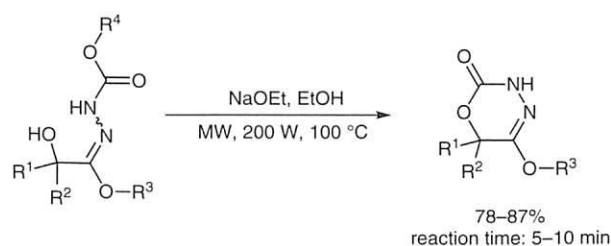
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640 Compiled by
P. Ábrányi-Balogh

1,3-Dipoles: Nitrile Imines, Nitrile Oxides and Nitrile Sulfides

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Compiled by
I. L. Gama

Zinc Borohydride

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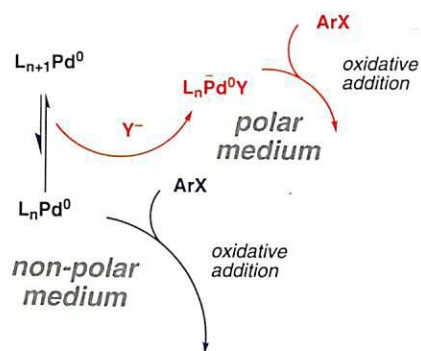
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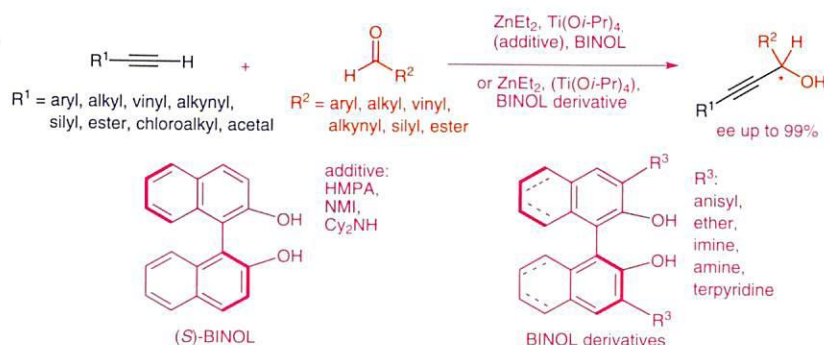
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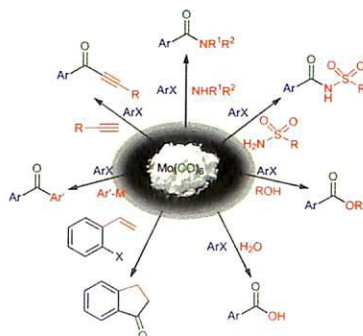
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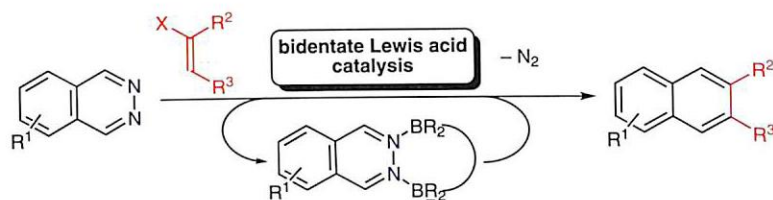
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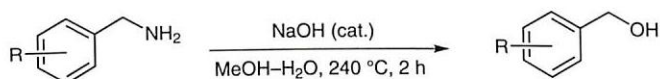
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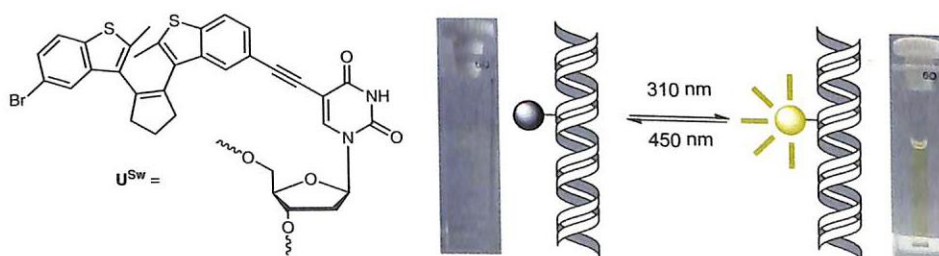
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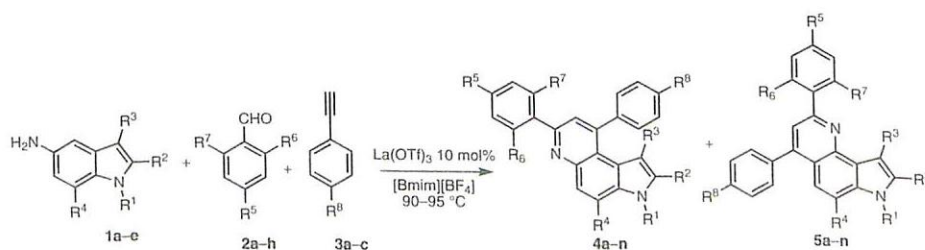
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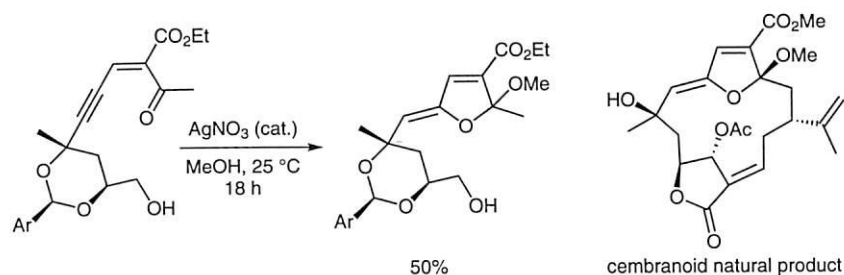
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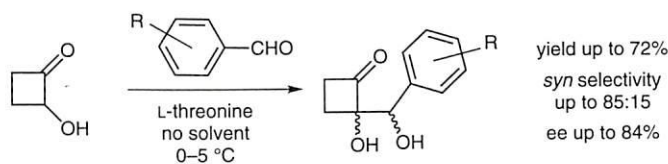
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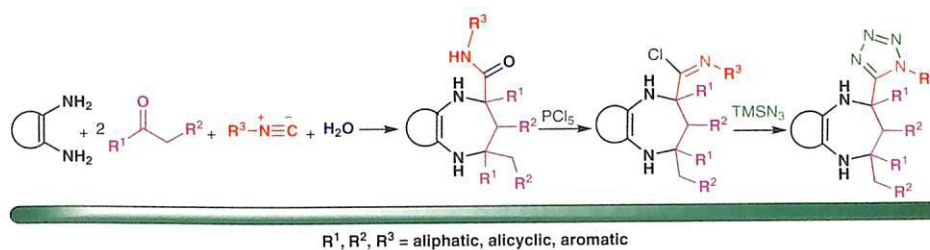
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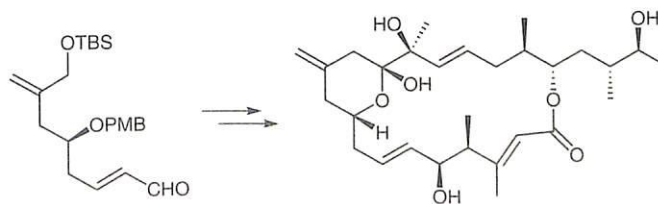
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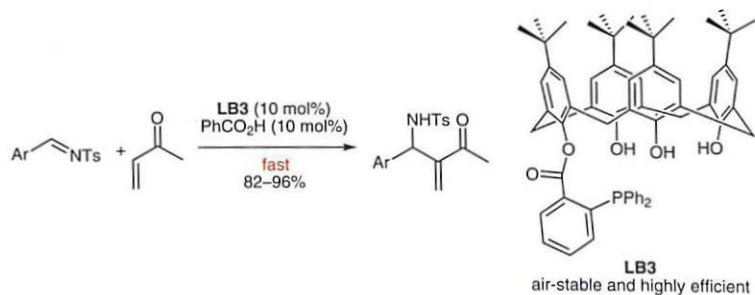
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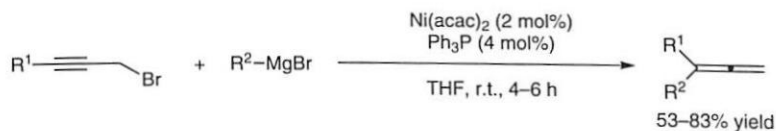
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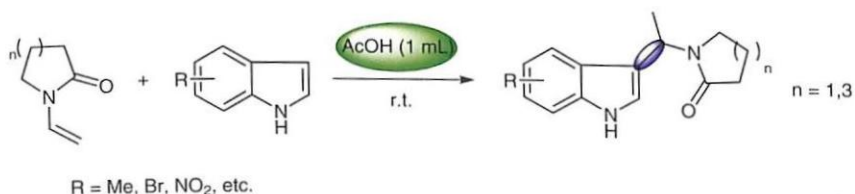
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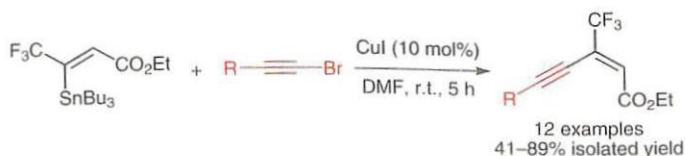
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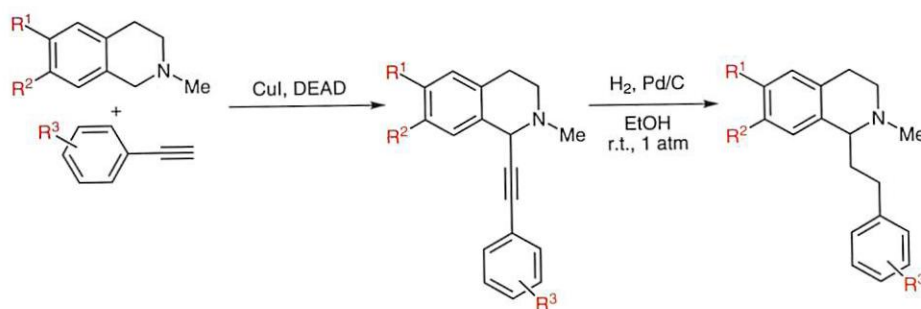
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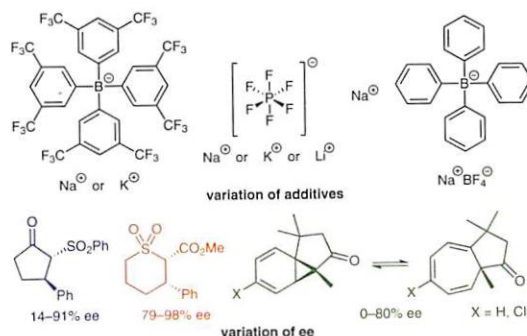
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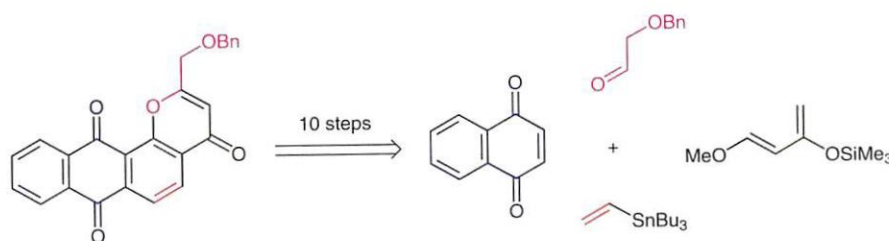
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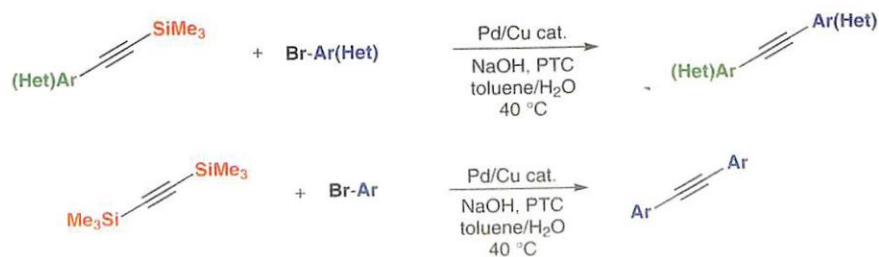
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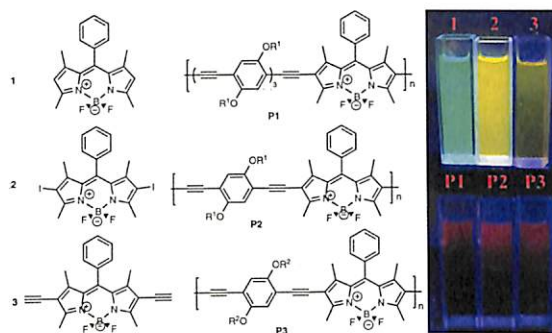
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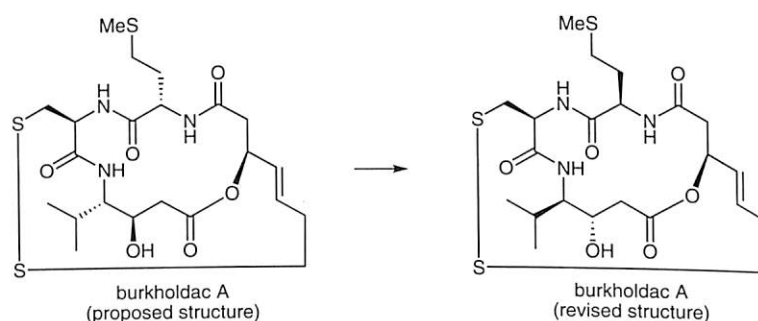
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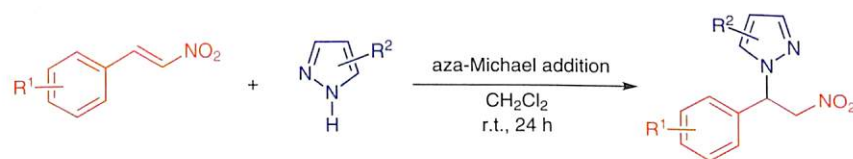
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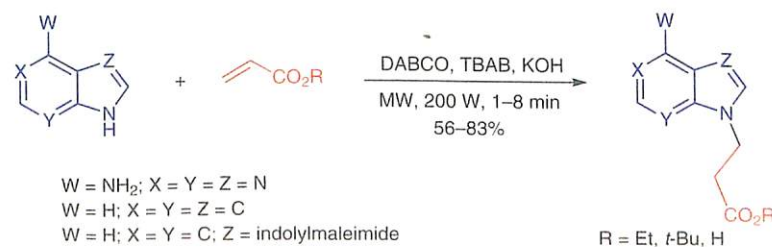
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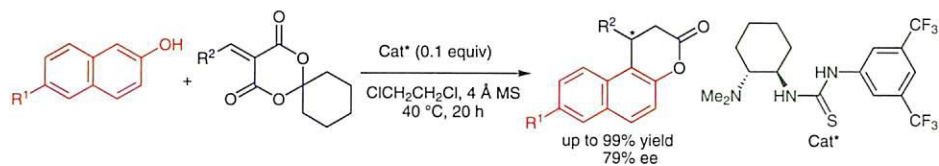
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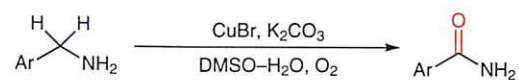
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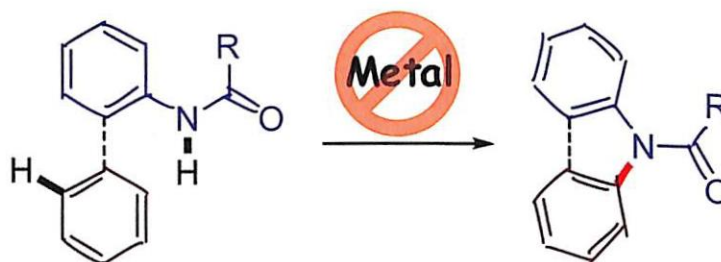
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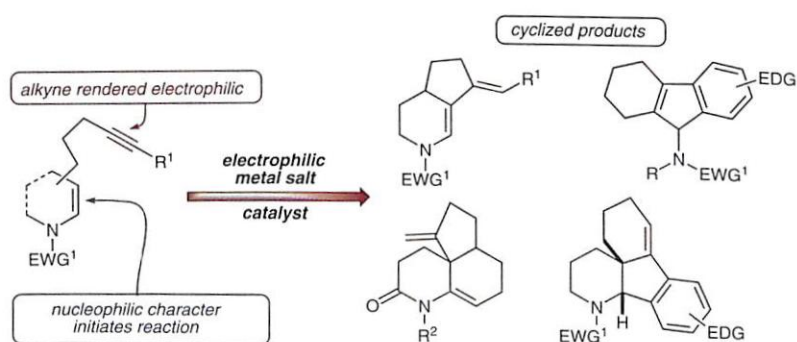
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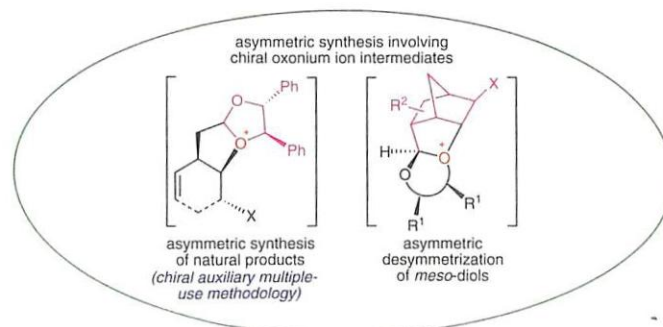
809 R. Samanta
A. P. Antonchick* **Metal-Free Oxidative C–H Bond Amination at Ambient Temperature**



814 G. R. Dake* **Enamides and Related Functional Groups as Nucleophilic Components in Ring-Forming Processes Catalyzed by Electrophilic Metal Salts**

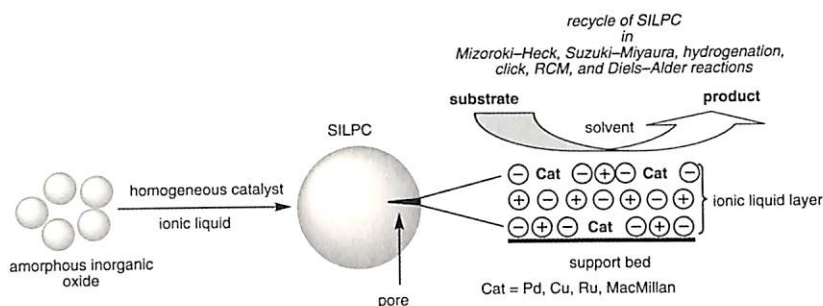


825 H. Fujioka* **Intramolecular Haloetherification of Ene- and Diene-Acetals: Asymmetric Synthesis Involving Chiral Oxonium Ion Intermediates**

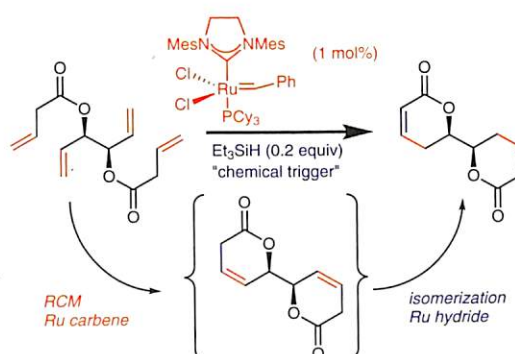


837 H. Hagiwara*

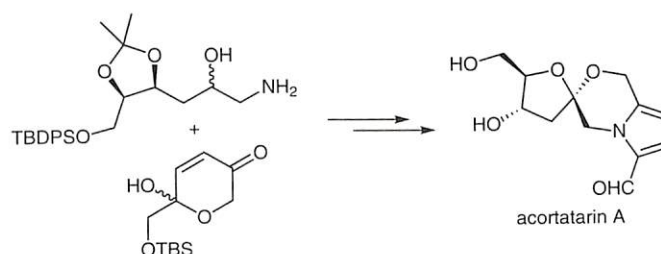
Development of Noncovalent Supported Ionic Liquid Phase Catalyst (SILPC) for Liquid-Phase Reaction as a Benign and Sustainable Protocol to Immobilize Homogeneous Catalyst

851 B. Schmidt*
O. Kunz

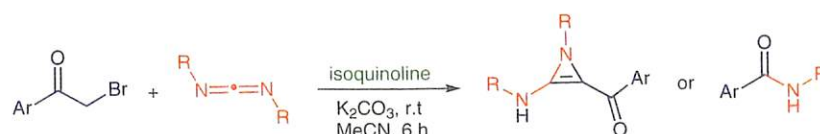
α,β -Unsaturated δ -Valerolactones through RCM-Isomerization Sequence

855 H. M. Geng
J. L-Y. Chen
D. P. Furkert
S. Jiang
M. A. Brimble*

A Convergent Synthesis of the 2-Formylpyrrole Spiroketal Natural Product Acortatarin A

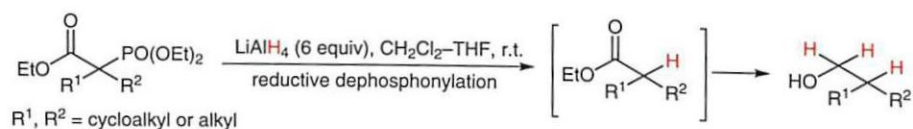
859 A. Alizadeh*
A. Rezvanian

Isoquinoline-Catalyzed Reaction of Phenacyl Bromide and *N,N*-Dialkylcarbodiimides: Novel Synthesis of Azirines



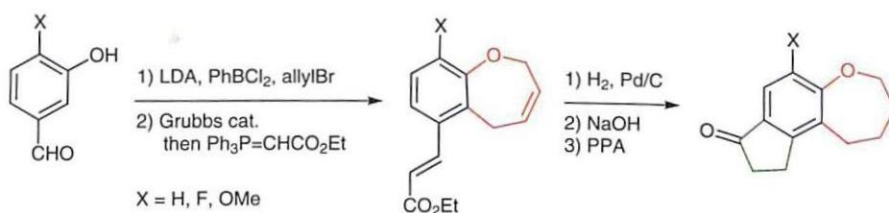
863 J.-L. Zhou*
J.-S. Bau
Y.-C. Shih

LiAlH₄-Induced Reductive Dephosphonylation of α,α -Dialkyl Triethyl β -Phosphonyl Esters: Mechanistic Study and Synthetic Application



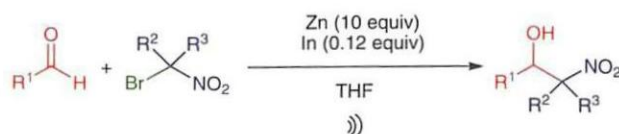
867 M.-Y. Chang*
N.-C. Lee

Synthesis of 1-Indanonyl Oxepanes



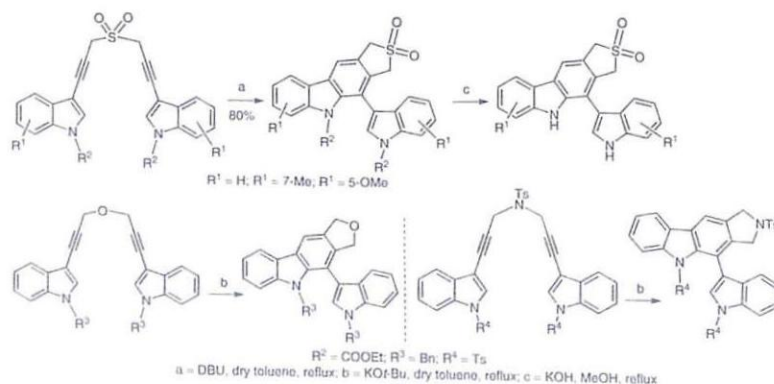
873 R. G. Soengas*
A. M. S. Silva*

Indium-Catalyzed Henry-Type Reaction of Aldehydes with Bromonitroalkanes



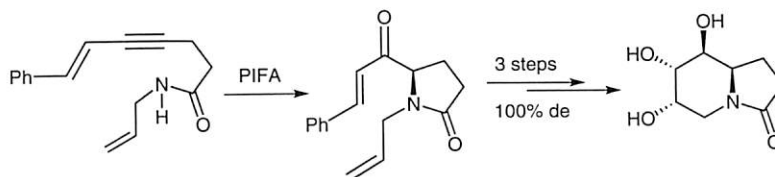
877 R. Mukherjee
A. Basak*

Synthesis of 1-Indol-3-yl-carbazoles via Garratt-Braverman Cyclization



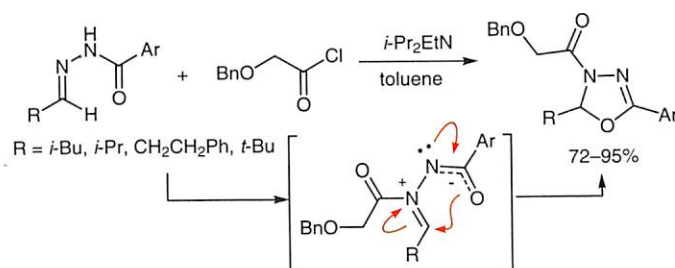
881 L. M. Pardo
I. Tellitu*
E. Domínguez*

Development of a New Nonsugar-Based Strategy for the Synthesis of the Hydroxylated Indolizidinone Skeleton



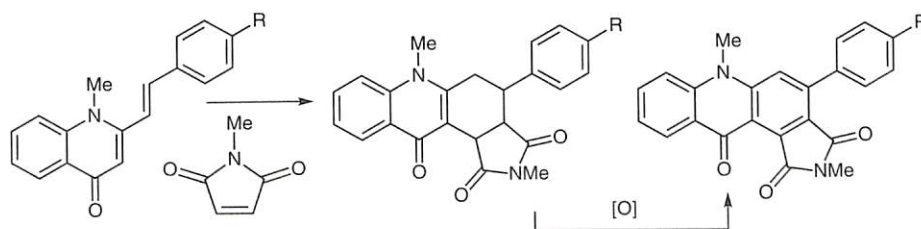
885 E. Marqués-López
E. Díez
E. Martín-Zamora
E. Álvarez
R. Fernández*
J. M. Lassaletta*

Studies on the Synthesis of 2-Alkyl-5-aryl-1,3,4-oxadiazolines from *N*-Acyldiazones



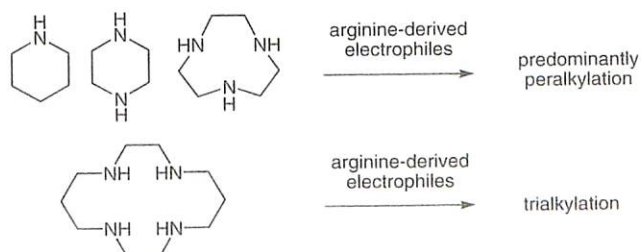
889 A. I. S. Almeida
V. L. M. Silva
A. M. S. Silva*
D. C. G. A. Pinto
J. A. S. Cavaleiro

Diels–Alder Reactions of (*E*)-2-Styrylquinolin-4(1*H*)-ones with *N*-Methylmaleimide: New Syntheses of Acridin-9(10*H*)-ones



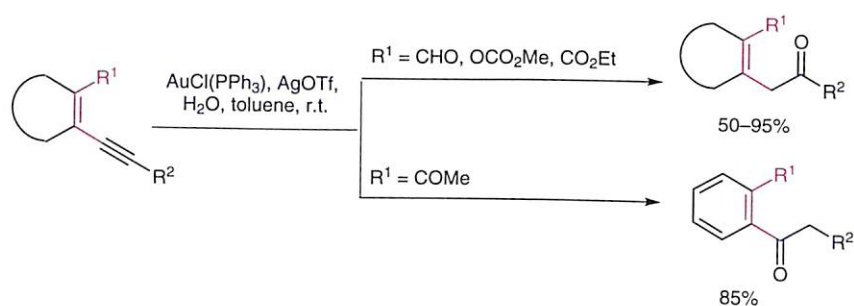
893 M. Suchý
R. H. E. Hudson*

Alkylation of Cyclic Amines with Arginine-Modified Electrophiles



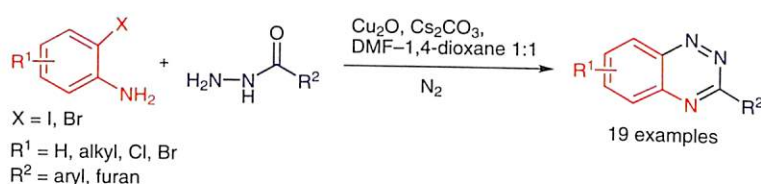
- 897 J. Jeong
D. Ray
C. H. Oh*

Cationic Gold-Catalyzed Regioselective Hydration of 1-Arylalkynes through Carbonyl Group Participation



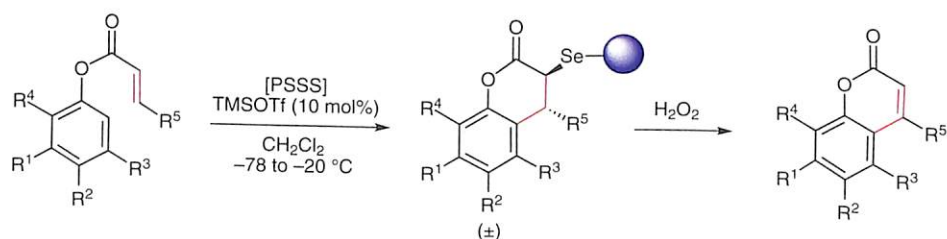
- 903 H. Guo
J. Liu
X. Wang
G. Huang*

Copper-Catalyzed Domino Reaction of 2-Haloanilines with Hydrazides: A New Route for the Synthesis of Benzo[e][1,2,4]triazine Derivatives



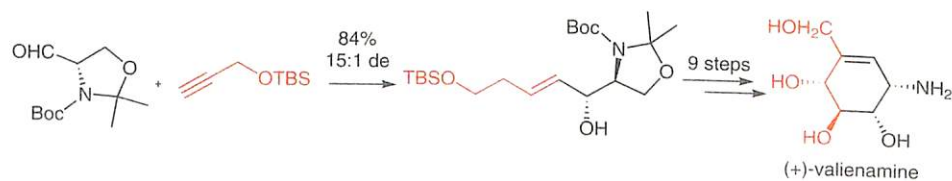
- 907 E. Tang*
W. Li
Z. Gao

A Convenient Solid-Phase Synthesis of Coumarins by TMSOTf-Catalyzed Intramolecular Seleno-Arylation of Tethered Alkenes



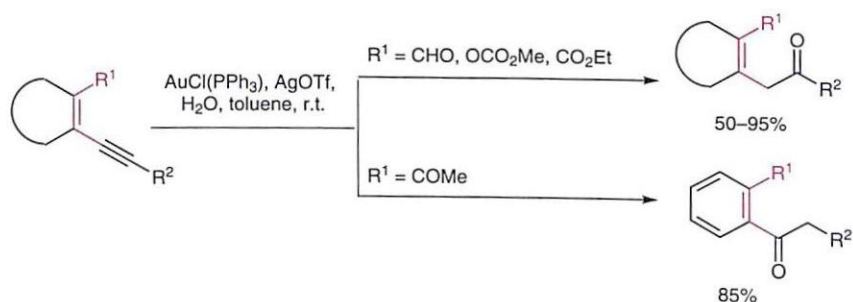
- 913 B. Zhou
Z. Luo
S. Lin
Y. Li*

A Concise Synthetic Approach to (+)-Valienamine Starting from Garner's Aldehyde



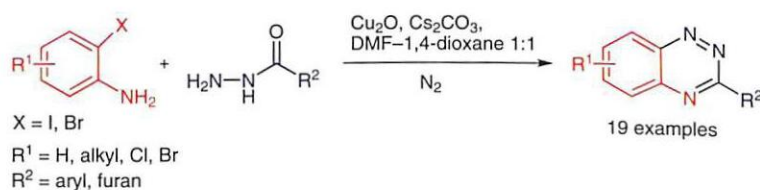
- 897 J. Jeong
D. Ray
C. H. Oh*

Cationic Gold-Catalyzed Regioselective Hydration of 1-Arylalkynes through Carbonyl Group Participation



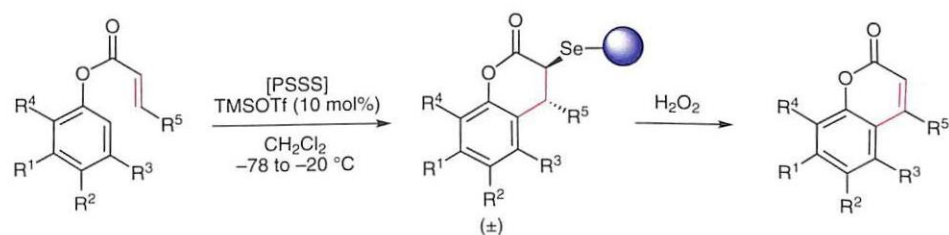
- 903 H. Guo
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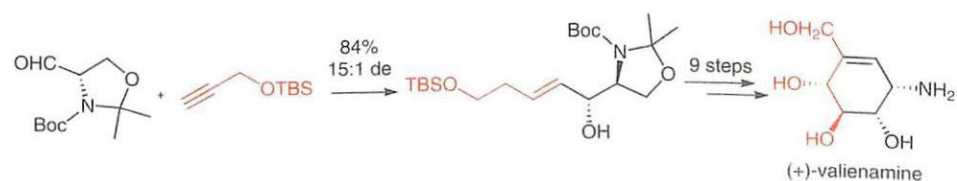
- 907 E. Tang*
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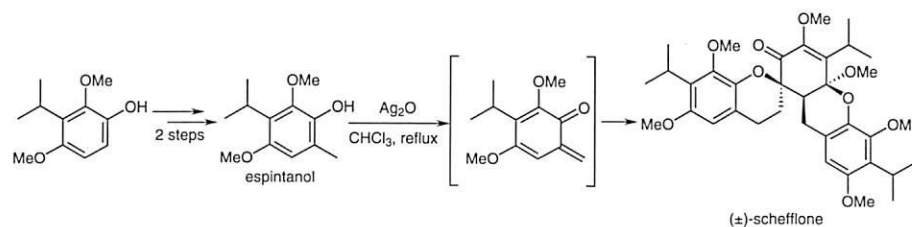
- 913 B. Zhou
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A Concise Synthetic Approach to (+)-Valienamine Starting from Garner's Aldehyde



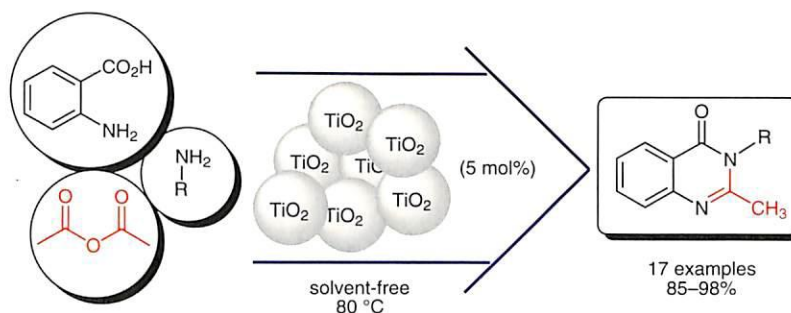
917 D. V. Osipov
V. A. Osyanin*
Y. N. Klimochkin

Easy Access to (±)-Schefflone and Espintanol



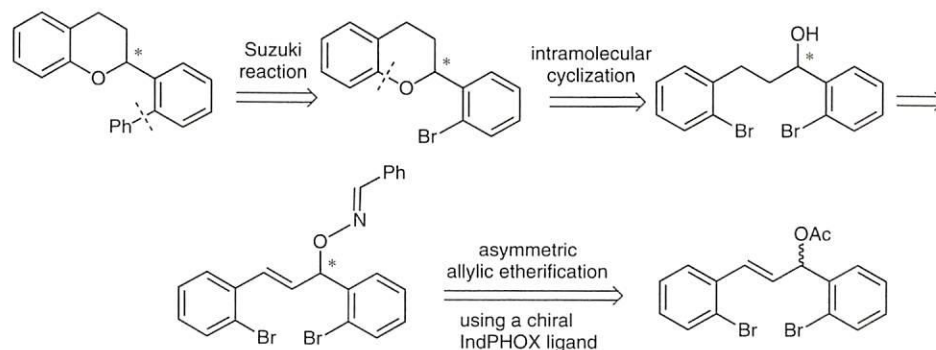
920 A. Khalafi-Nezhad*
S. M. Haghighi
A. Purkhosrow
F. Panahi*

An Efficient One-Pot Access to Quinazolinone Derivatives Using TiO_2 Nanoparticles as Catalyst: Synthesis and Vasorelaxant Activity Evaluation



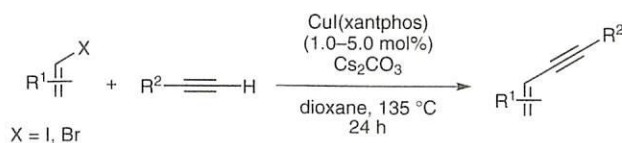
925 Y. Wang
R. Franzén*

Synthesis of 2-Aryl-Substituted Chromans by Intramolecular C–O Bond Formation



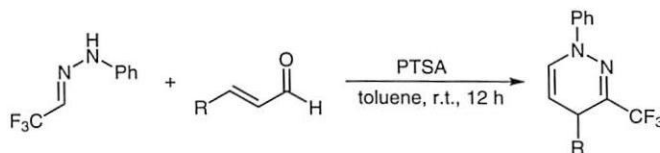
930 Y.-Y. Lin
Y.-J. Wang
J.-H. Cheng
C.-F. Lee*

Copper-Catalyzed Coupling of Alkynes with Alkenyl Halides



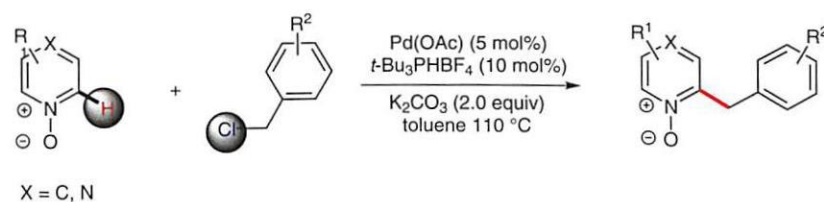
- 935 H. Xie
J. Zhu
Z. Chen
S. Li
Y. Wu*

Synthesis of 3-Trifluoromethyl-1,4-dihydropyridazines by the PTSA-Catalyzed Reaction of α,β -Unsaturated Aldehydes with (*E*)-1-Phenyl-2-(2,2,2-trifluoroethylidene)



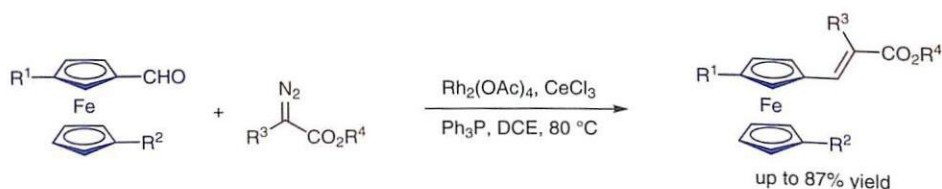
- 938 W. Mai*
J. Yuan
Z. Li
L. Yang
Y. Xiao
P. Mao
L. Qu

Palladium-Catalyzed Benzylic Cross-Couplings of Pyridine *N*-Oxides



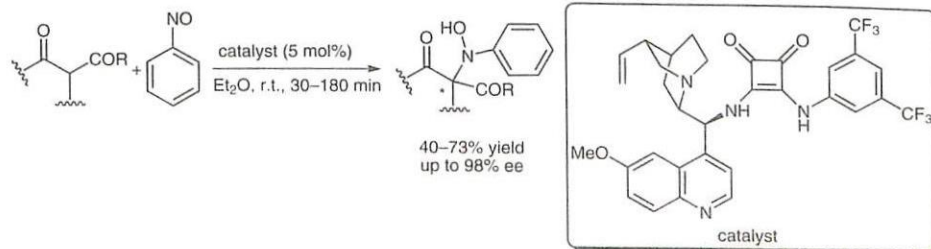
- 943 S. Chen
L. Zhang
Y. Du
B. Li*

$\text{Rh}_2(\text{OAc})_4/\text{CeCl}_3$ -Catalyzed Olefination of Carbonylferrocenes with α -Diazocarbonyl Compounds: A Convenient Synthesis of Alkenylferrocenes



- 948 H.-J. Yang
L. Dai
S.-Q. Yang
F.-E. Chen*

Direct Bifunctional Squaramide-Catalyzed Asymmetric *N*-Nitroso Aldol Reaction of Tertiary β -Carbonyl Esters



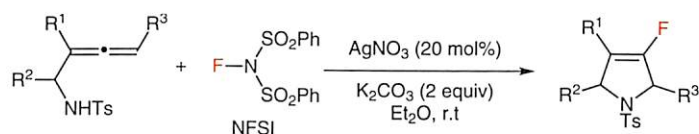
951 Compiled by **Phenylglyoxal**
 A. Akbari

Spotlights

953 Compiled by **(S)- α,α -Diphenylprolinol Trimethylsilyl Ether**
 A. Wróblewska

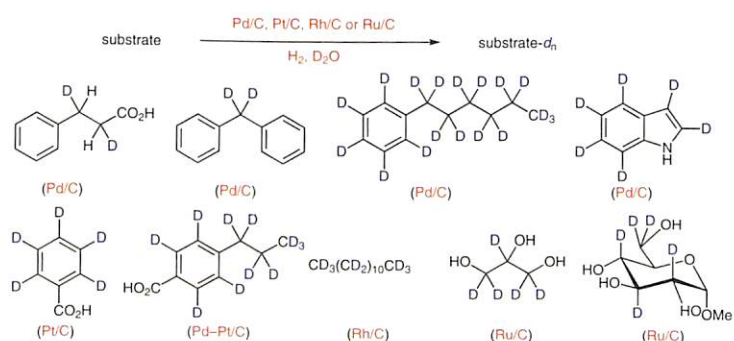
955 T. Xu
G. Liu*

Silver-Catalyzed Fluorination Reactions



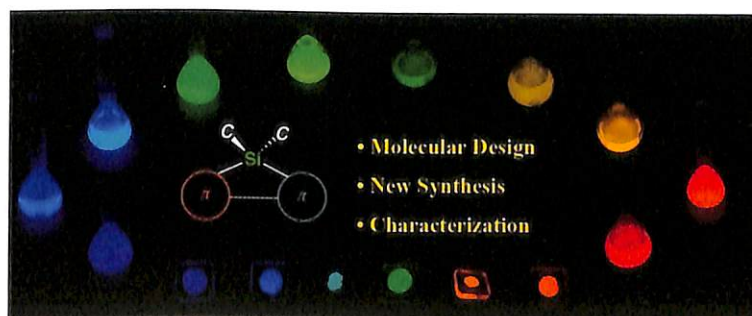
959 Y. Sawama
Y. Monguchi
H. Sajiki*

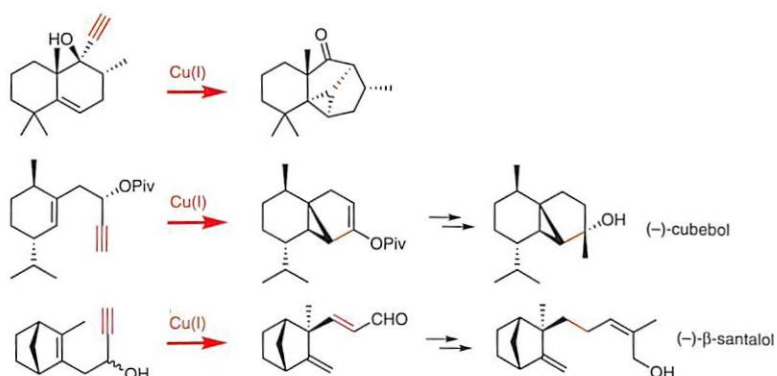
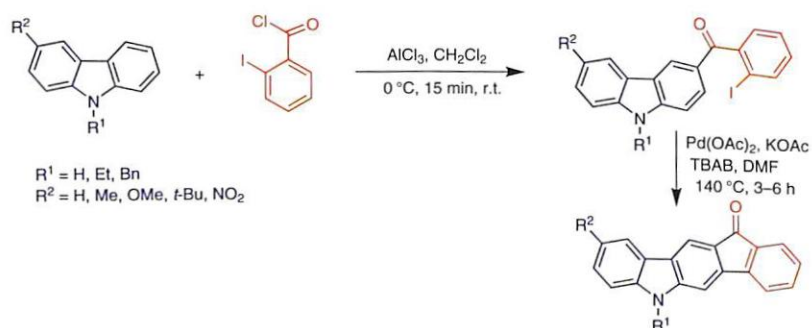
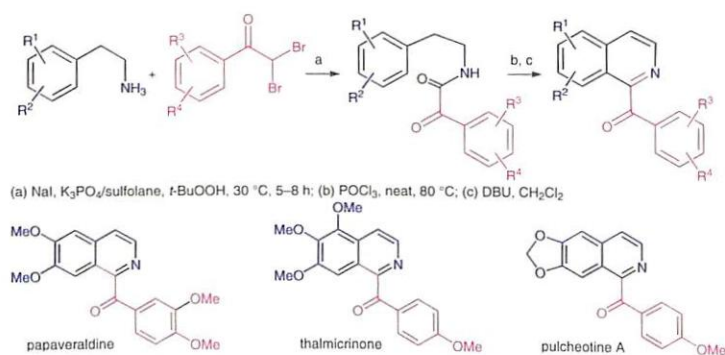
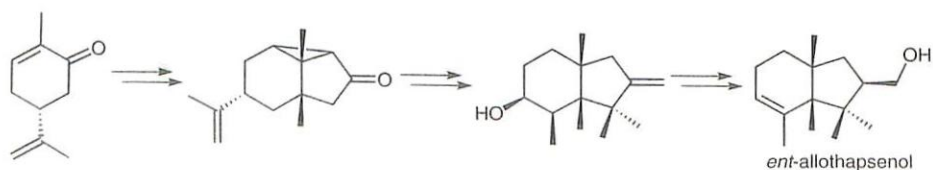
Efficient H-D Exchange Reactions Using Heterogeneous Platinum-Group Metal on Carbon-H₂-D₂O System



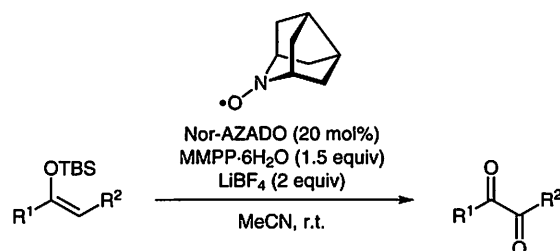
973 M. Shimizu*
T. Hiyama

Silicon-Bridged Biaryls: Molecular Design, New Synthesis, and Luminescence Control

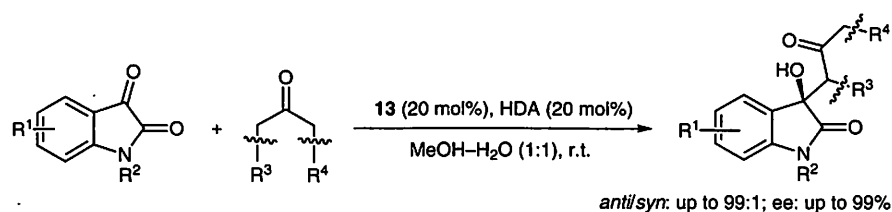


990 C. Fehr* **Copper-Catalyzed Cycloisomerizations of Enynols and Their Esters**1007 D. K. Sreenivas
R. Nagarajan* **Highly Regioselective Synthesis of Indenocarbazolones via Palladium-Catalyzed Intramolecular *ortho* Arylation**1013 R. Shankar
S. S. More
M. V. Madhubabu
N. Vembu
U. K. Syam Kumar* **Synthesis of Isoquinoline Alkaloids via Oxidative Amidation–Bischler–Napieralski Reaction**1021 A. Srikrishna*
K. Mahesh **Enantiospecific First Total Synthesis of *ent*-Allothapsenol**

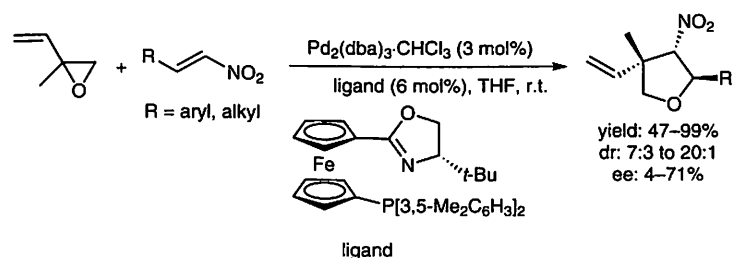
- 1025** M. Hayashi
M. Shibuya
Y. Iwabuchi*
- Catalytic Oxidation of Silyl Enol Ethers to 1,2-Diketones Employing Nitroxyl Radicals**



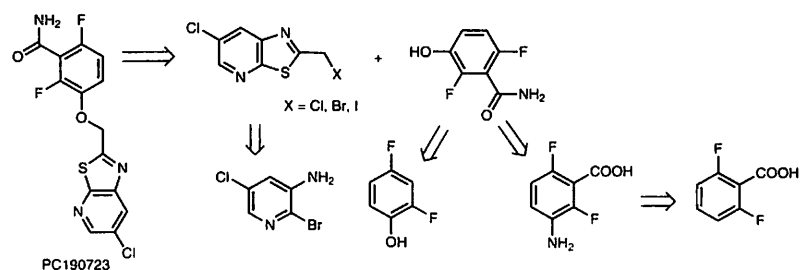
- 1031** Y. Liu
P. Gao
J. Wang
Q. Sun*
Z. Ge
R. Li*
- Primary 1,2-Diamine Catalysis (V): Efficient Asymmetric Aldol Reactions of Isatins with Cyclohexanone**



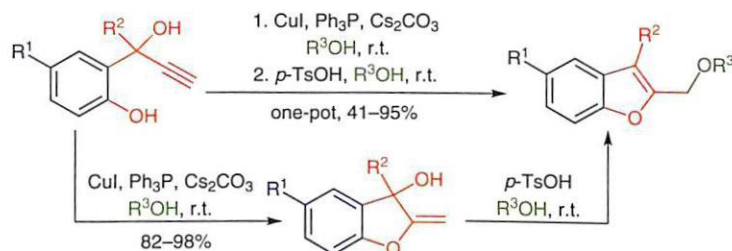
- 1035** W.-Q. Wu
C.-H. Ding
X.-L. Hou*
- Pd-Catalyzed Diastereo- and Enantioselective [3+2]-Cycloaddition Reaction of Vinyl Epoxide with Nitroalkenes**



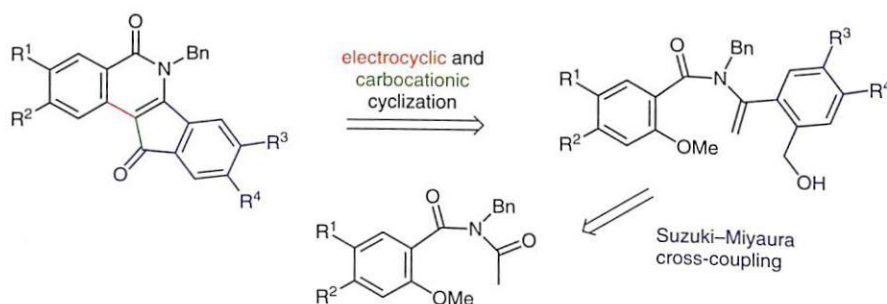
- 1039** Z.-C. Ding
W. Zhou
X. Ma*
- A Facile Approach to the Synthesis of 3-(6-Chloro-thiazolo[5,4-*b*]pyridin-2-ylmethoxy)-2,6-difluoro-benzamide (PC190723)**



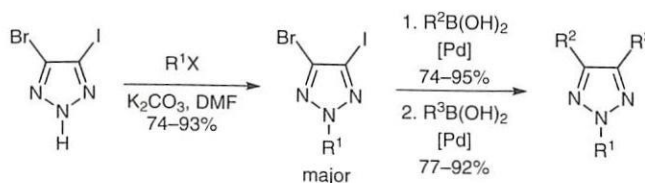
- 1043** X. Li
J. Xue
R. Chen
Y. Li*
- A New Copper(I)-Catalyzed Cycloetherification/Acid-Catalyzed Allylic Nucleophilic Substitution for One-Pot Synthesis of 2-Substituted Benzofurans**



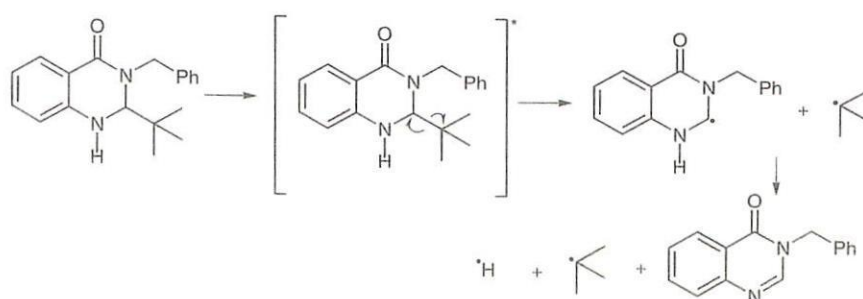
- 1047** M. Dubois
E. Deniau
A. Couture*
P. Grandclaudon
- Photochemically Induced Synthesis of the Topoisomerase I Inhibitors Indeno[1,2-*c*]isoquinoline-5,11-diones**



- 1052** L. Zhang*
Z. Li
X.-j. Wang
N. Yee
C. H. Senanayake
- Regioselective Synthesis of Polysubstituted *N*2-Alkyl/Aryl-1,2,3-Triazoles via 4-Bromo-5-iodo-1,2,3-triazole**

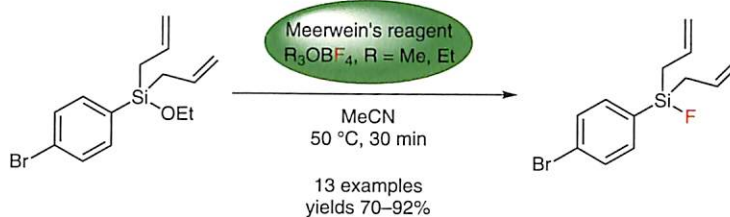


- 1057** F. A. Cabrera-Rivera
C. Ortíz-Nava
J. Escalante*
J. M. Hernández-Pérez
M. Hô
- Photoinduced Elimination in 2,3-Dihydro-2-*tert*-butyl-3-benzyl-4(1*H*)-quinazolinone: Theoretical Calculations and Radical Trapping Using TEMPO Derivatives**



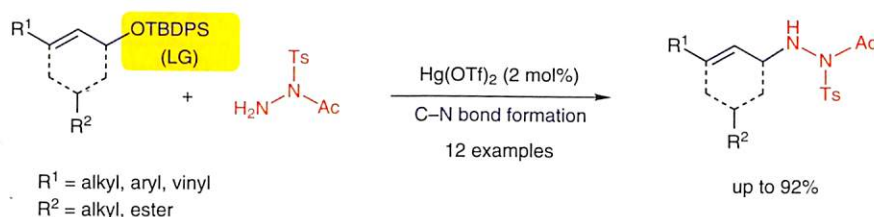
1064 Y. R. Jorapur
T. Shimada*

Meerwein's Reagent Mediated, Significantly Enhanced Nucleophilic Fluorination on Alkoxysilanes



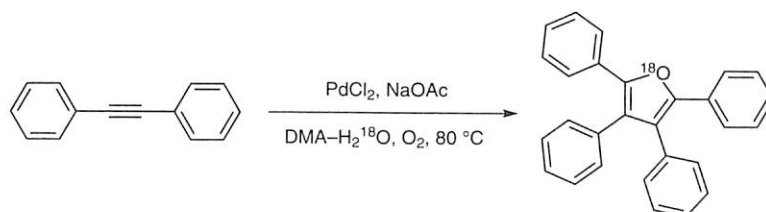
1069 H. Yamamoto*
N. Yamasaki
S. Yoshidome
I. Sasaki
K. Namba
H. Imagawa
M. Nishizawa

Carbon–Nitrogen Bond Formation between Allyl Silyl Ether and Hydrazide Promoted by Mercuric Triflate Catalyst



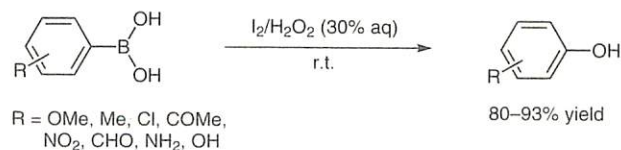
1074 L. Wang
J. Li
Y. Lv
G. Zhao
S. Gao*

Unexpected Base-Promoted Synthesis of Tetrasubstituted Furans via Palladium-Catalyzed Oxidation and Cyclization of Carbon–Carbon Triple Bond with Molecular Oxygen



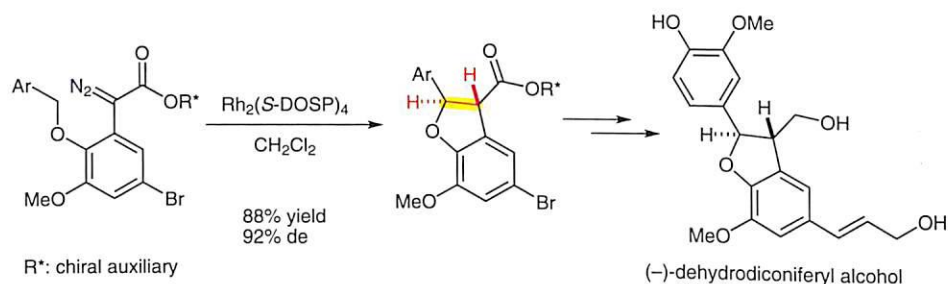
1079 A. Gogoi
U. Bora*

An Iodine-Promoted, Mild and Efficient Method for the Synthesis of Phenols from Arylboronic Acids



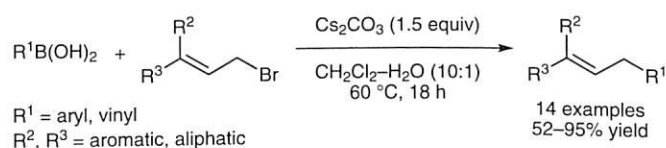
- 1082 S. Matsumoto
T. Asakawa
Y. Hamashima
T. Kan*

A Short-Step Asymmetric Synthesis of Dehydrodiconiferyl Alcohol via C–H Insertion Reaction



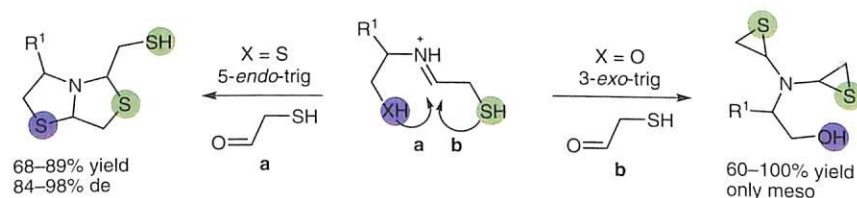
- 1085 M. Ueda*
K. Nishimura
R. Kashima
I. Ryu*

A Transition-Metal-Free Cross-Coupling Reaction of Allylic Bromides with Aryl- and Vinylboronic Acids



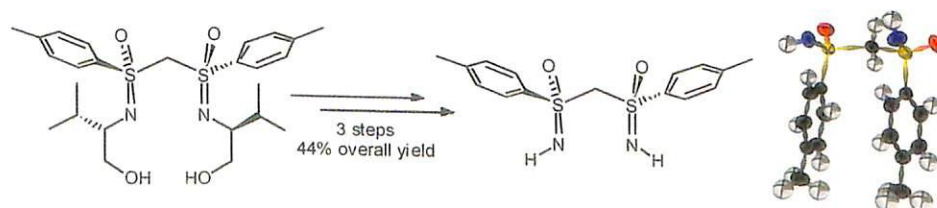
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Imine Domino Reactions Generate Novel Scaffolds: Fused Bisthiazolidines or Bisthiiranes



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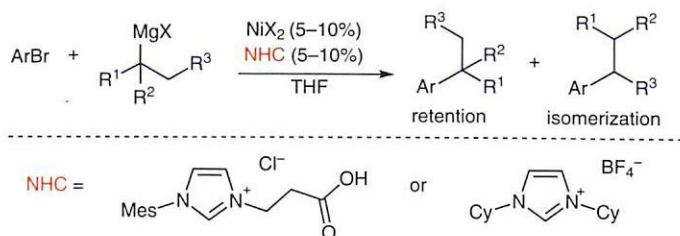


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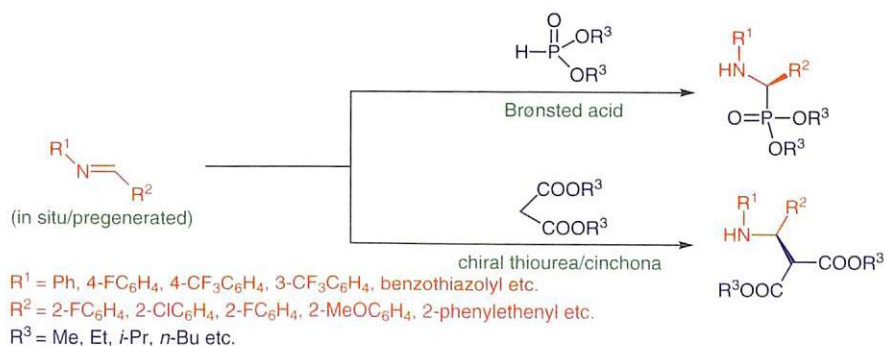
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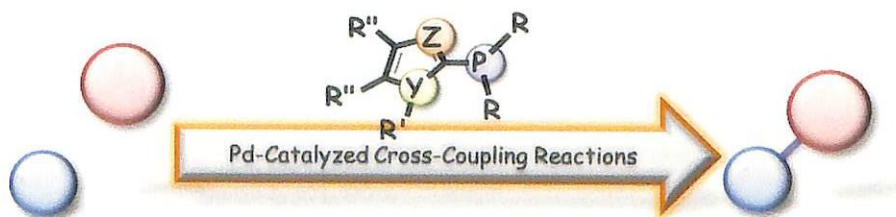
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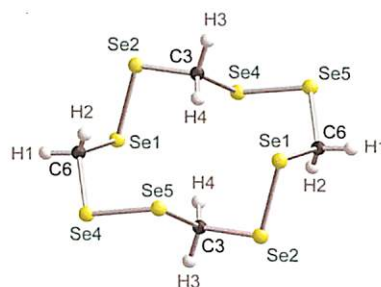
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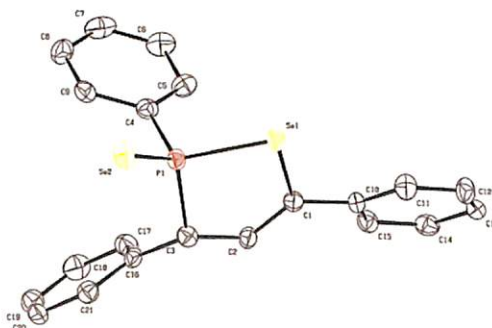
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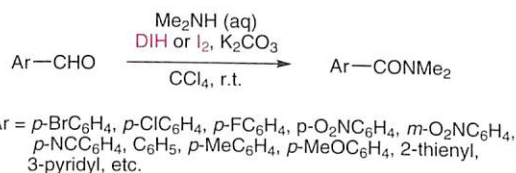
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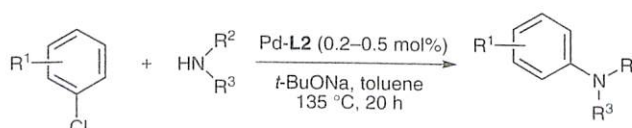
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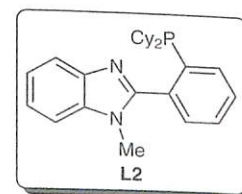
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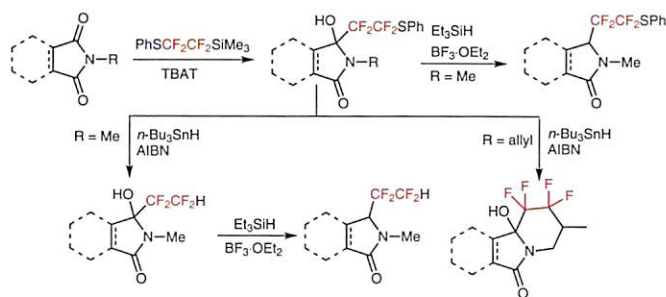


R¹ = methyl, methoxy, keto, ester, etc.
R² and R³ = benzyl, phenyl, hexyl, etc.



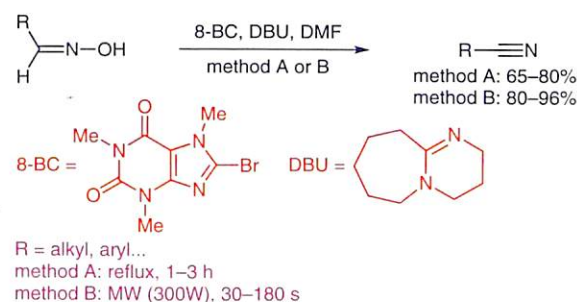
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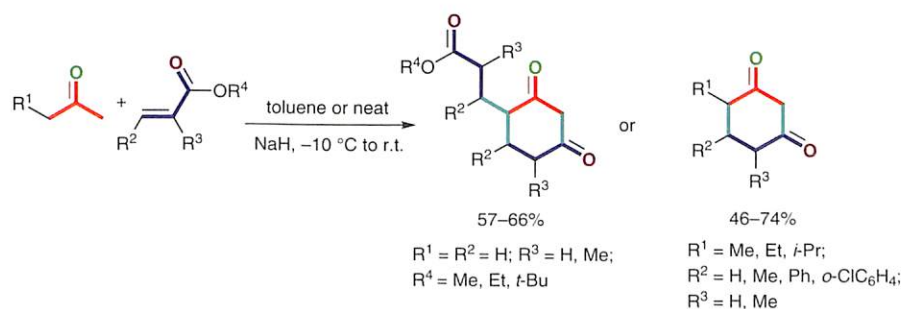
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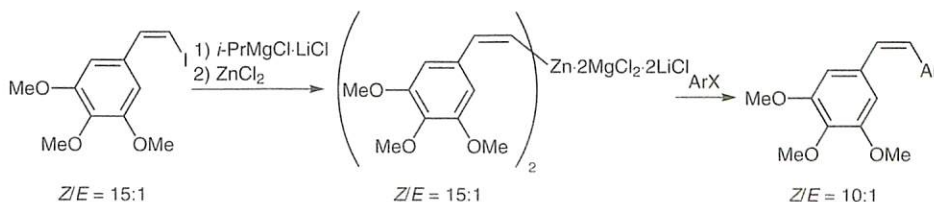
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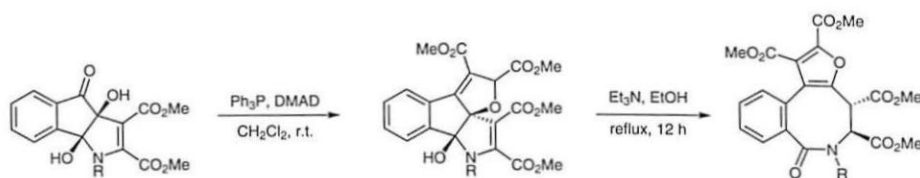
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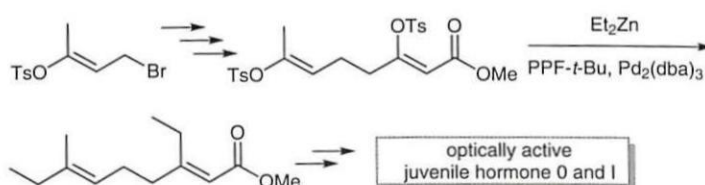
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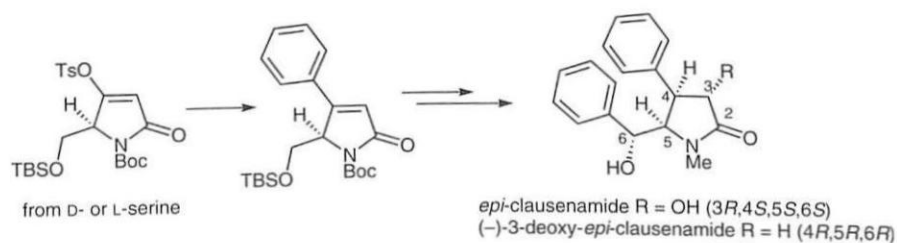
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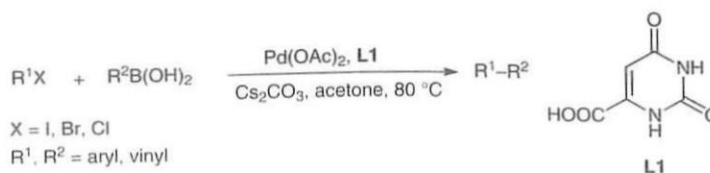
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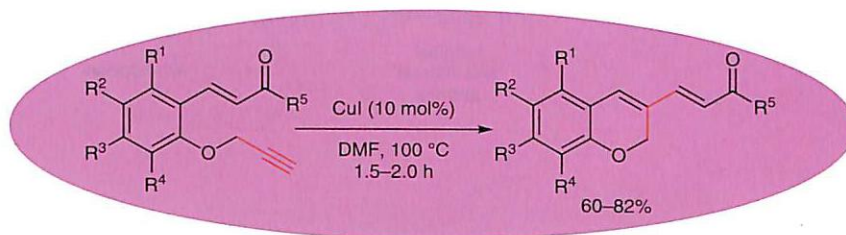
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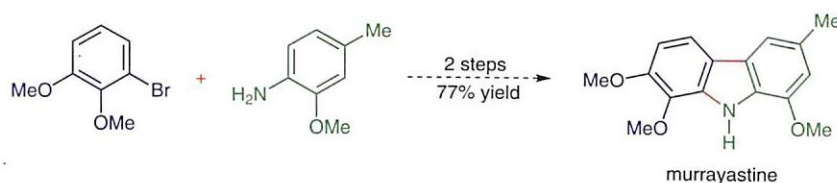
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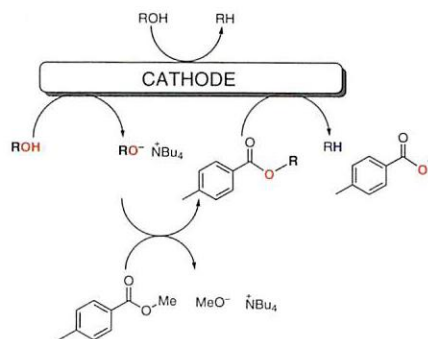
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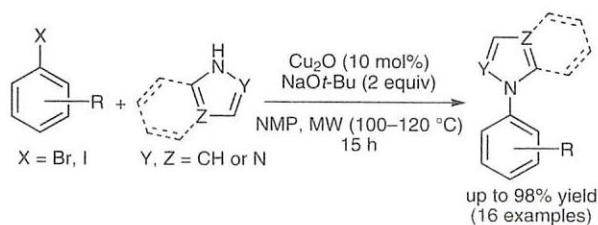
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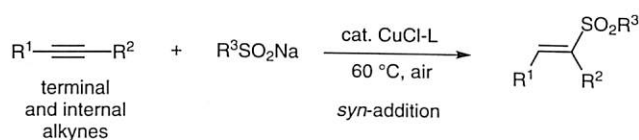
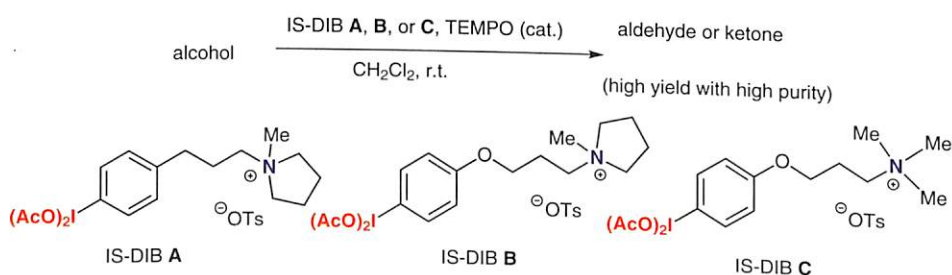
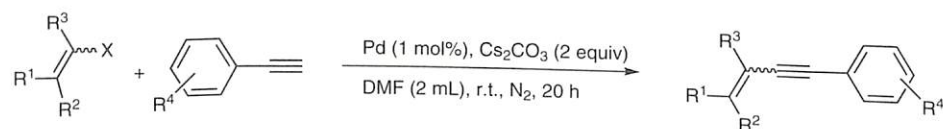


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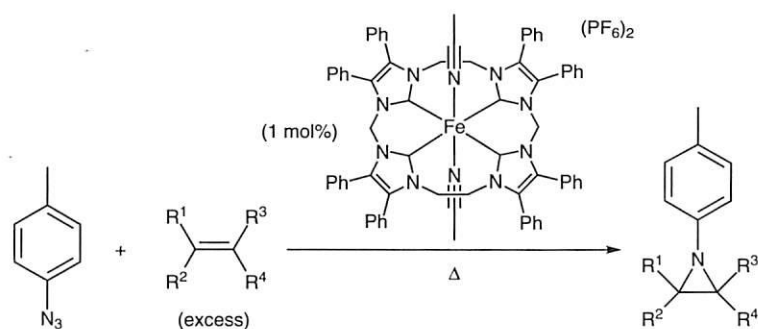
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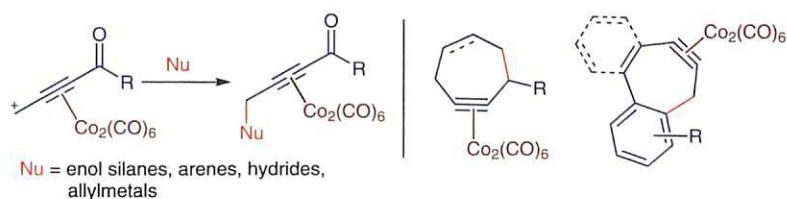
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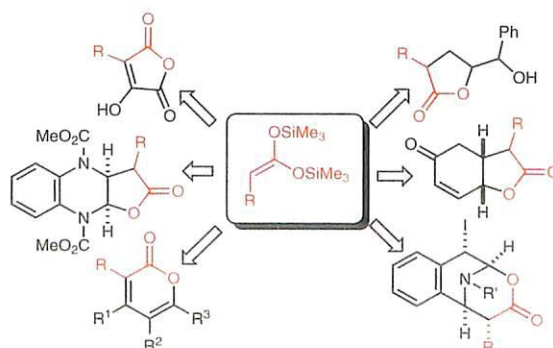
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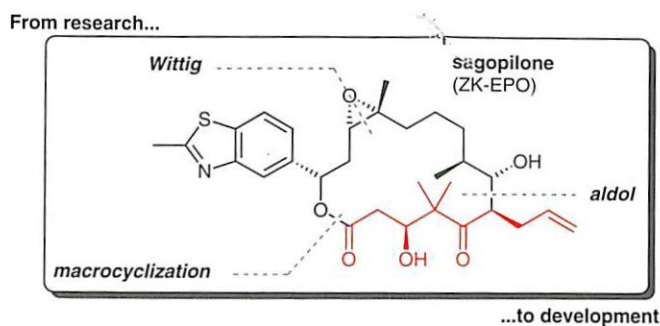
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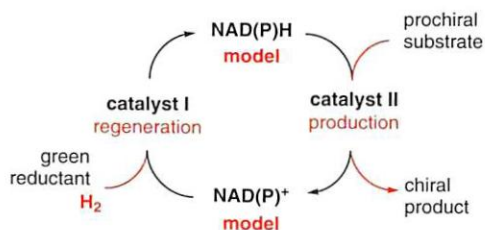
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Asymmetric Total Synthesis of the Epothilone Sagopilone – From Research to Development



- 1300 W. Du
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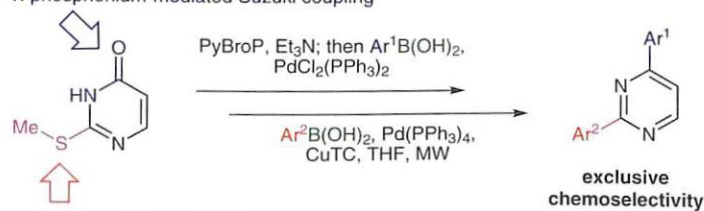
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A General Regioselective Synthesis of 2,4-Diarylpyrimidines from 2-Thiouracil through Two Orthogonal Cross-Coupling Reactions

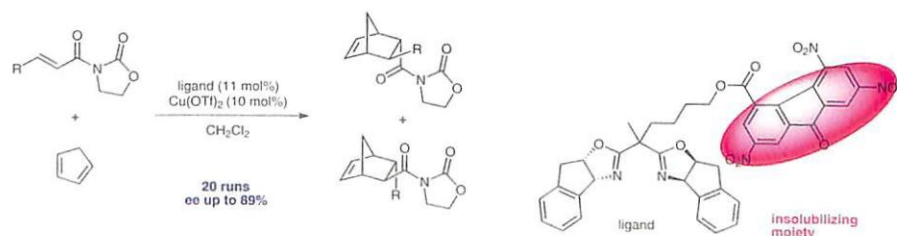
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2. Liebeskind–Srogl coupling

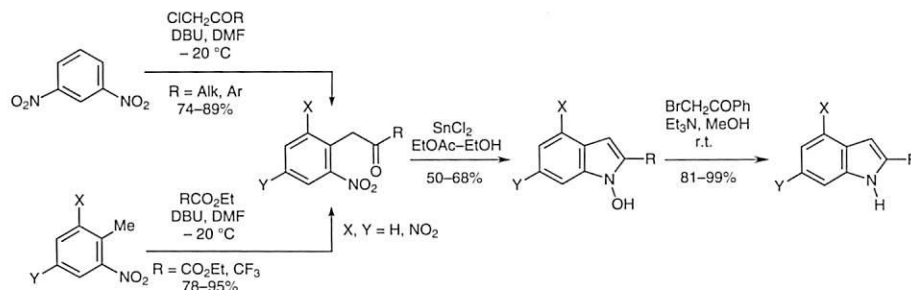
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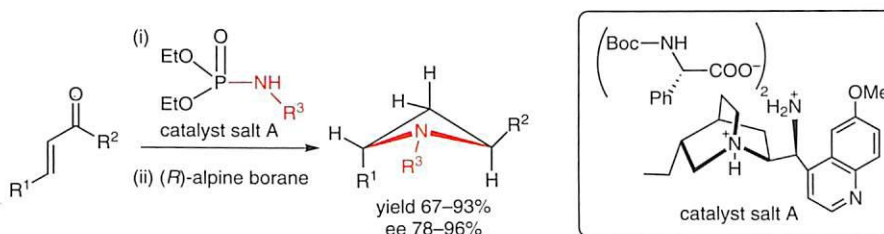
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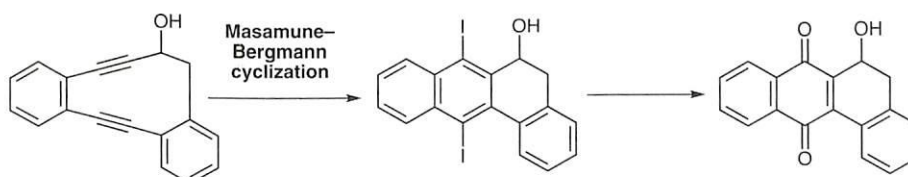
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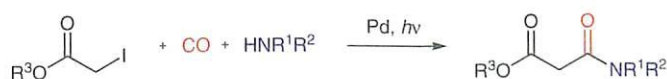
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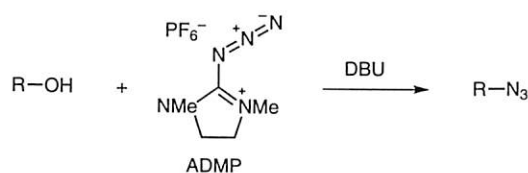
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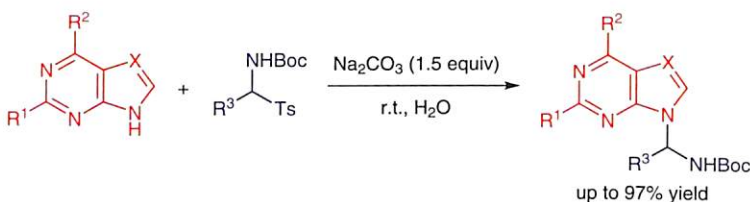
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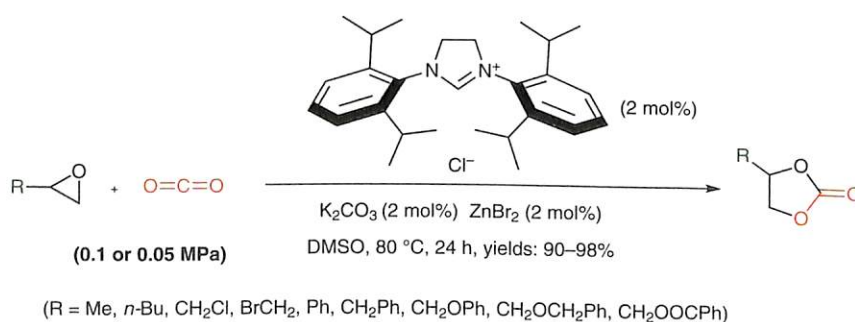
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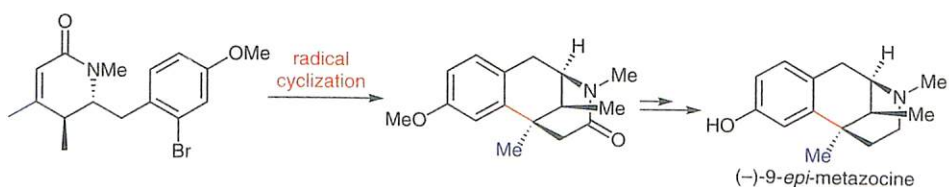
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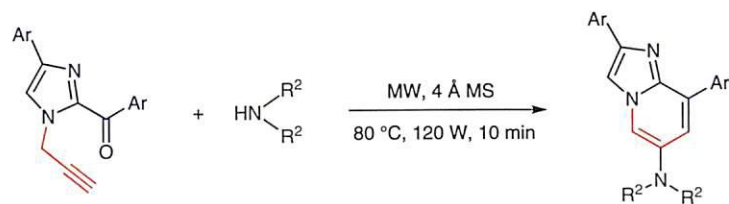
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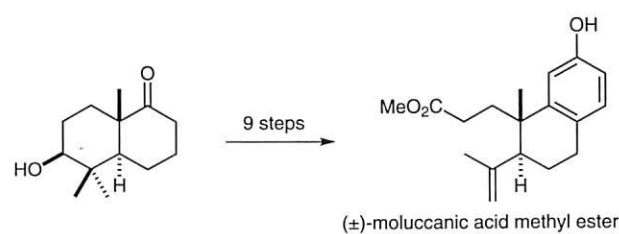
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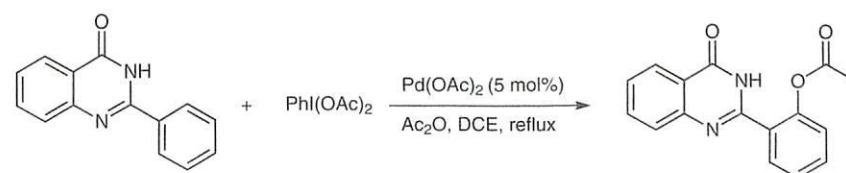
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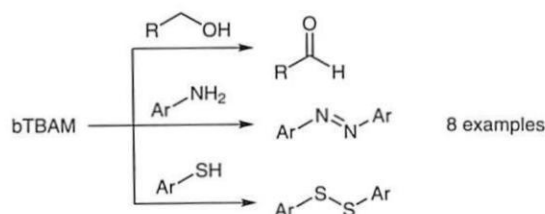


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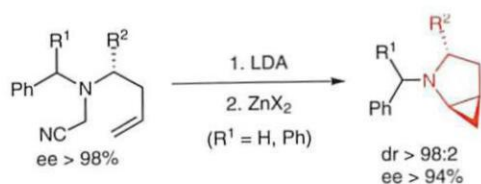
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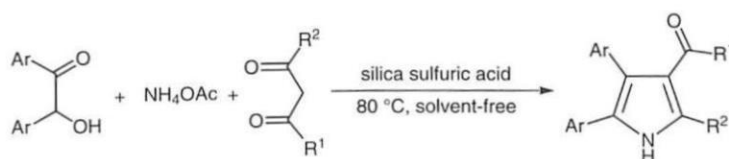
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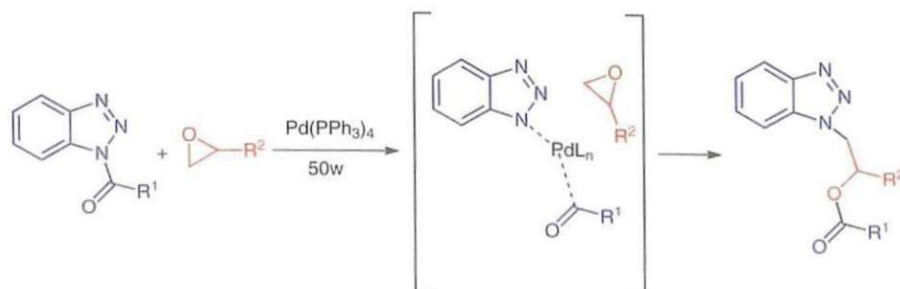
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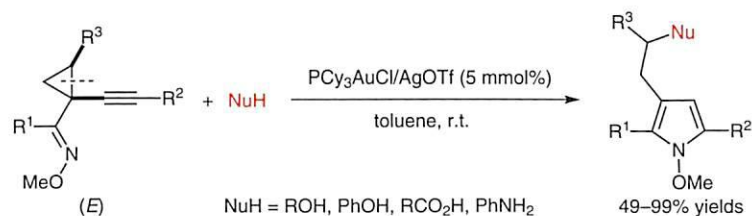


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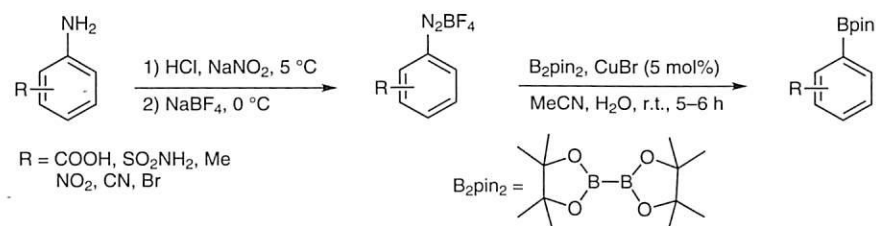
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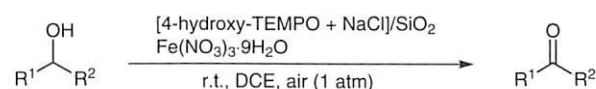
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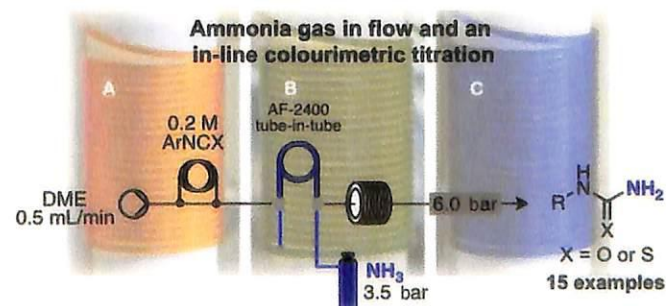
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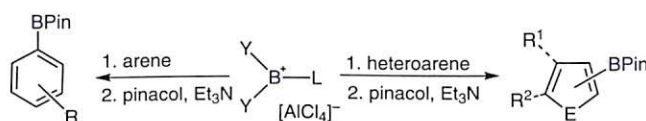
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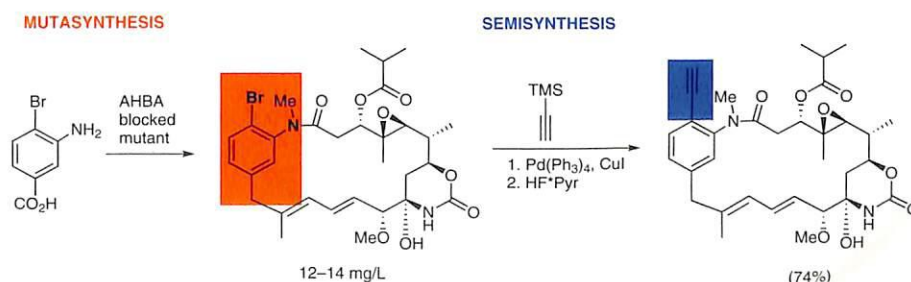
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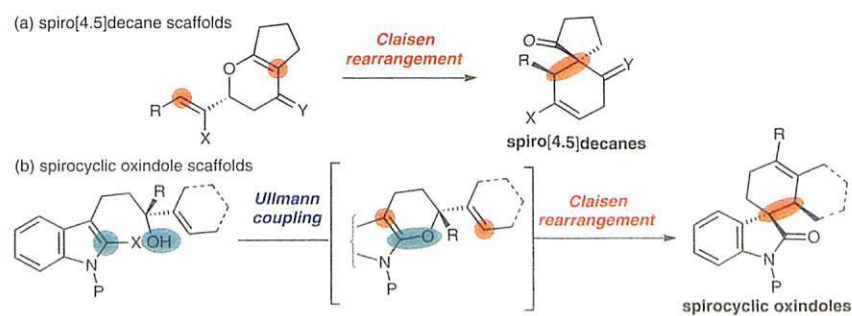
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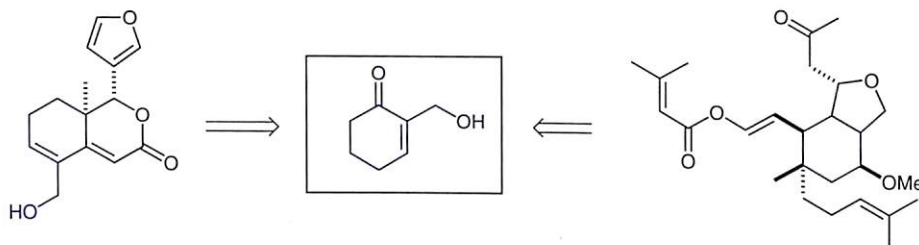
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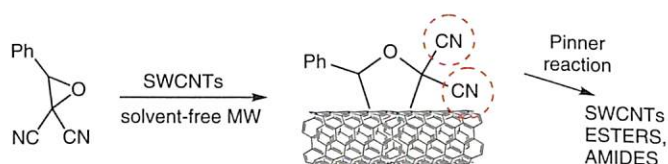
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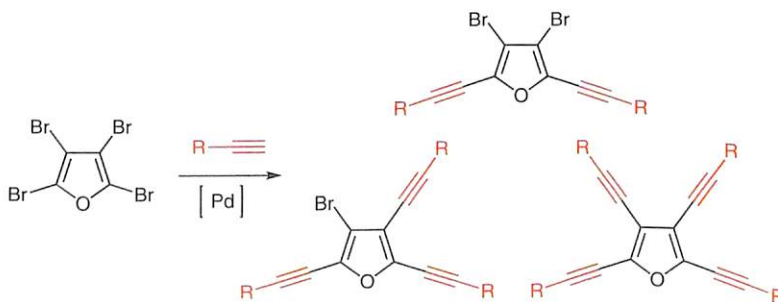
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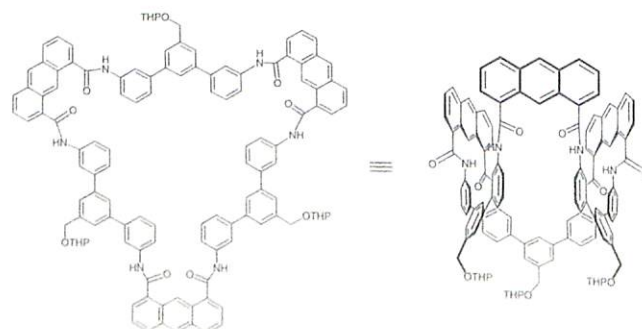
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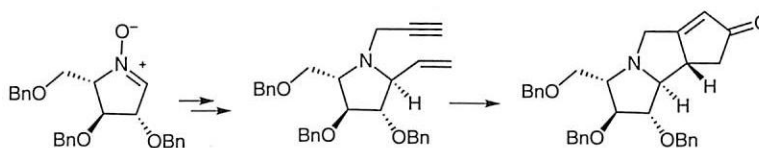
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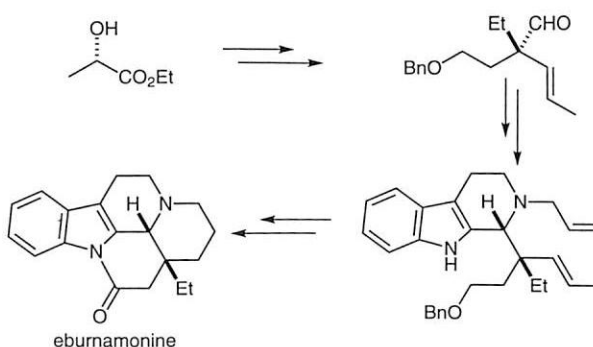
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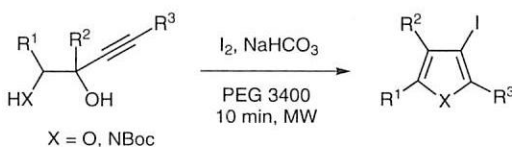
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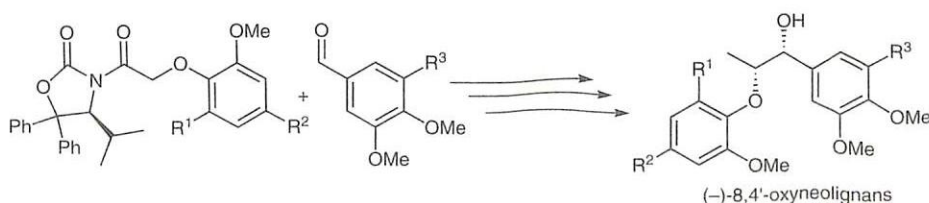
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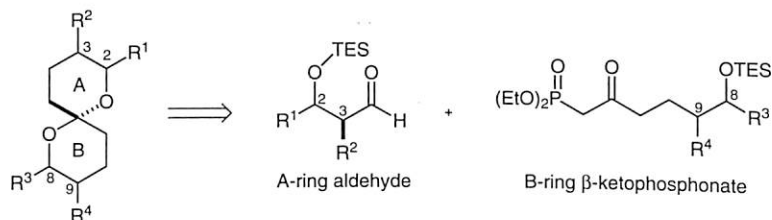
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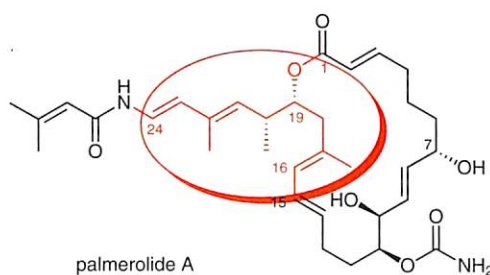
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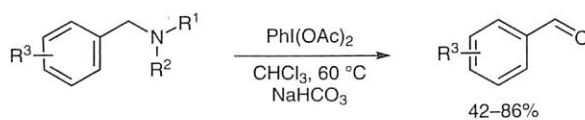
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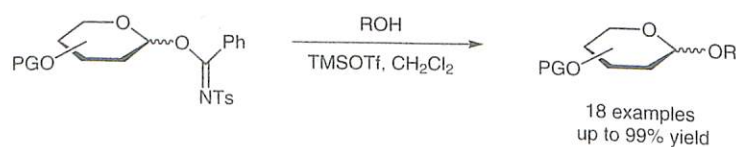
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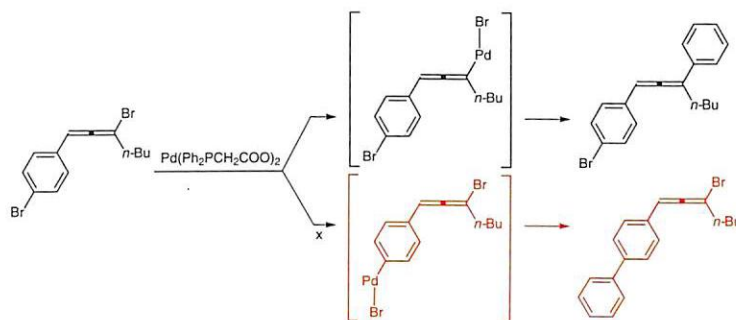
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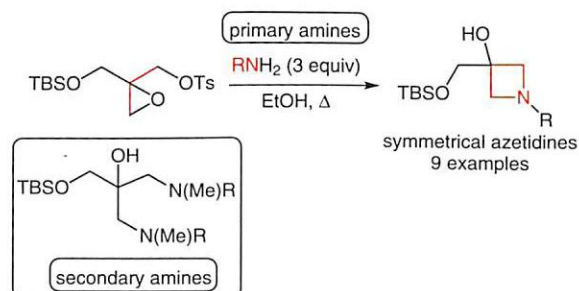
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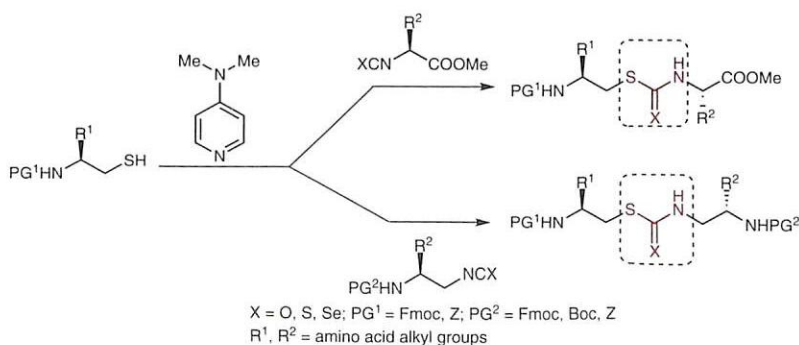
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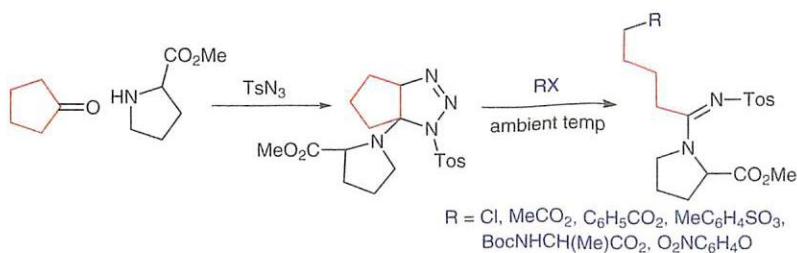
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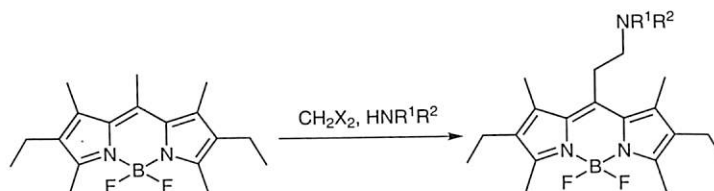


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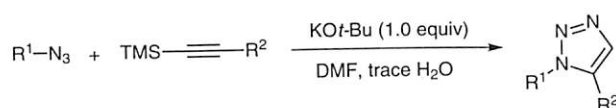
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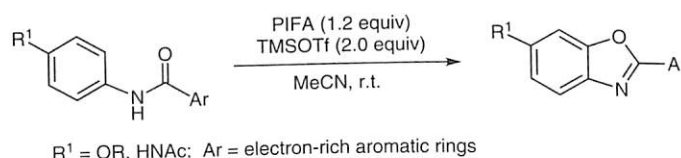
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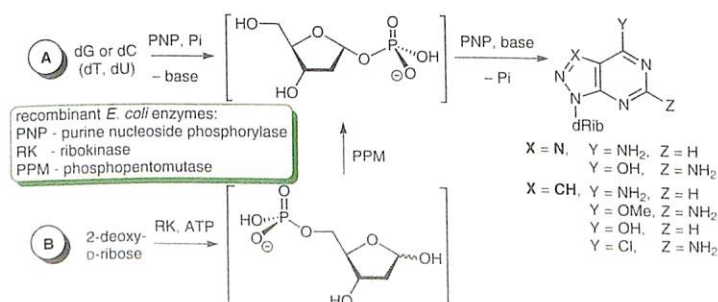
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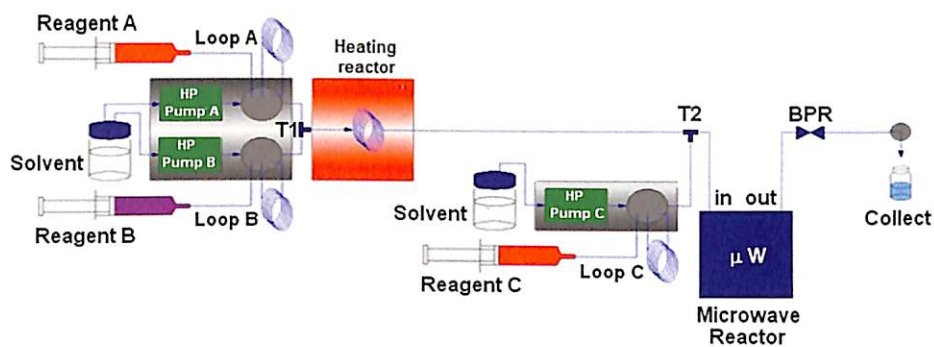
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Magnetically Separable Cu-Carboxylate MOF Catalyst for the Henry Reaction



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B.-L. Li

Azidotrimethylsilane

1556 Compiled by
M. Seyyedhamzeh

2,2,6-Trimethyl-4*H*-1,3-dioxin-4-one

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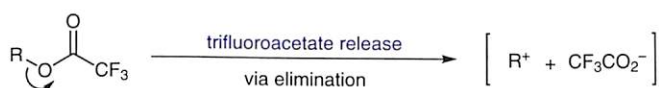
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Cleaving Carbon–Carbon Bonds by the Release of Trifluoroacetate to Remodel Molecules and Assemble Fluorinated Structures

1) Trifluoroacetate release to generate cations via elimination

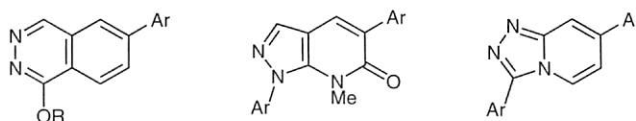


2) Trifluoroacetate release to generate anions via fragmentation



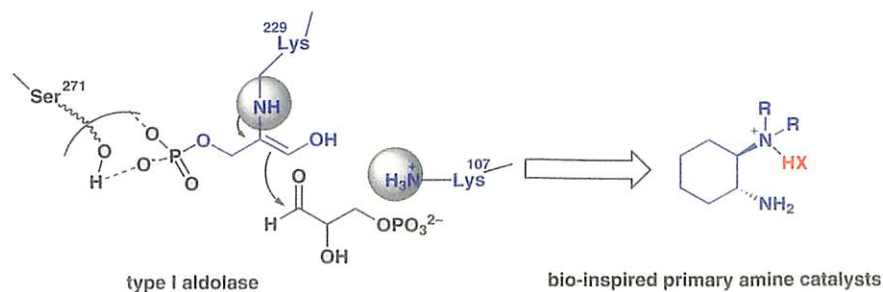
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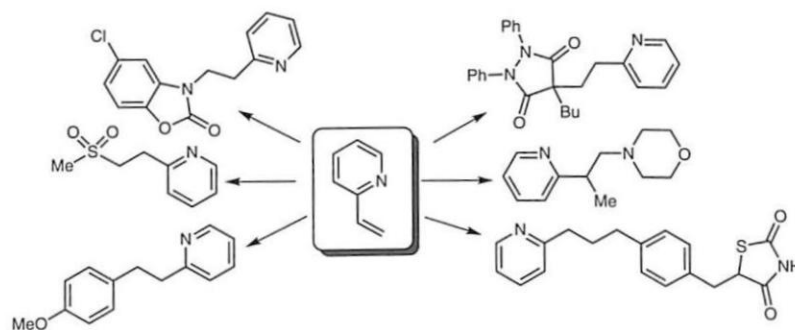
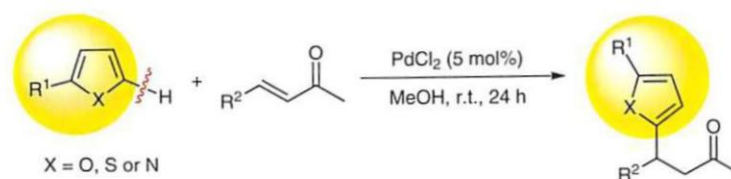
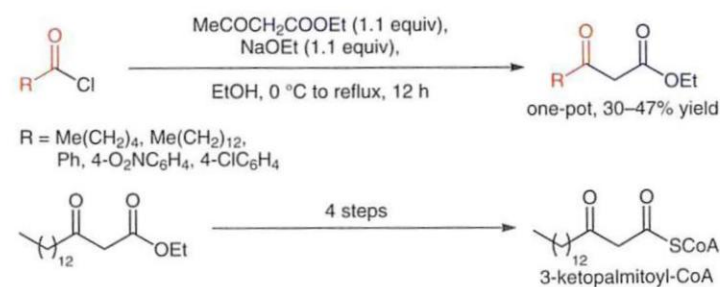
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Bio-inspired Chiral Primary Amine Catalysis

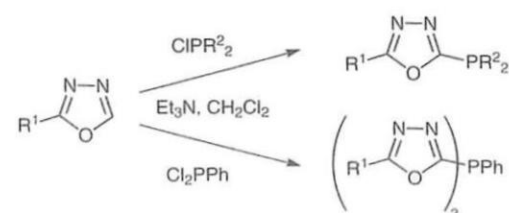


1590 D. A. Klumpp*

Conjugate Additions to Vinyl-Substituted Aromatic N-Heterocycles

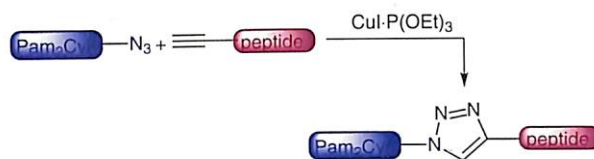
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Metal-Free Phosphorylations of 1,3,4-Oxadiazoles and Related Heterocycles



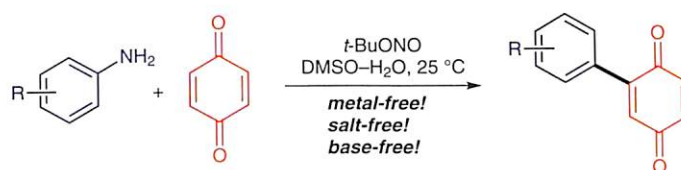
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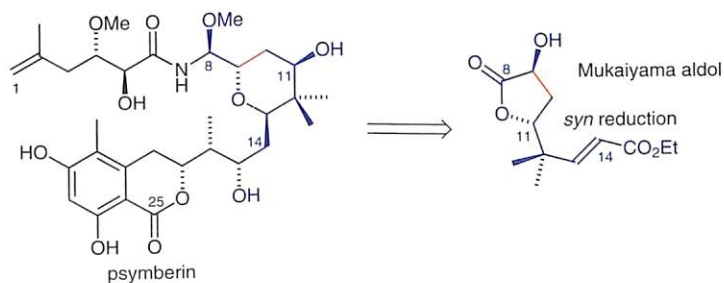
- 1621 M. Lamblin*
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F.-X. Felpin*

Direct C–H Arylation of Quinones with Anilines



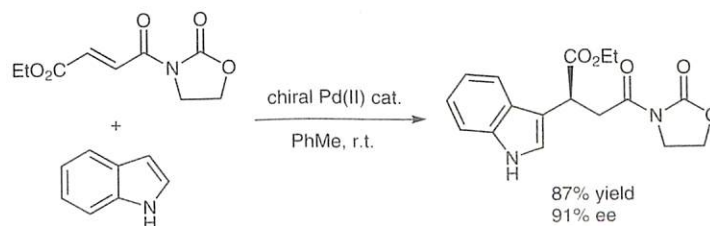
- 1625 M. Bielitz
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An Enantioselective Mukaiyama Aldol Reaction as the Key Step towards the Tetrahydropyran Core of Psymberin via a γ -Butyrolactone Intermediate

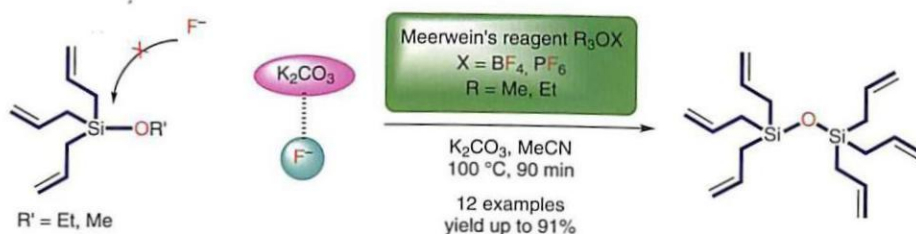


- 1629 H. J. Lee
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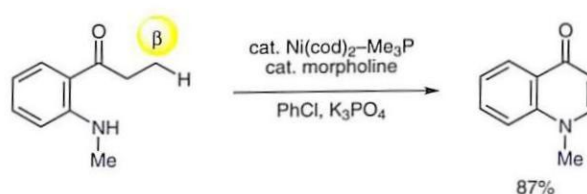
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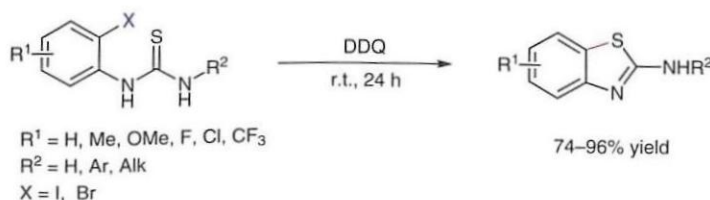
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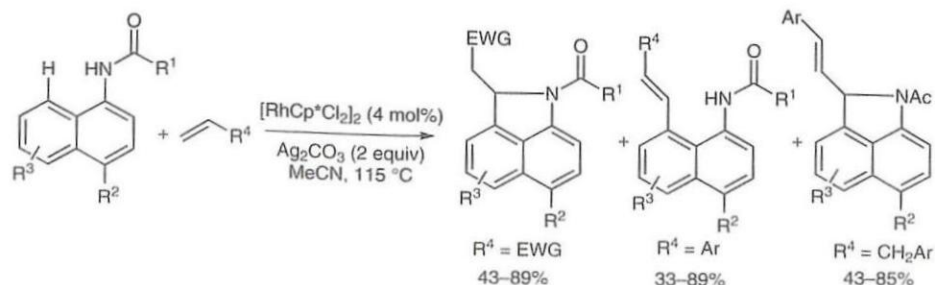
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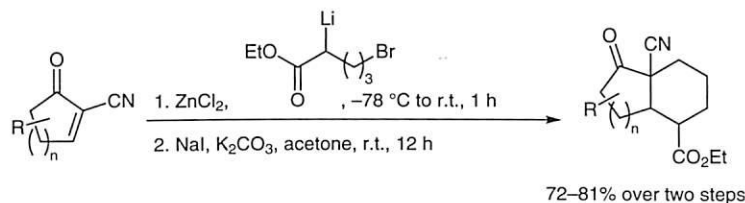
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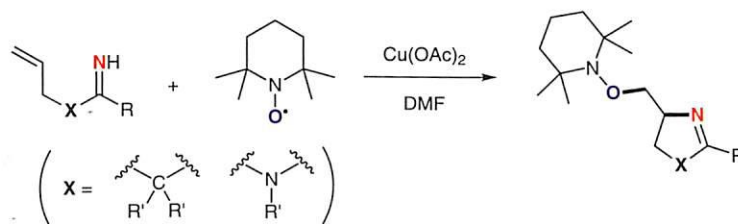
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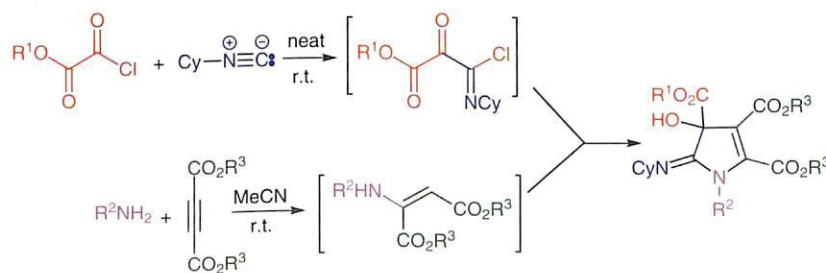
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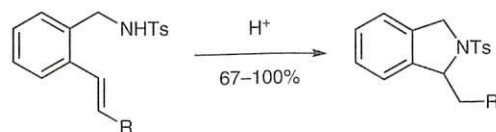
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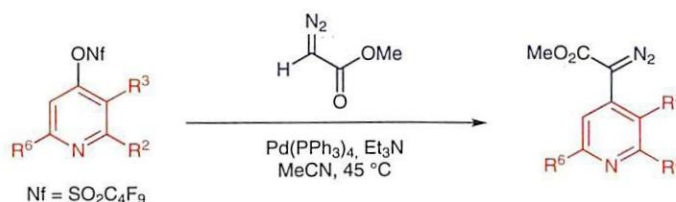


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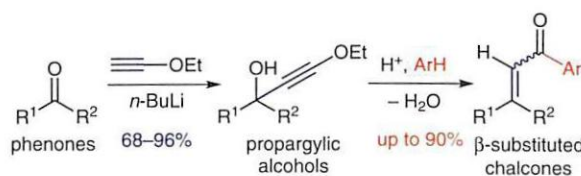
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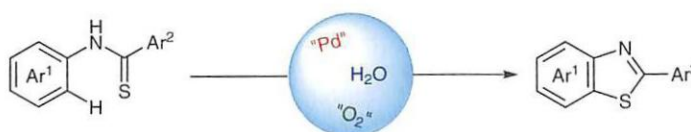
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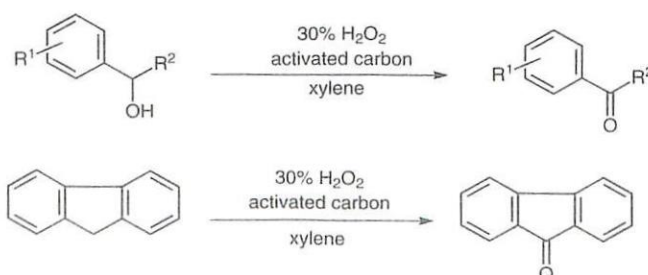
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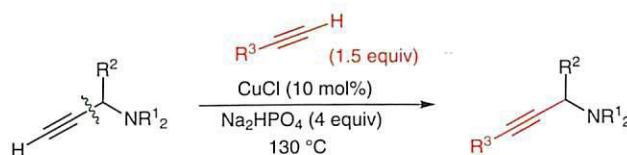


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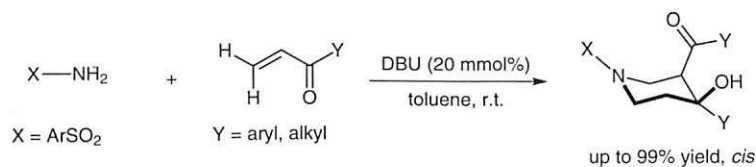
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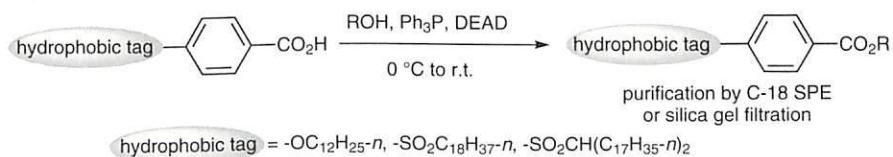
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1701 Compiled by
M. J. Dias Pires

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Compiled by
F. Thielbeer

Fluorescein

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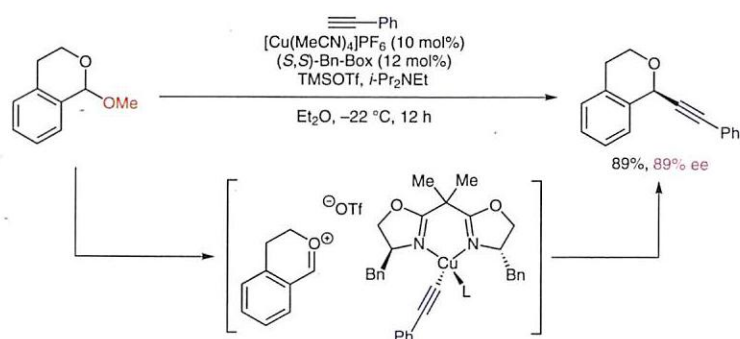
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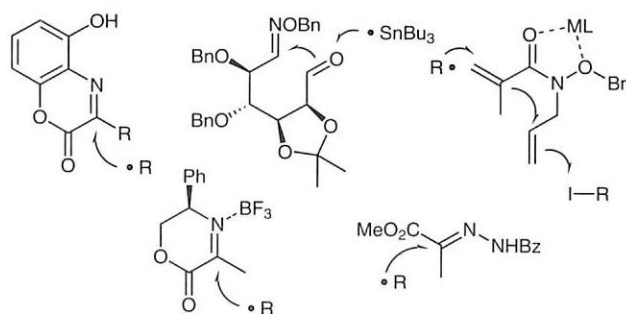
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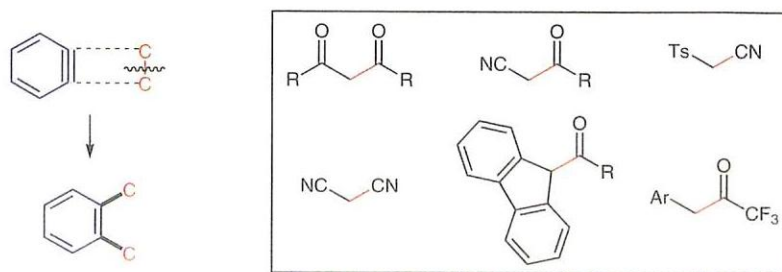
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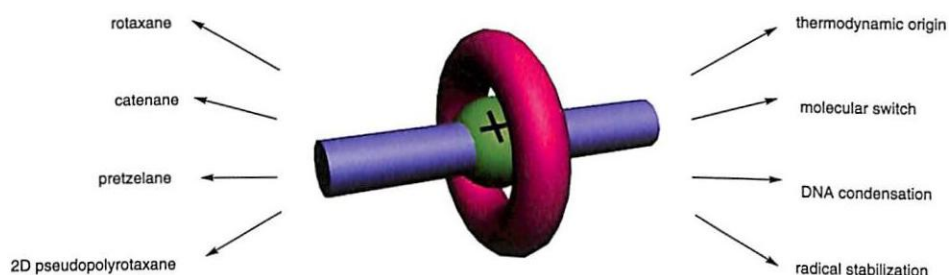
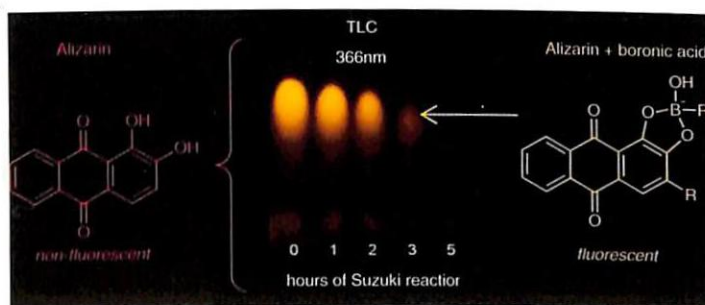
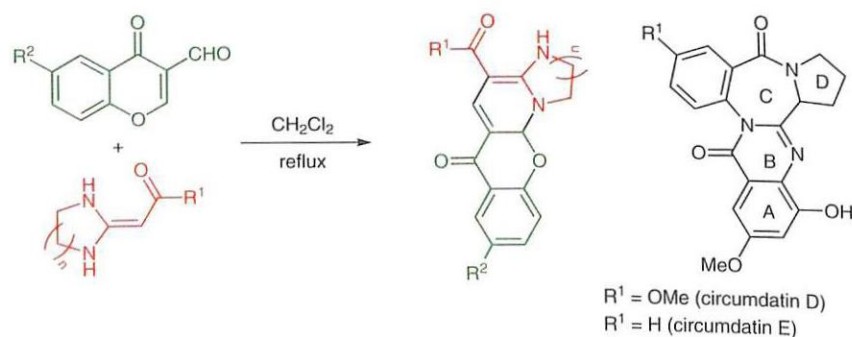
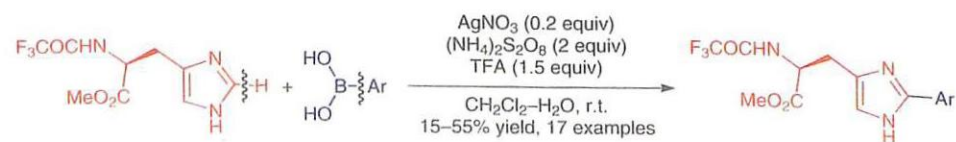
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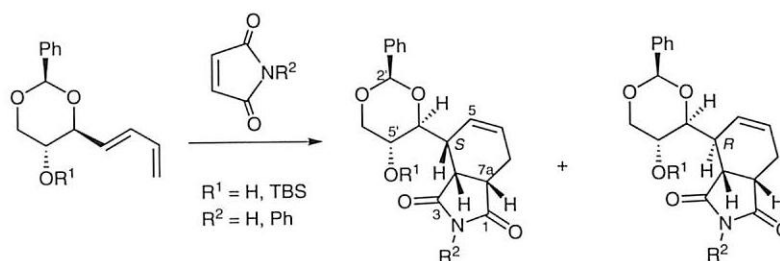
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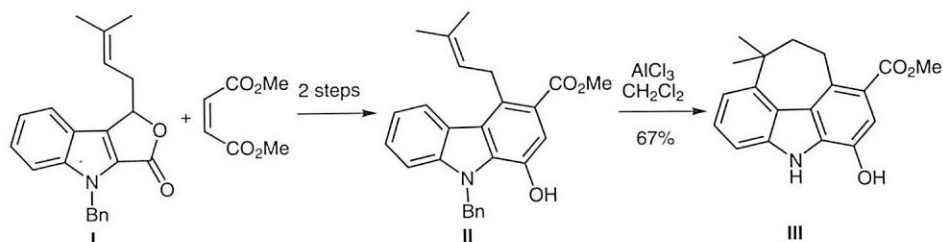
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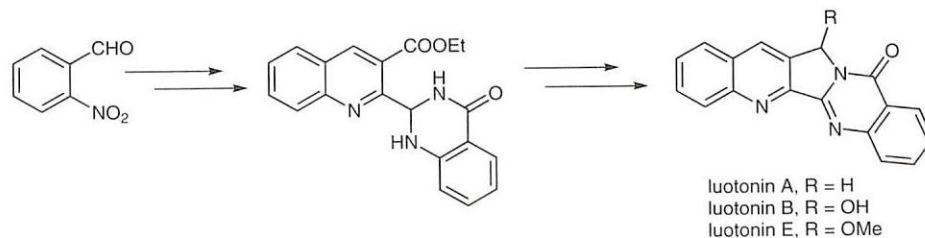
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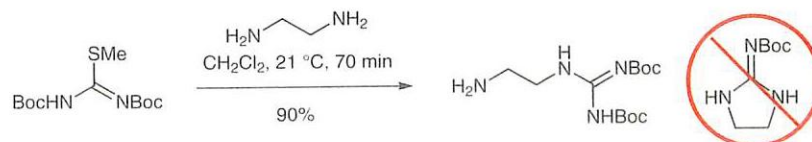
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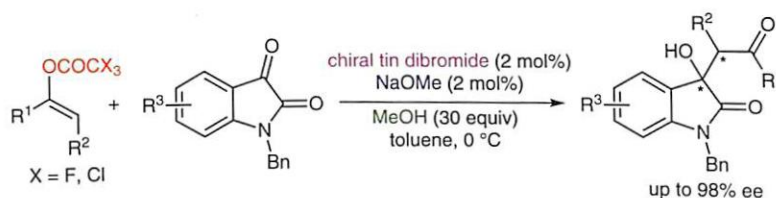
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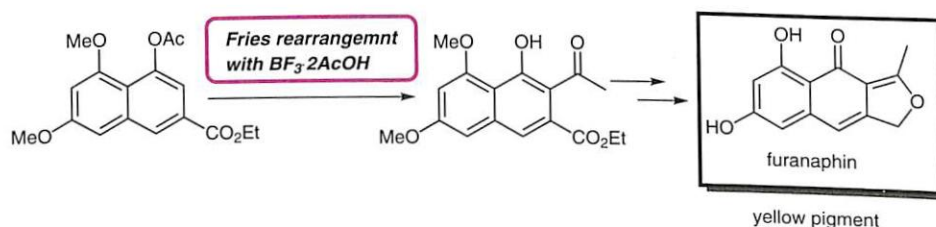
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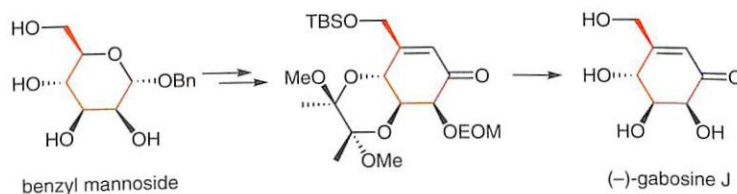
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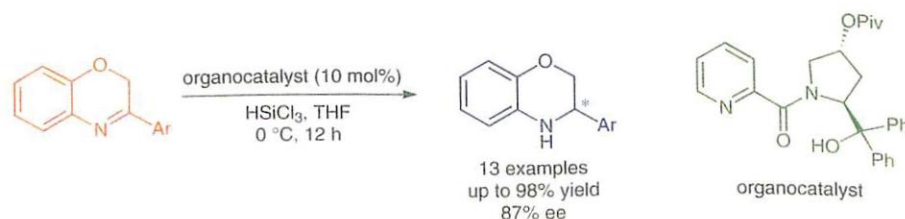
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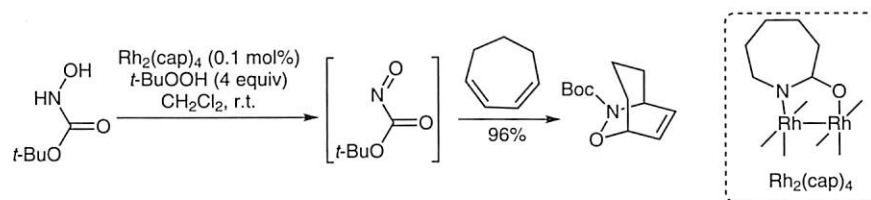
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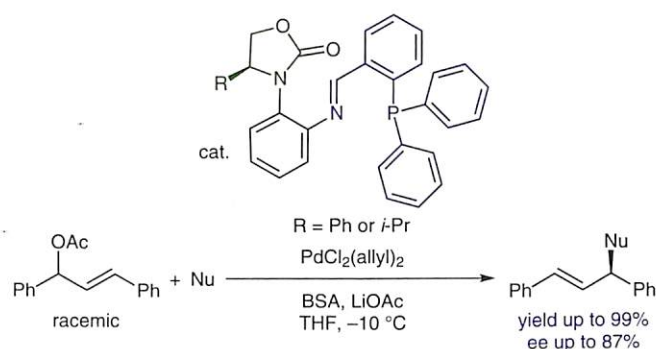
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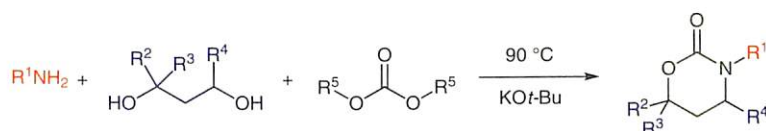
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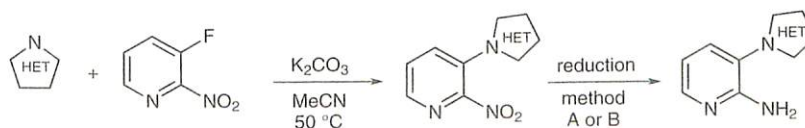
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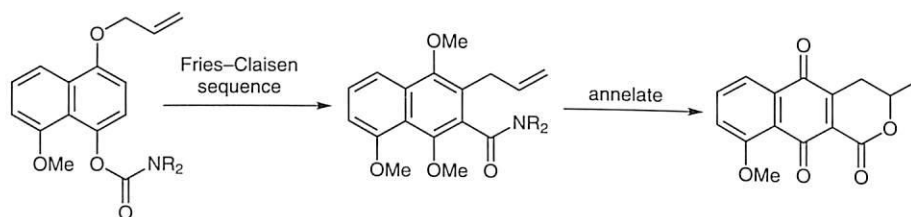
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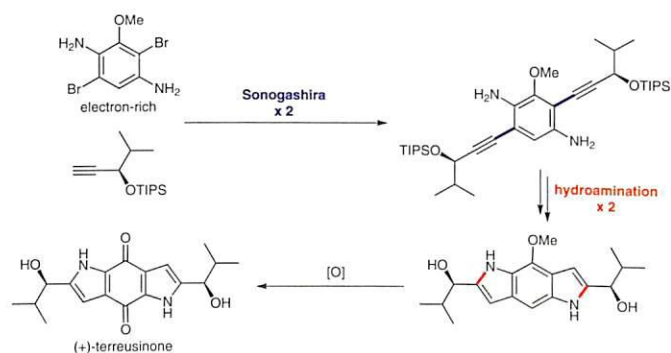
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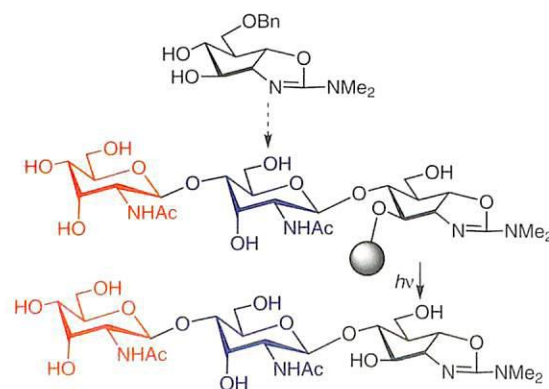
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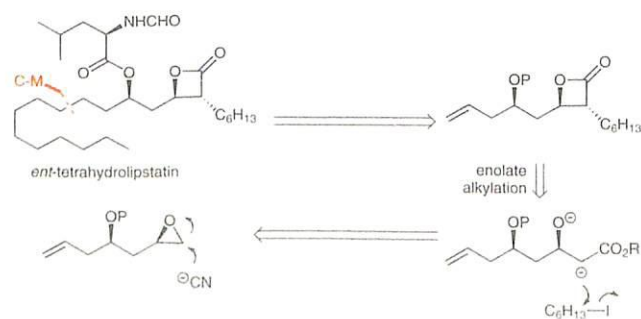
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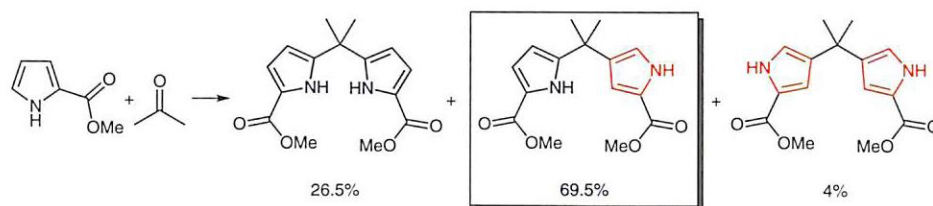


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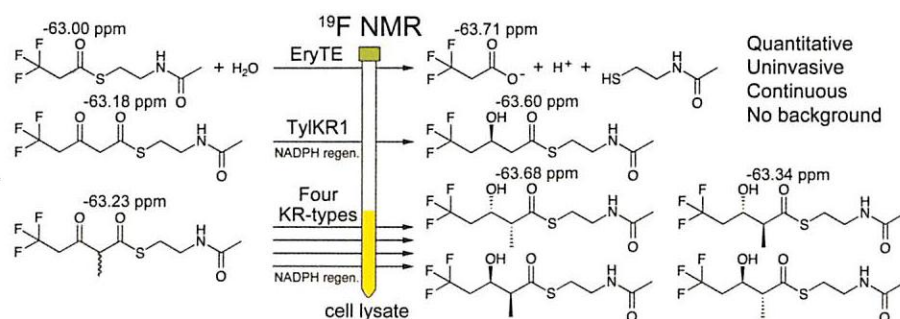
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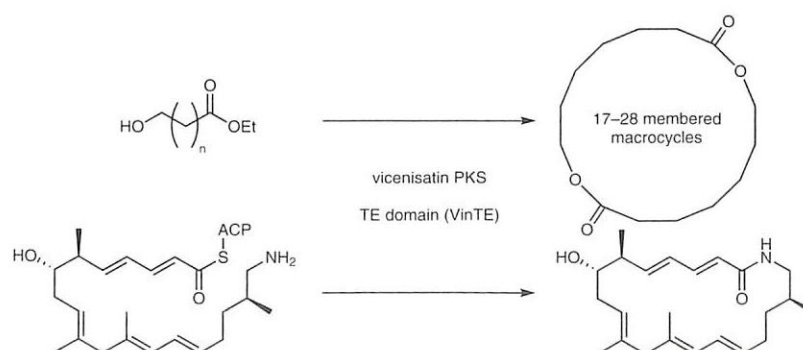
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1847 Compiled by
R.-Y. Guo

Sodium Selenide

1849

Compiled by
J. Bergueiro Álvarez**1-[[1-(Cyano-2-ethoxy-2-oxo-ethylidenaminoxy)dimethylaminomorpholinomethylene]]methaneaminium hexafluorophosphate**

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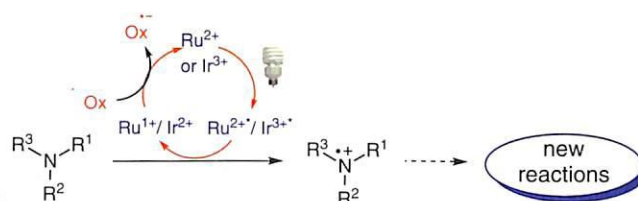
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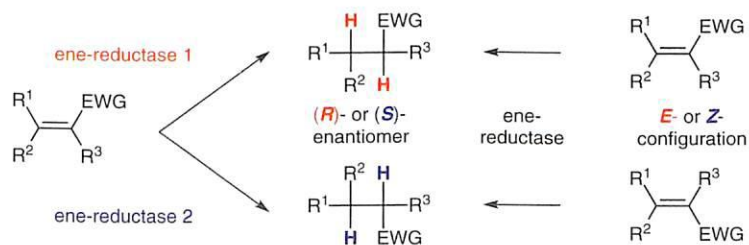
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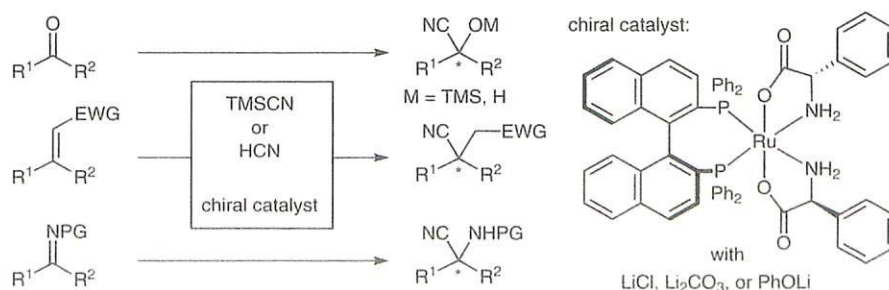
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M. Hall*

Stereocontrol Strategies in the Asymmetric Bioreduction of Alkenes



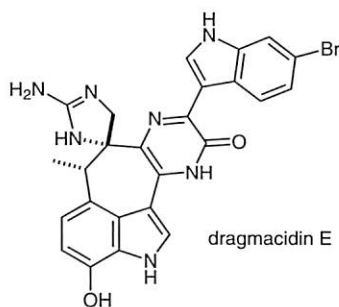
1865 T. Ohkuma*
N. Kurono

Asymmetric Cyanation with the Chiral Ru–Li Combined Catalysts



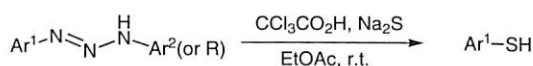
- 1882 K. S. Feldman*
P. Ngermeesri

Total Synthesis of (±)-Dragmacidin E; Problems Solved and Lessons Learned



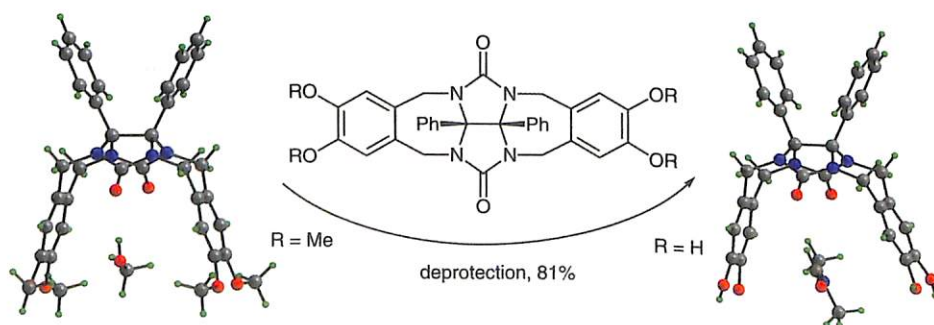
- 1893 A. Khazaei
M. Kazem-Rostami*
A. R. Moosavi-Zare
M. Bayat
S. Saednia

Novel One-Pot Synthesis of Thiophenols from Related Triazenes under Mild Conditions



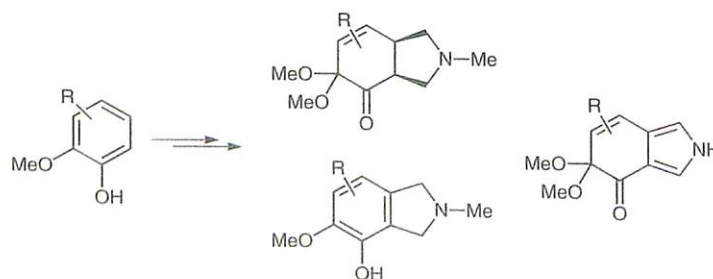
- 1897 L. S. Kikot'
A. Yu. Lyapunov
R. I. Zubatyuk
O. V. Shishkin
T. I. Kirichenko*

Molecular Clip Based on Diphenylglycoluril and Catechol: Promising Building Block of Supramolecular Structures



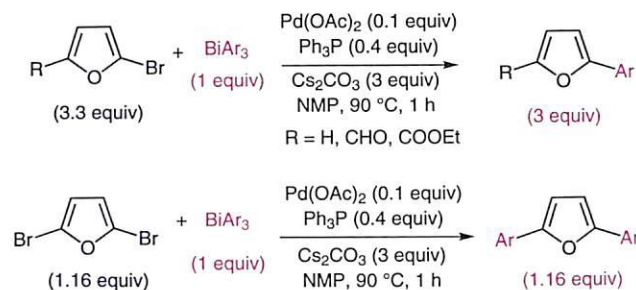
- 1901 S. K. Chittimalla*
R. Kuppusamy
A. Chakrabarti

[3+2] Cycloaddition of Masked *o*-Benzoquinones with Azomethine Ylides



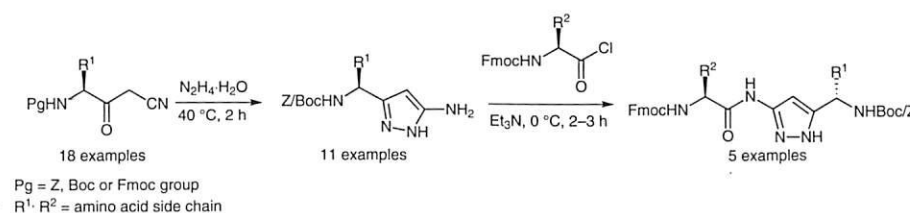
1907 M. L. N. Rao*
D. K. Awasthi
J. B. Talode

Mono- and Biscouplings Using Triarylbi-muths for the Atom-Efficient Arylations of Functionalized Furans under Palladium Catalysis



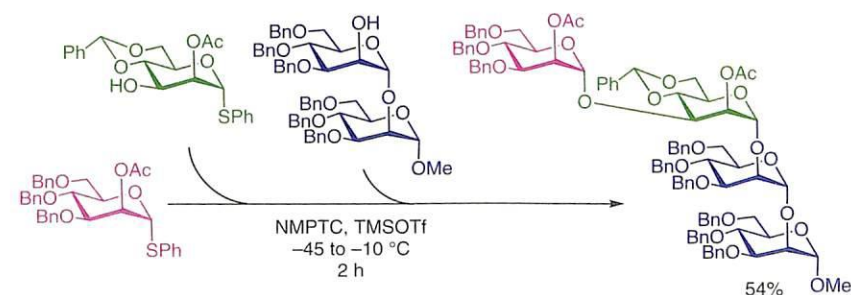
1913 M. K. Sharnabai
G. Nagendra
V. V. Sureshababu*

Synthesis of N-Urethane Protected α -Aminoalkyl- α' -cyanomethyl Ketones; Application to the Synthesis of 3-Substituted 5-Amino-1H-pyrazole Tethered Peptidomimetics



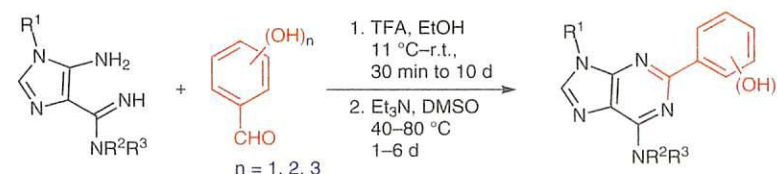
1919 S. K. Maity
R. Ghosh*

A Three-Component, One-Pot, Sequential Synthesis of a Common Tetrasaccharide Block Related to the Lipopolysaccharide of the *Escherichia Coli* O9, *Klebsiella pneumonia* O3, and *Hafnia alvei* PCM 1223



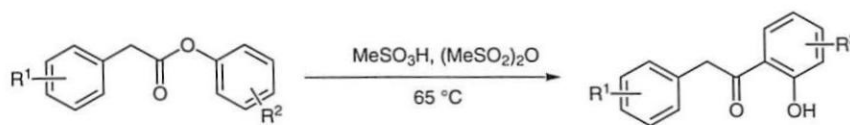
1923 C. Correia
M. A. Carvalho*
A. Rocha
M. F. Proença

General Synthetic Approach to 2-Phenolic Adenine Derivatives



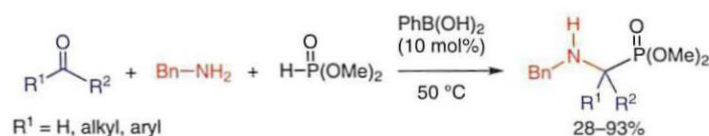
- 1927 I. Jeon*
I. K. Mangion

An Improved Synthesis of Hydroxy Aryl Ketones by Fries Rearrangement with Methanesulfonic Acid/Methanesulfonic Anhydride



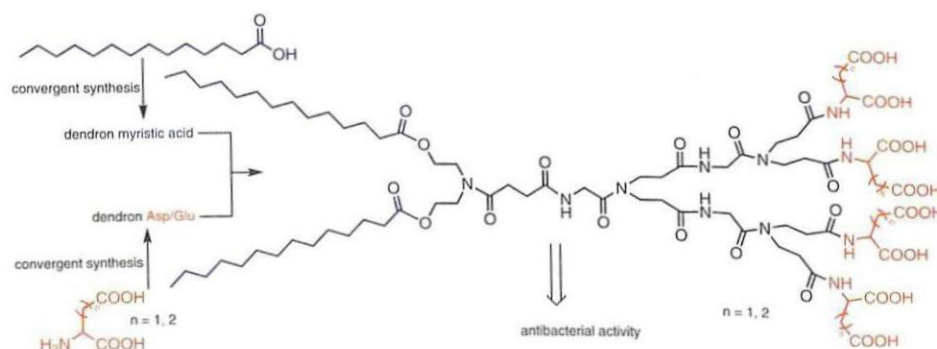
- 1931 G. D. Tibhe
M. Bedolla-Medrano
C. Cativiela
M. Ordóñez*

Phenylboronic Acid as Efficient and Eco-Friendly Catalyst for the One-Pot, Three-Component Synthesis of α -Aminophosphonates under Solvent-Free Conditions



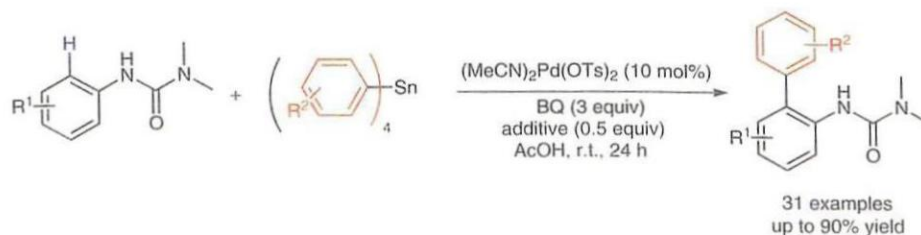
- 1937 J. Pan
L. Guo*
L. Ouyang
D. Yin
Y. Zhao

Synthesis, Antibacterial Activity and Cytotoxicity of Novel Janus Peptide Dendrimers



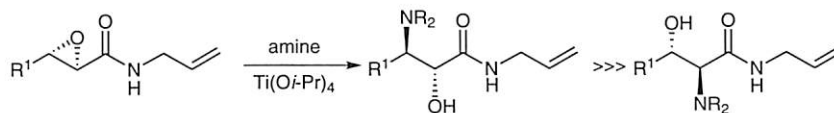
- 1941 D. Xue*
J. Li
Y.-X. Liu
W.-Y. Han
Z.-T. Zhang
C. Wang
J. Xiao*

Room-Temperature Stille Coupling of Tetraarylstannanes via Palladium-Catalyzed C-H Activation



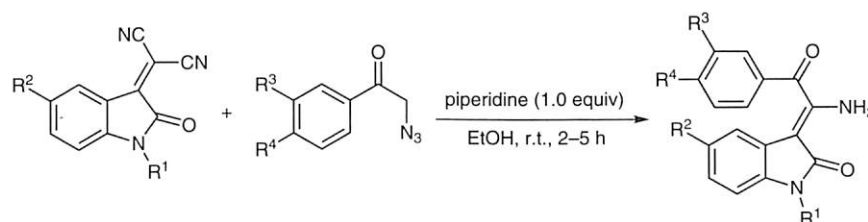
1947 G. Righi*
A. Mantineo
L. Suber
A. Mari*

Ti(O*i*-Pr)₄-Promoted Regio- and Stereoselective Aminolysis of 2,3-Epoxy Amides



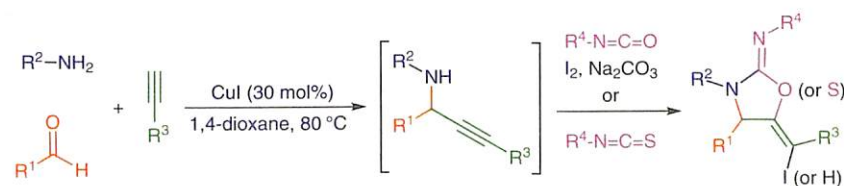
1950 J. Kamalraja
T. H. Babu
D. Muralidharan
P. T. Perumal*

A Facile Method for the Synthesis of 3-(Aminomethylene)oxindoles from Isatylidene Malononitriles and α -Azido Ketones



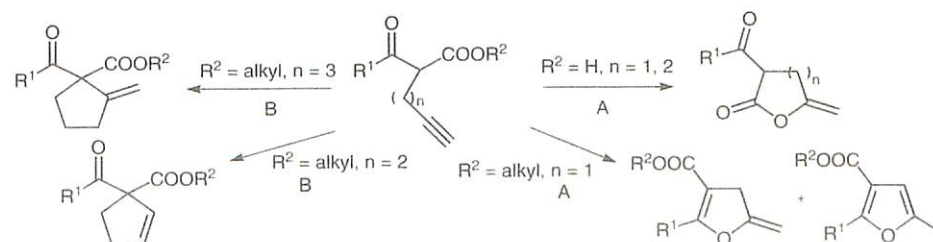
1955 C. Madaan
S. Saraf
G. Priyadarshani
P. P. Reddy
S. K. Guchhait*
A. C. Kunwar
B. Sridhar

One-Pot, Three-Step Copper-Catalyzed Five-/Four-Component Reaction Constructs Polysubstituted Oxa(Thia)zolidin-2-imines



1960 X. Meng
S. Kim*

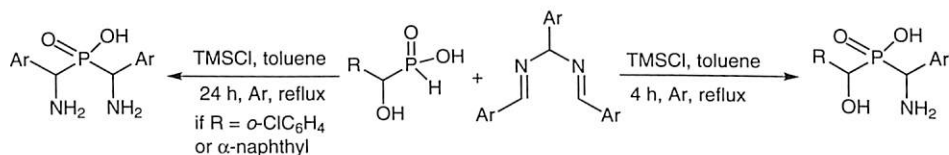
W(CO)₅(L)-Catalyzed Cyclization of α -Alkynyl- β -dicarbonyl Derivatives: Synthesis of Methylene lactones, Furans, and Methylene cyclopentanes



conditions A: W(CO)₆ (0.2 equiv), Et₃N (1 equiv), THF, 350 nm
conditions B: W(CO)₆ (0.2 equiv), DABCO (1 equiv), toluene, 350 nm

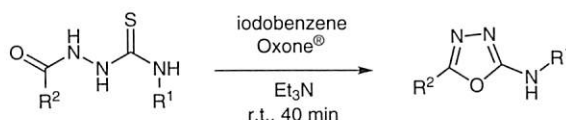
- 1965 B. Kaboudin*
H. Haghighat
S. Alaie
T. Yokomatsu

Novel Method for the Synthesis of α -Amino- α' -hydroxyalkylphosphinic Acids and Bis(α -aminoalkyl)phosphinic Acids: Nucleophilic Addition of α -Hydroxy-*H*-phosphinic Acids to Diimines



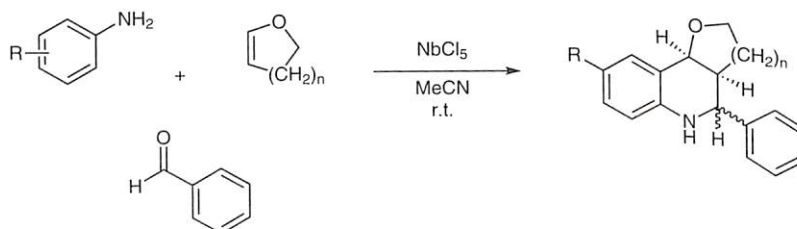
- 1970 K. N. Patel
N. C. Jadhav
P. B. Jagadhane
V. N. Telvekar*

A Novel Strategy for the Construction of Azole Heterocycles via an Oxidative Desulfurization Approach Using Iodobenzene and Oxone[®]



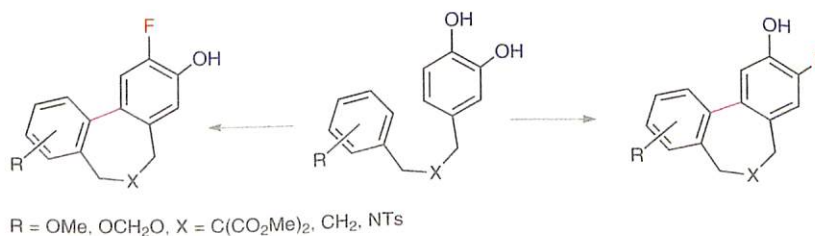
- 1973 B. H. S. T. da Silva
L. M. Martins
L. C. da Silva-Filho*

Niobium Pentachloride Catalyzed Multicomponent Povarov Reaction



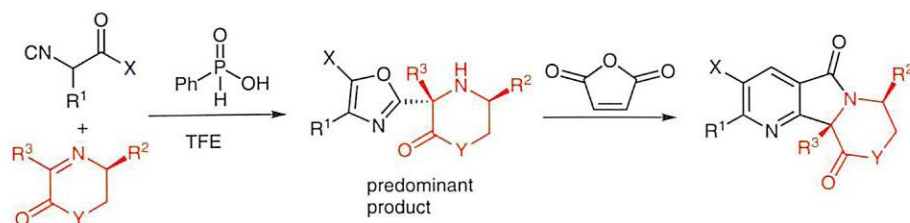
- 1978 H. Nemoto
K. Takubo
K. Shimizu
S. Akai*

Regioselective Synthesis of Fluorinated Bridged Biphenyls



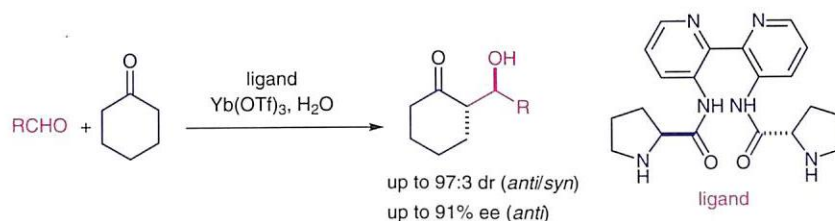
1985 S. Li
R. Chen
X. Liu
L. Pan
L. Xia
X. Chen*

An Ugi-Type Condensation of α -Isocyanoacetamide and Chiral Cyclic Imine under a New Catalytic System



1990 H.-W. Zhao*
H.-L. Li
Y.-Y. Yue
X. Qin
Z.-H. Sheng
J. Cui
S. Su
X.-Q. Song
H. Yan
R.-G. Zhong

Design, Synthesis and Use of Novel 3,3'-Disubstituted 2,2'-Bipyridine-Based Chiral Ligands: Asymmetric Catalysis in Direct Aldol Reactions



1995 Compiled by
M. Amini

Copper(II) Acetate

1997 Compiled by
R. R. Paul

Mercuric Triflate

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- Akai, S. 1978
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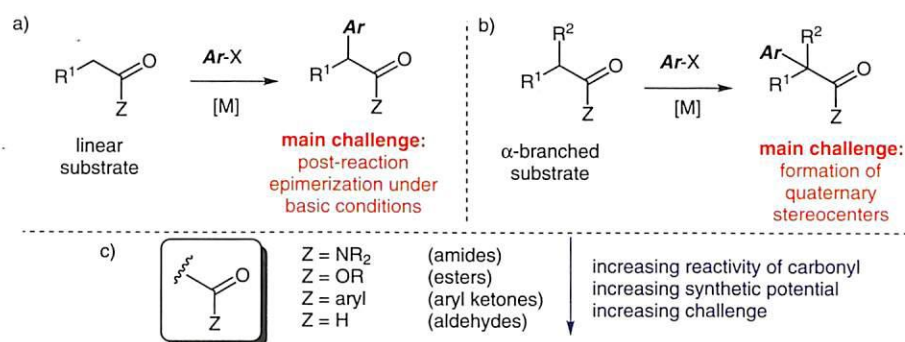
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 Zhang, Z.-T. 1941
 Zhao, H.-W. 1990
 Zhao, Y. 1937
 Zheng, N. 1851
 Zhong, R.-G. 1990
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1999 C. Mazet*

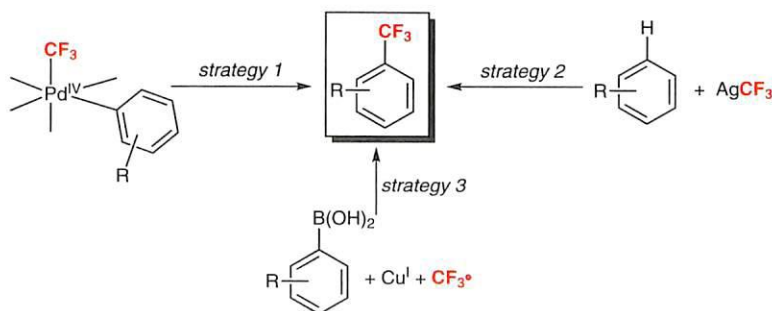
Challenges and Achievements in the Transition-Metal-Catalyzed Asymmetric α -Arylation of Aldehydes



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2005 Y. Ye
M. S. Sanford*

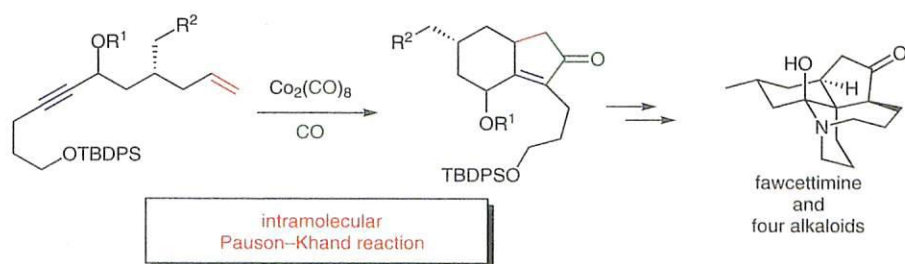
Investigations into Transition-Metal-Catalyzed Arene Trifluoromethylation Reactions



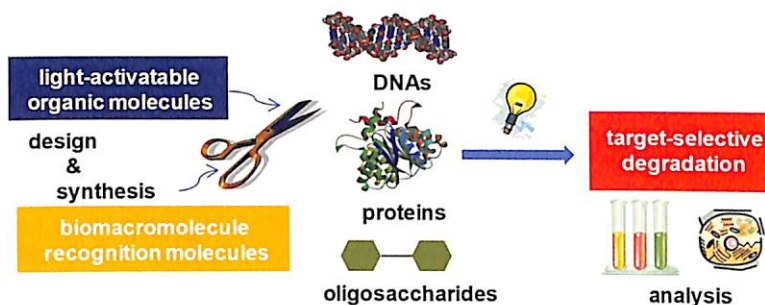
Accounts

2014 A. Nakayama
M. Kitajima
H. Takayama*

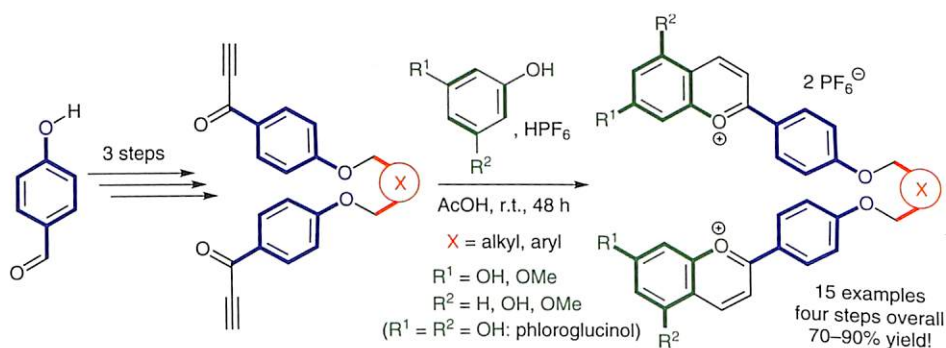
Syntheses of Fawcettimine-Type *Lycopodium* Alkaloids Utilizing the Pauson-Khand Reaction



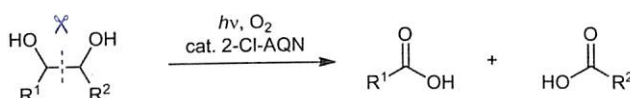
- 2025 K. Toshima* **Design, Synthesis and Evaluation of Light-Activatable Organic Molecules that Target-Selectively Degrade DNA, Proteins and Carbohydrates; an Interdisciplinary Challenge for a Synthetic Organic Chemist**



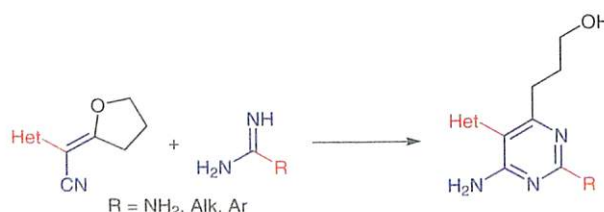
- 2053 M. Kueny-Stotz*
R. Brouillard
S. Chassaing* **Four-Step Route to Novel Bisflavylium Dications – First Synthesis of Phloroglucinol-Type Derivatives**



- 2059 Y. Matsusaki
T. Yamaguchi
N. Tada
T. Miura
A. Itoh* **Aerobic Photooxidative Cleavage of Vicinal Diols to Carboxylic Acids Using 2-Chloroanthraquinone**

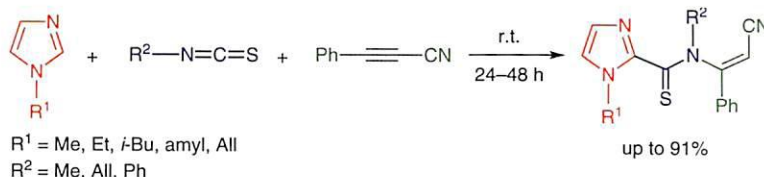


- 2063 D. S. Milokhov
O. V. Khilya*
Y. M. Volovenko
G. V. Palamarchuk
O. V. Shishkin **Reaction of 2-Hetaryl-2-(tetrahydro-2-furanyliden)acetonitriles with 1,3-N,N-Binucleophiles**



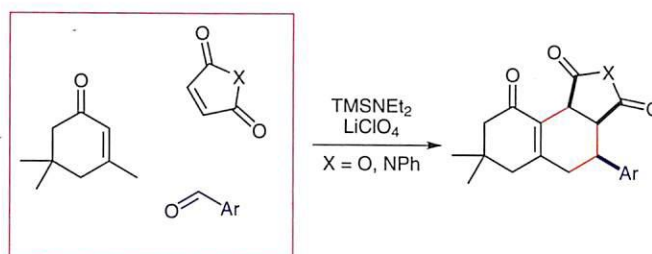
2069 B. A. Trofimov*
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L. P. Nikitina
K. V. Belyaeva
A. G. Mal'kina
A. V. Afonin
I. A. Ushakov

Stereoselective Metal-Free Reaction of Imidazoles with Isothiocyanates Involving Cyanophenylacetylene: A Shortcut to *N*-(*Z*-Alkenyl)imidazole-2-carbothioamides



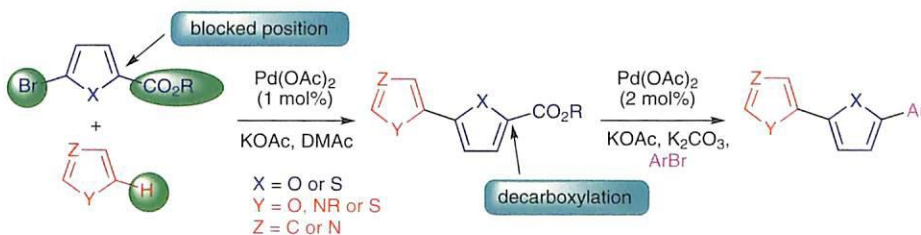
2073 M. S. Abaee*
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K. Harms
W. Massa

A Novel and Efficient Tandem Aldol Condensation–Diels–Alder Reaction Pathway for the Direct Synthesis of Dehydrodecaline Derivatives



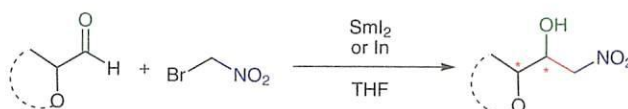
2077 H. Y. Fu
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C. Bruneau
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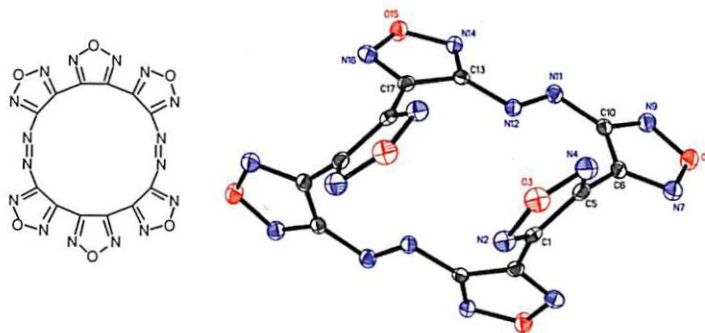
2083 H. Rodríguez-Solla*
N. Alvaredo
R. G. Soengas*

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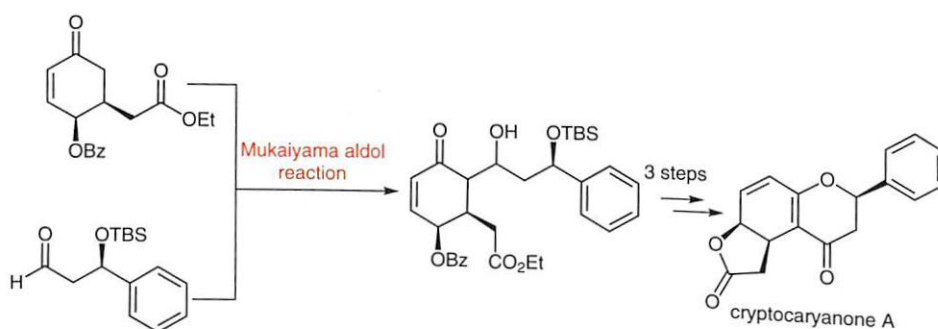
- 2126 D. E. Chavez*
D. A. Parrish
P. Leonard

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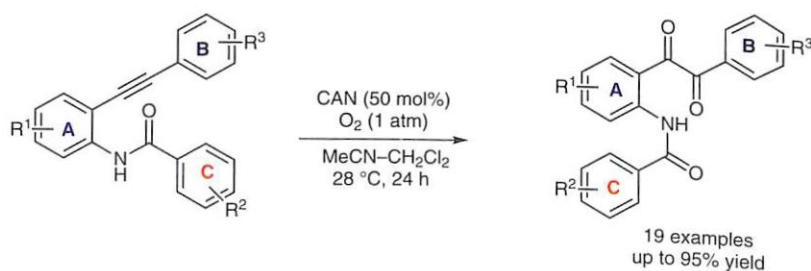
- 2129 B. Zhang
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B. Ma
X. Xie*
X. She*

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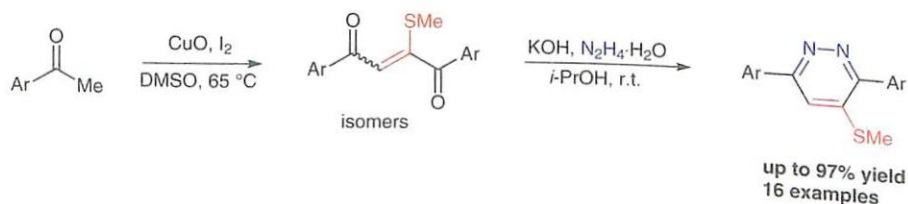
- 2132 C.-F. Su
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- 2137 L. Wu
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D. Zhang
W. Shu
Y. Zhu
A. Wu*

A Novel and Highly Regioselective Route to Construct Methylthio-Substituted Pyridazines from Aryl Methyl Ketones at Room Temperature



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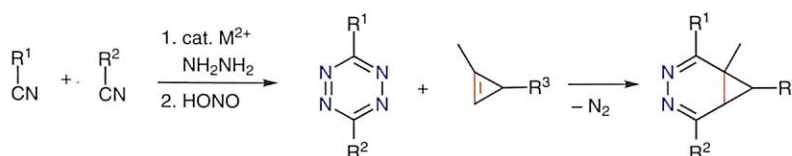
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2147 N. K. Devaraj*

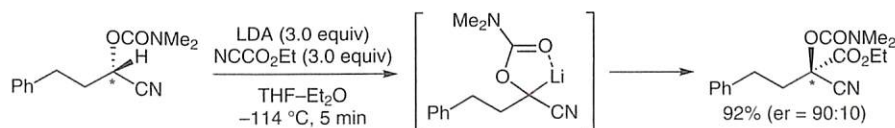
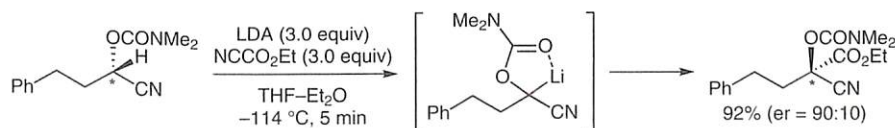
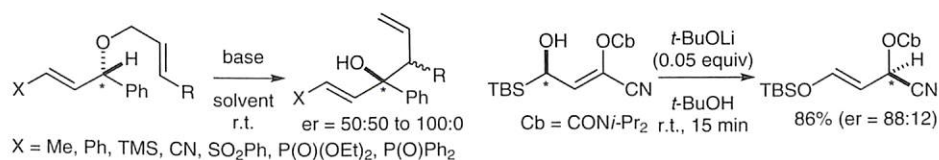
Advancing Tetrazine Bioorthogonal Reactions through the Development of New Synthetic Tools



Synfacts

 2153 M. Sasaki
 K. Takeda*

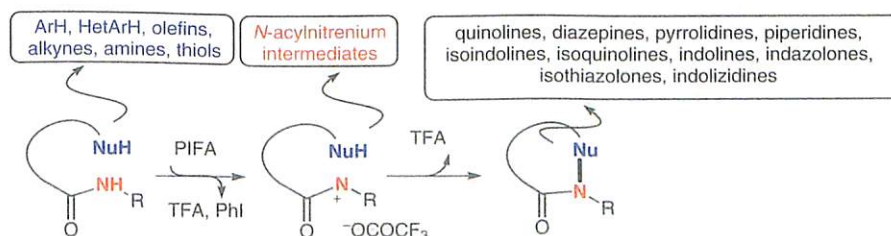
Synthetic Potential of Configurationally Unstable Chiral Carbanions



Accounts

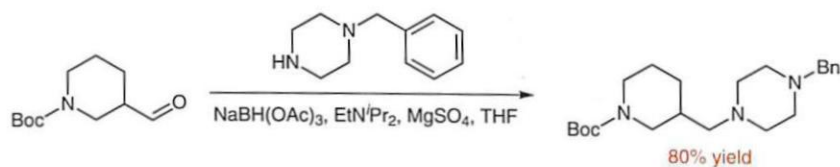
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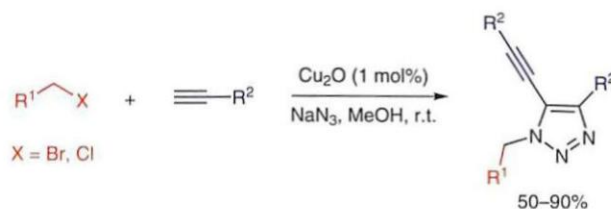


'one reaction, numerous heterocycles!!'

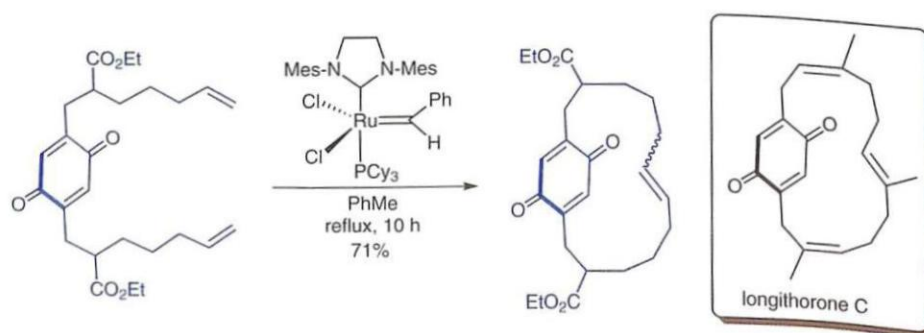
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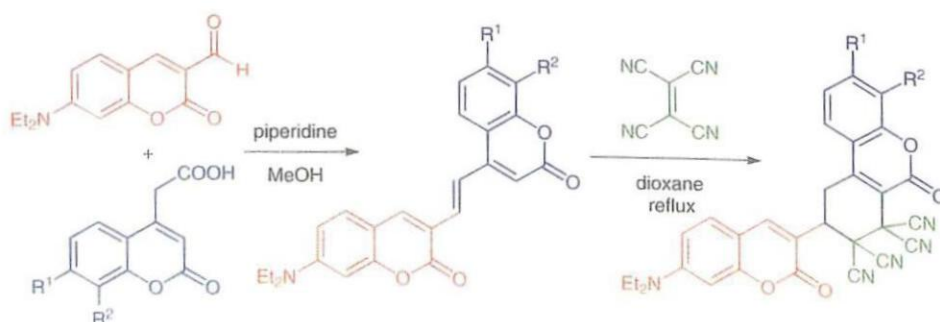
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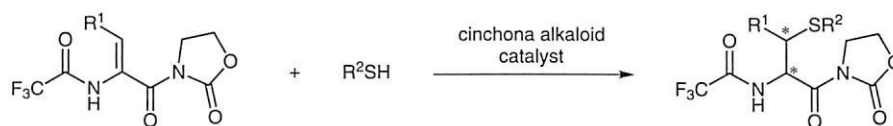


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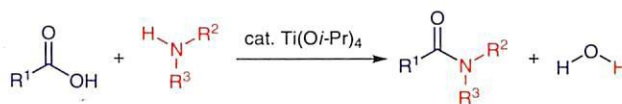


R^1 = ethyl, n-propyl, phenyl and benzyl
 R^2 = ethyl, allyl, phenyl, benzyl, 4-methoxybenzyl

yield 75–99%
dr up to 83:17
ee up to 95%

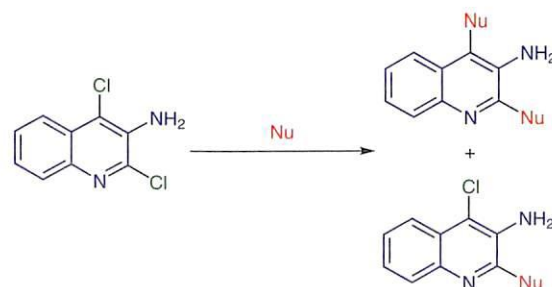
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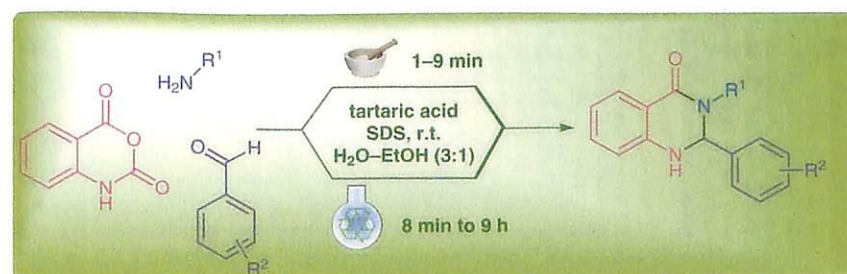
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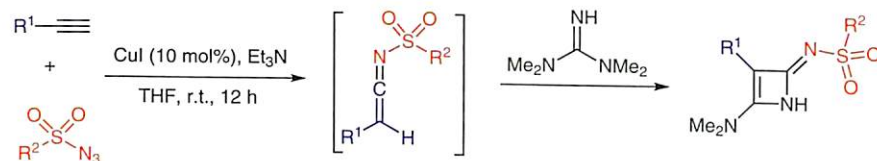
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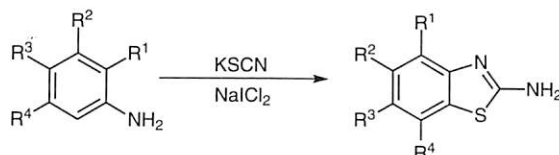
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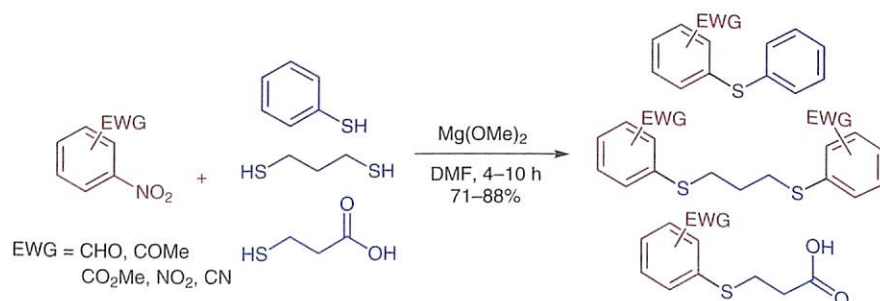
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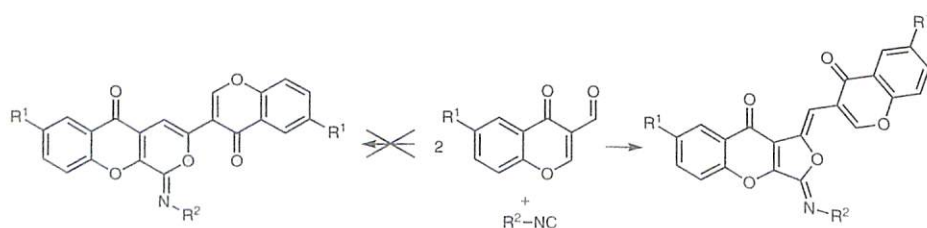
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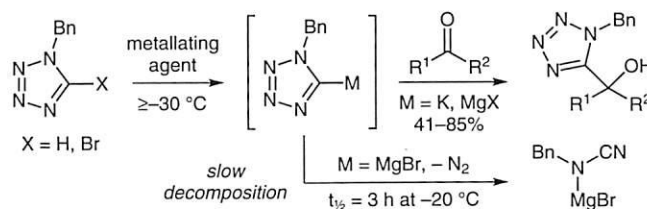
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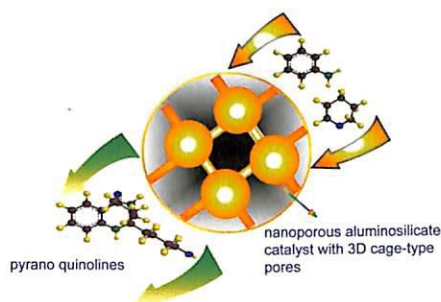
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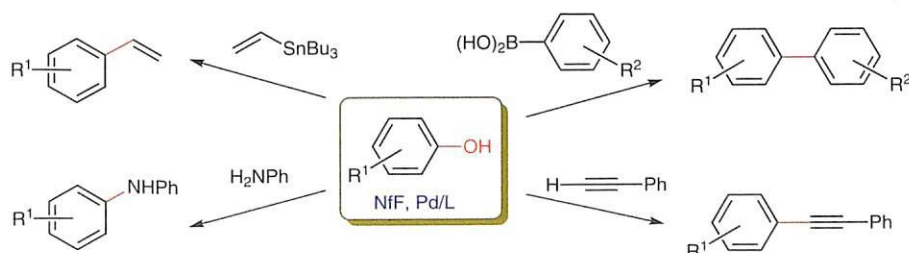
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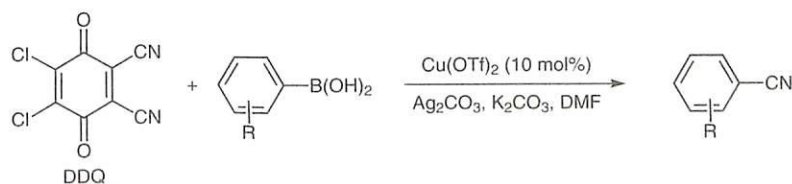
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- 2247 G. Zhang
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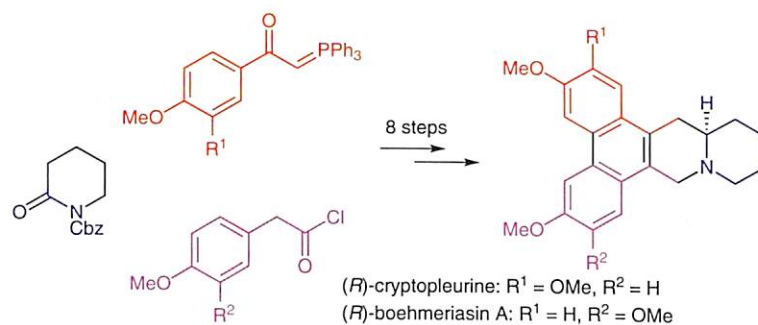
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C. Zeng
H. Liu
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J. Guo
S. Jiang
S. Yu*

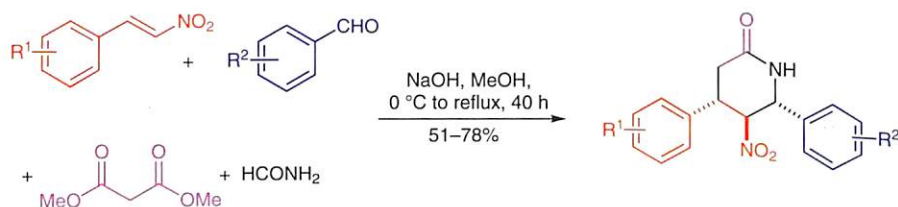
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P. Yan
C. Wang*

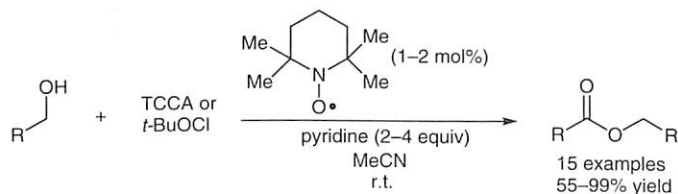
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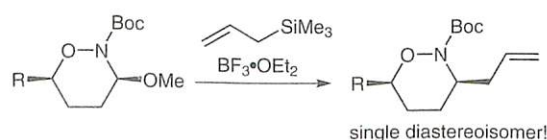
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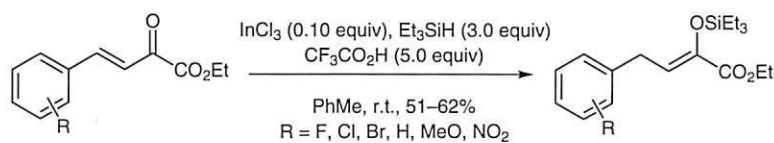
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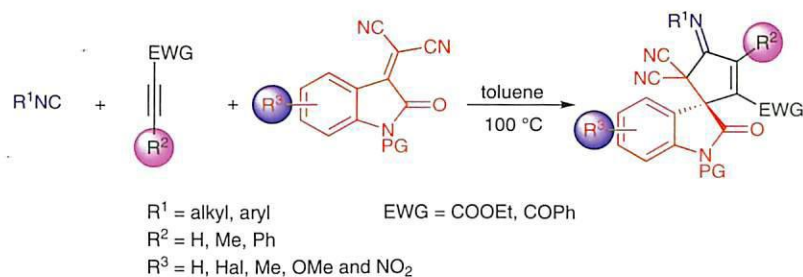
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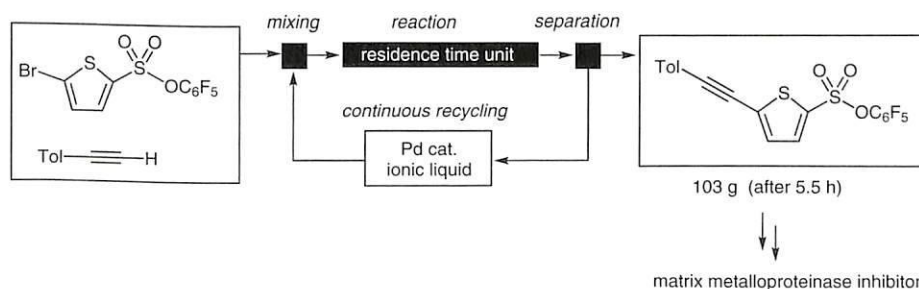
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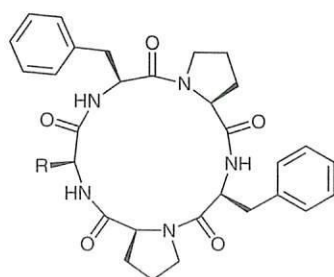
- 2279 T. Fukuyama*
Md. T. Rahman
Y. Sumino
I. Ryu*

100 Gram Scale Synthesis of a Key Intermediate of Matrix Metalloproteinase Inhibitor in a Continuous-Flow System Based on a Copper-Free Sonogashira Reaction Using an Ionic Liquid as a Catalyst Support



- 2284 H. Kaur
A. M. Heapy
M. A. Brimble*

Synthesis of the All-L Cyclopentapeptides Versicoloritides A, B, and C



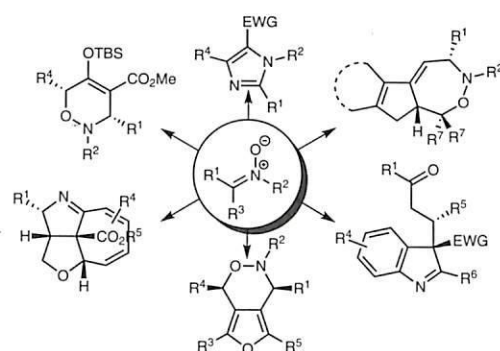
versicoloritide A: R = Me
 versicoloritide B: R = H
 versicoloritide C: R = CH_2OH

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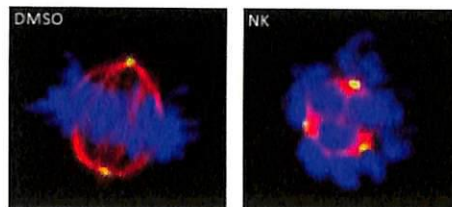
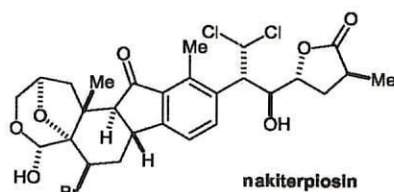
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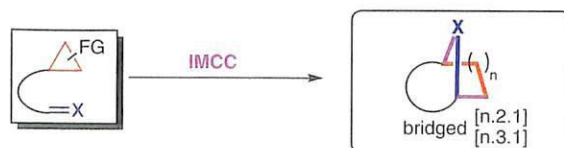
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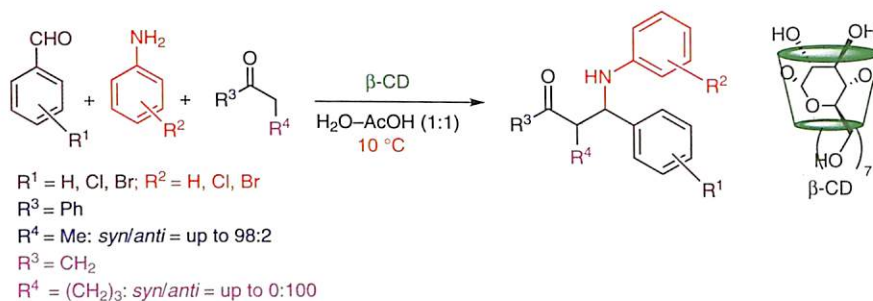
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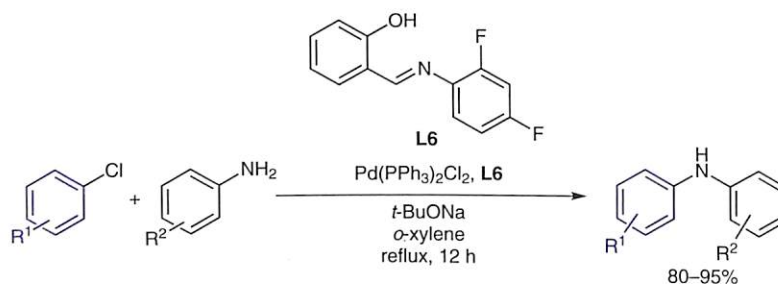
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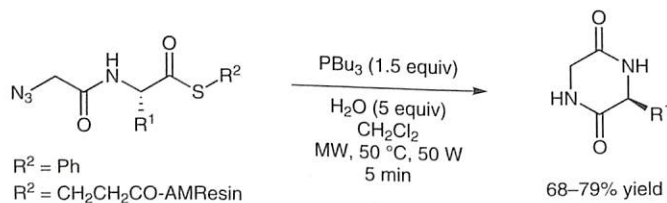


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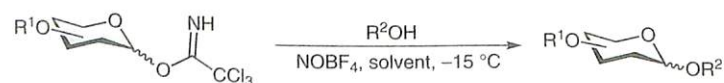
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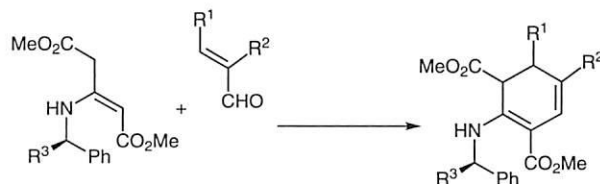
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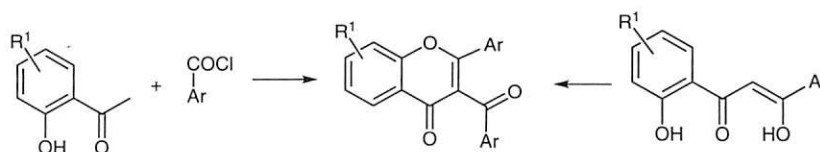
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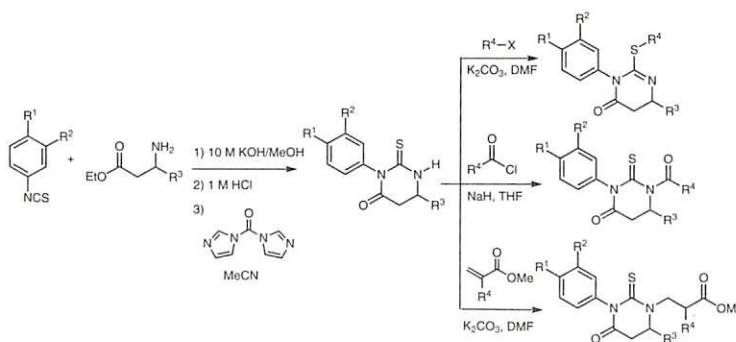
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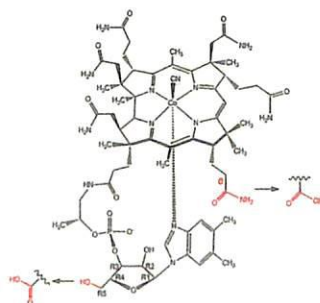
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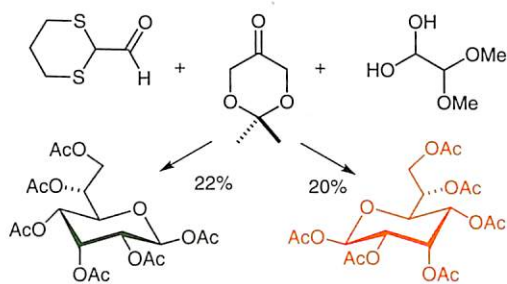
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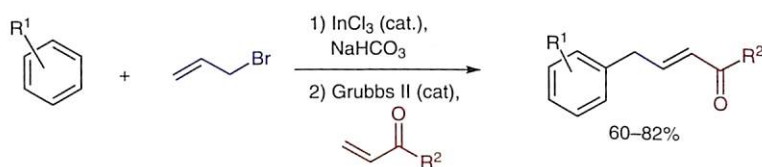
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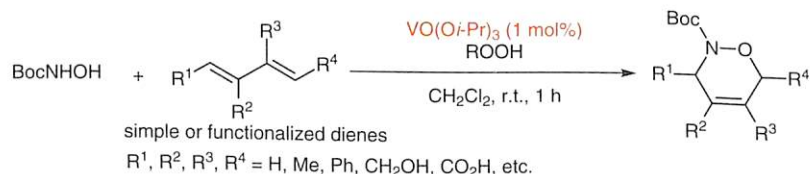
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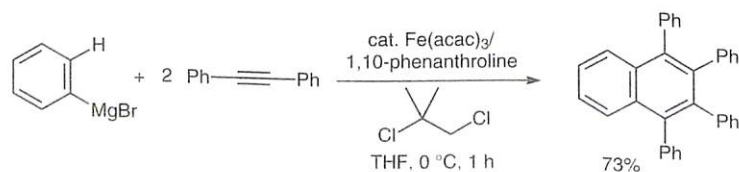
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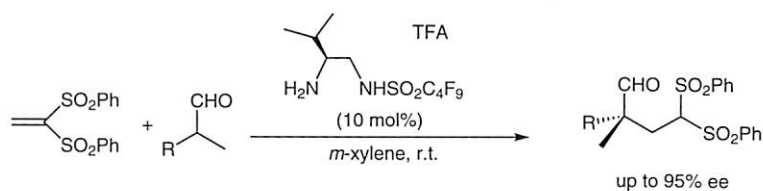
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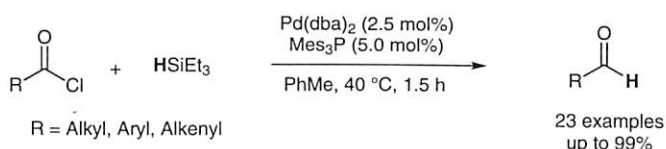
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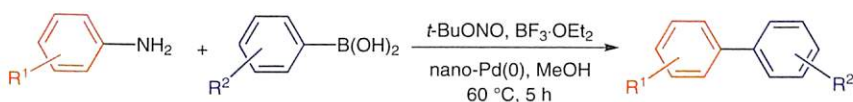
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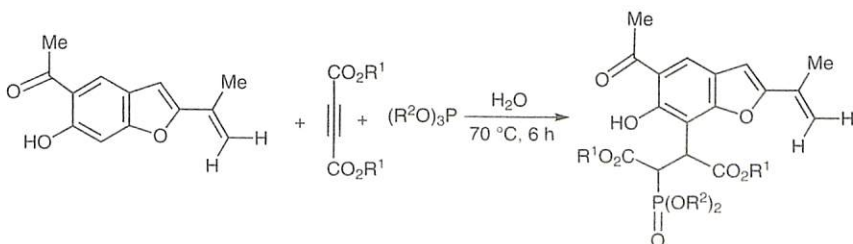
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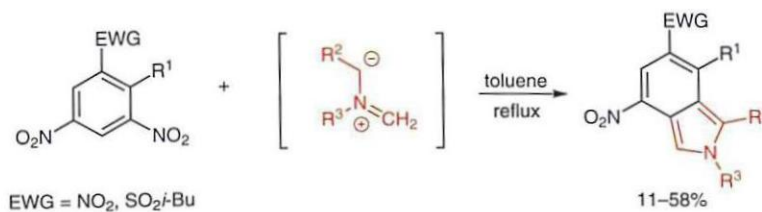
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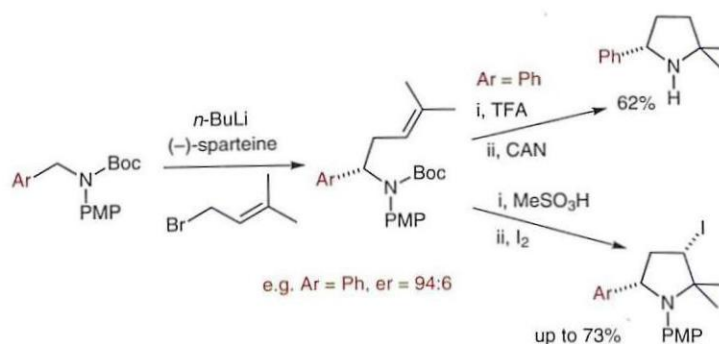
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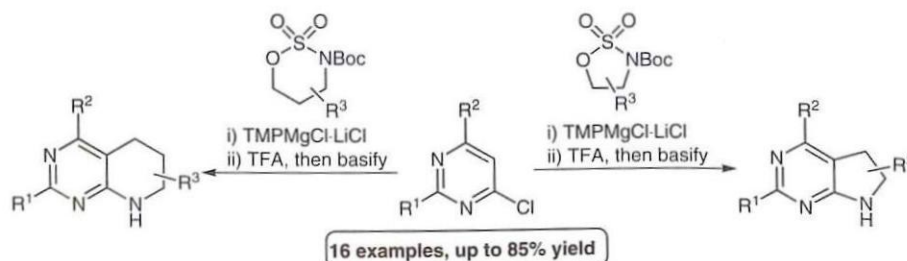
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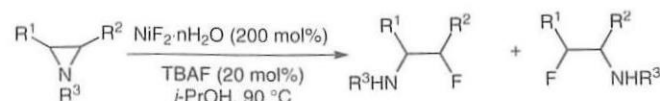
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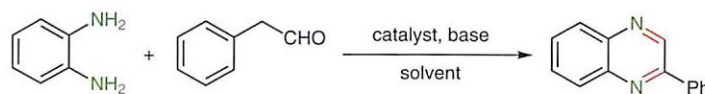
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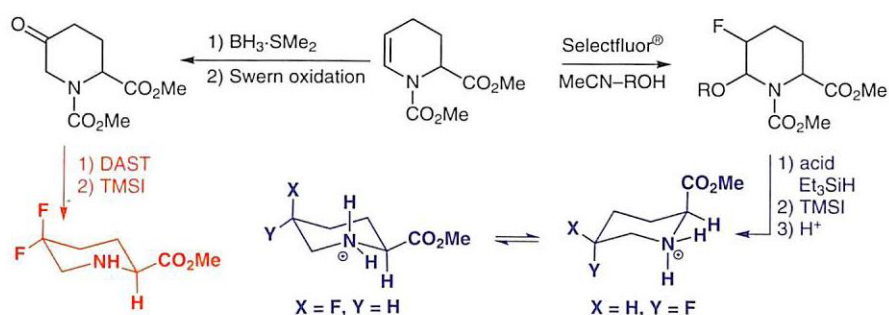
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T. Prangé
P. I. Dalko
H. Dhimane*

Synthesis and Conformational Analysis of Fluorinated Piperolic Acids



2426 Compiled by
A. Zivanovic

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2428 Compiled by
A. K. Yadav

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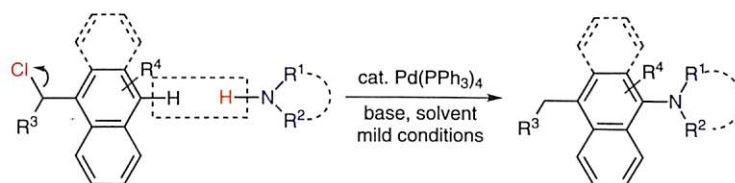
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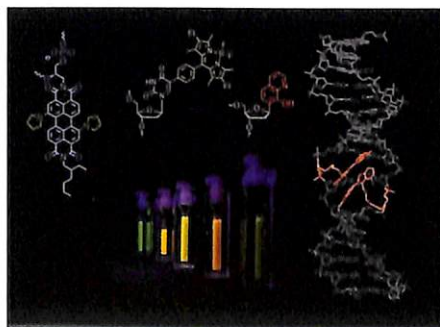
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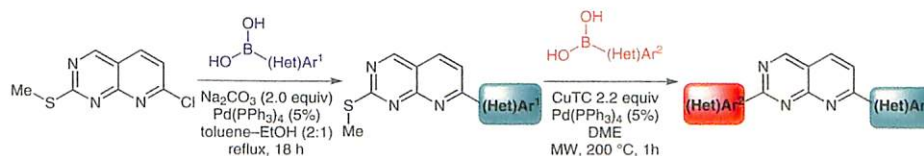
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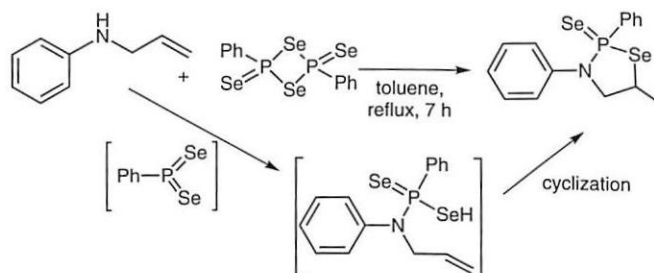
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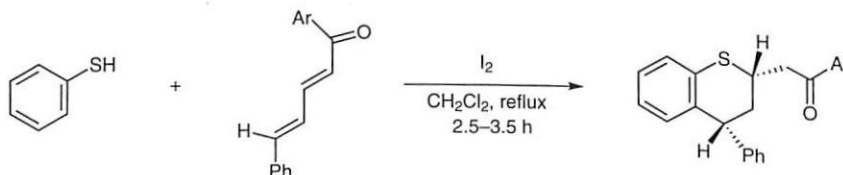
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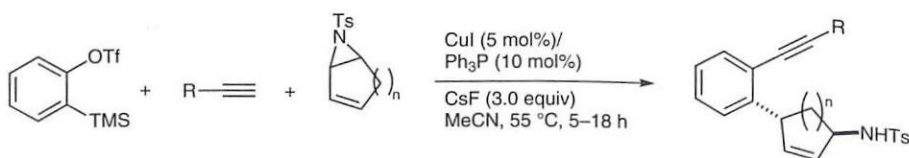
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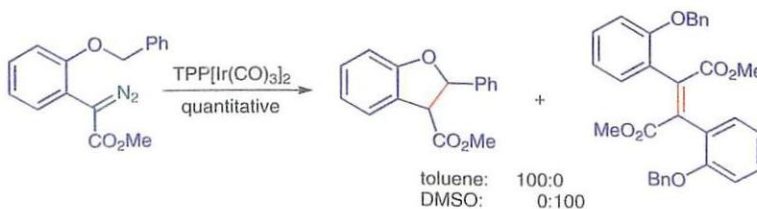
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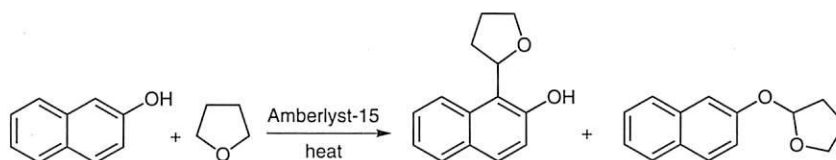
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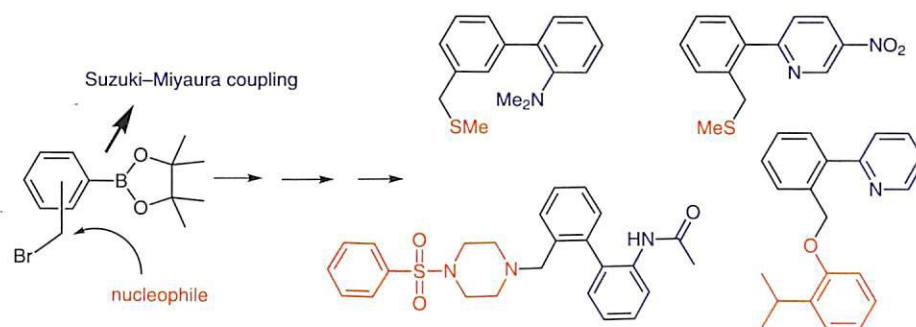
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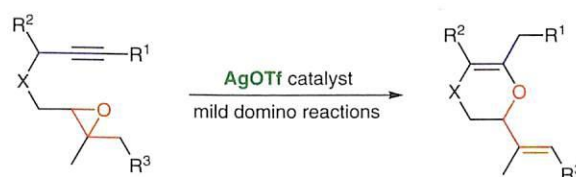
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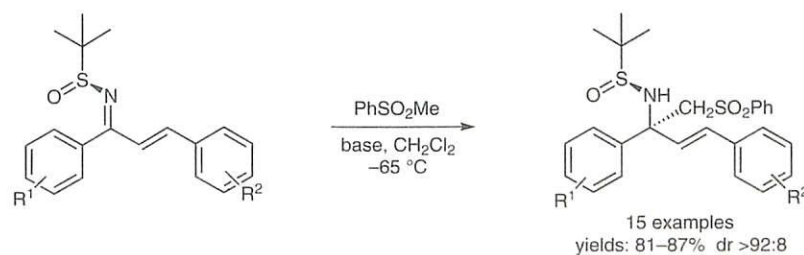
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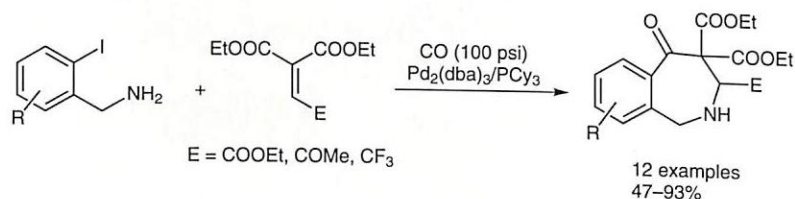


- 2485 H. Zhang
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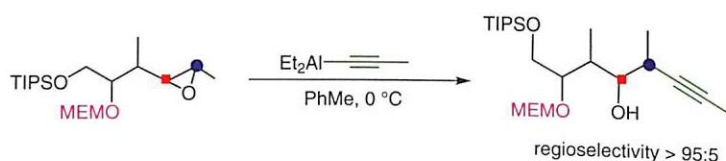
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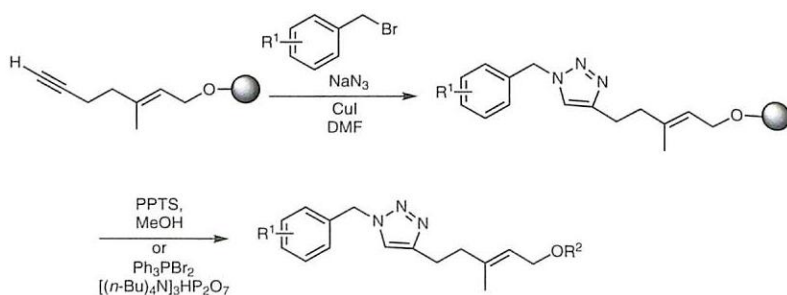
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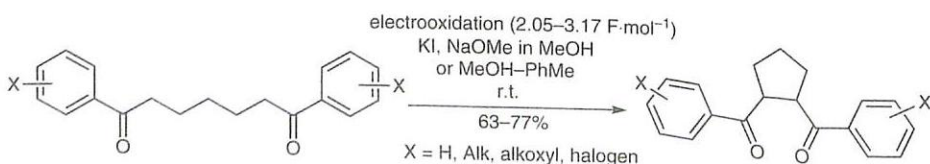
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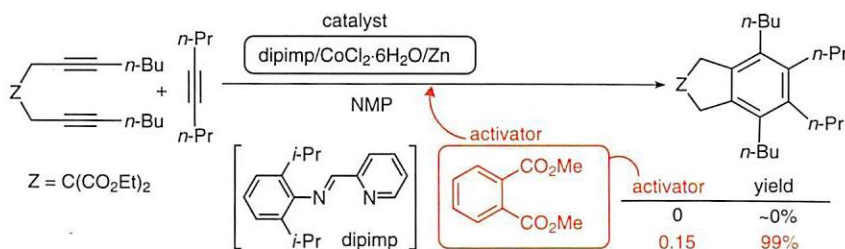


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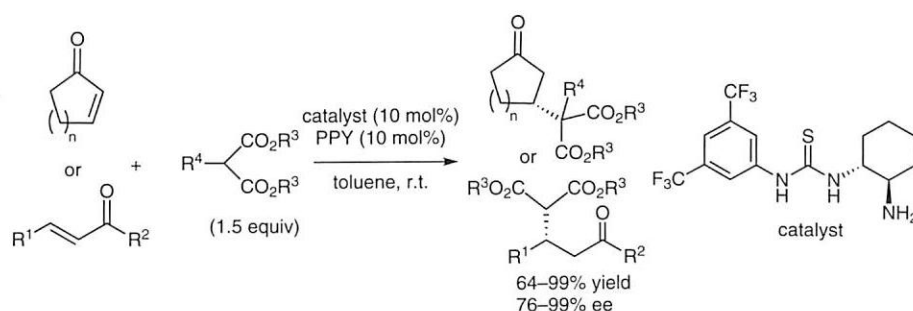
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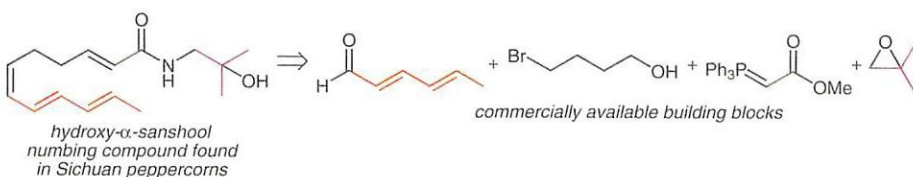
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Compiled by
K. M. Kumar

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Compiled by
C. Zhang

Laccase

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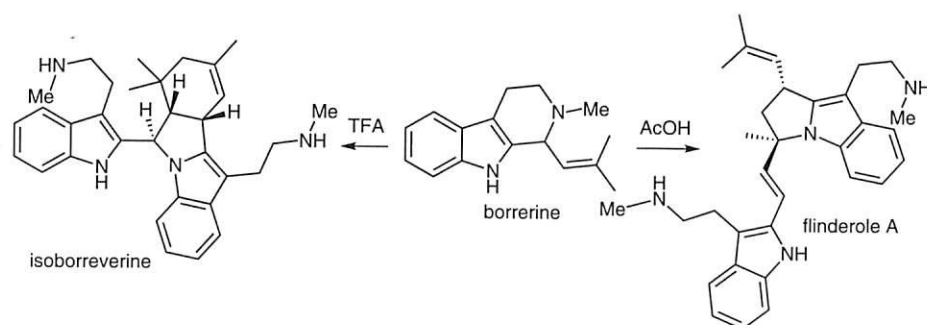
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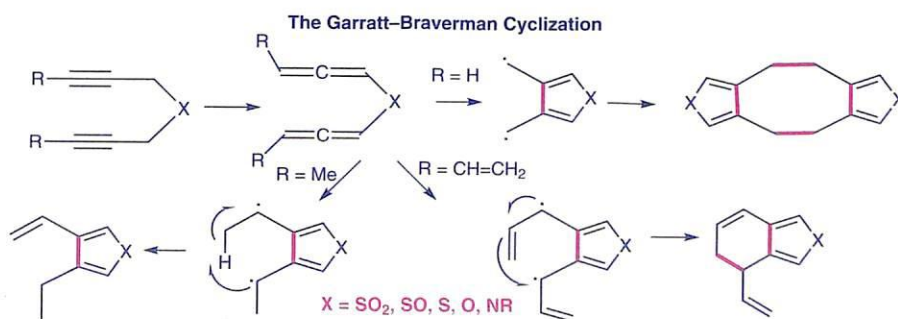
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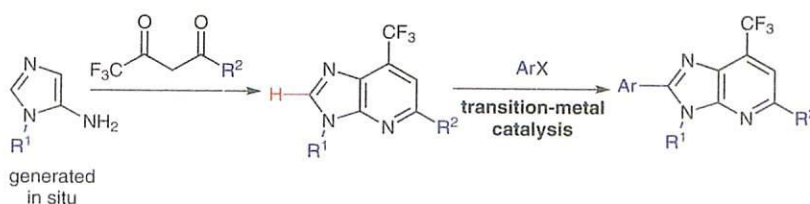
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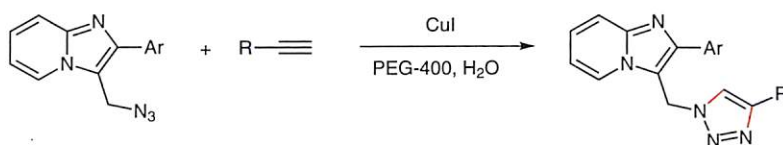
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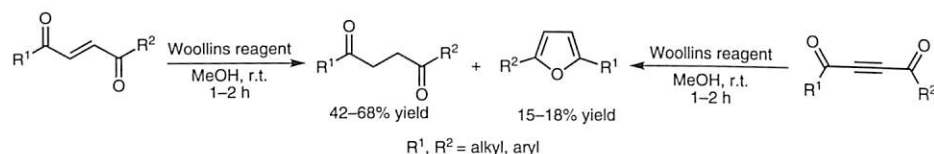
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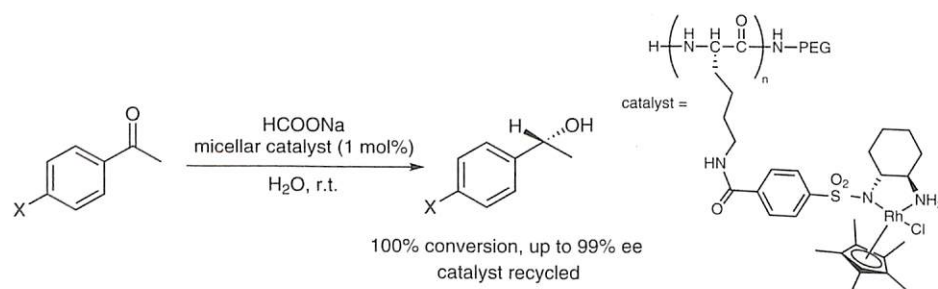
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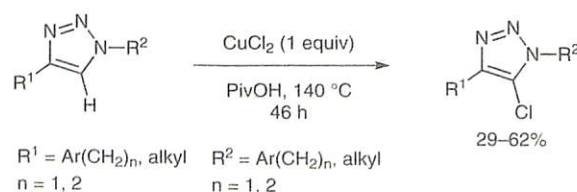
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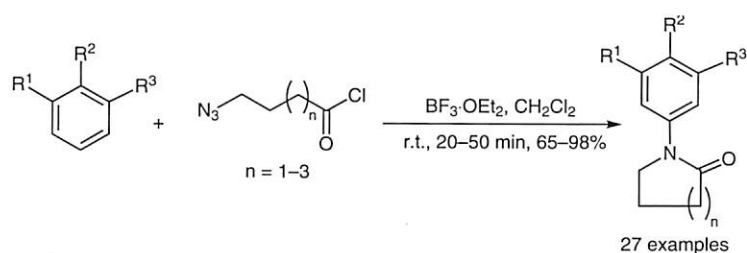
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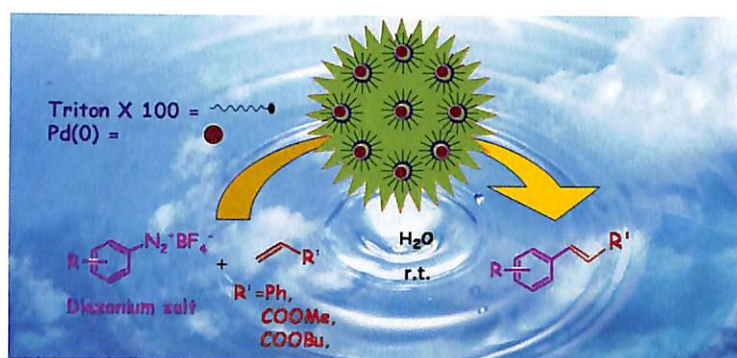
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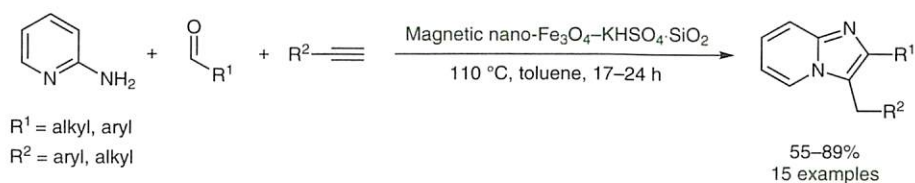
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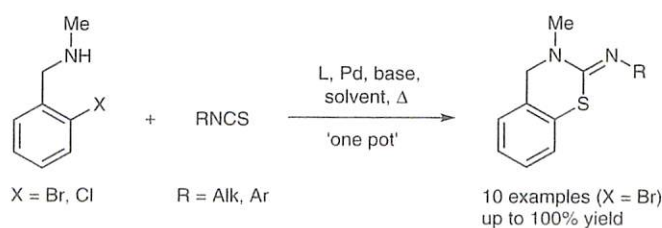
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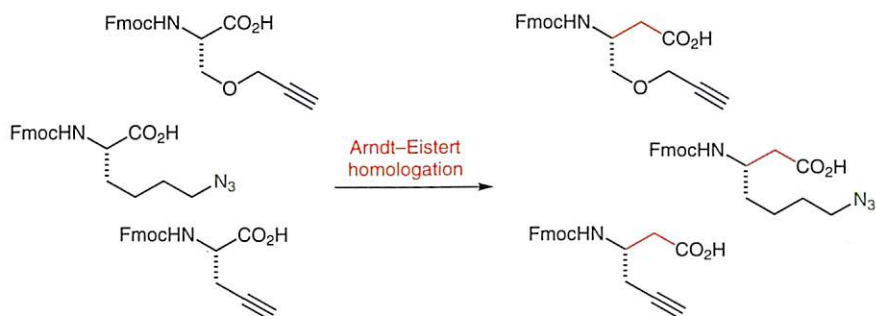


- 2639 F. Lach*

One-Pot Thiourea Formation–Palladium-Catalyzed Cyclization Sequence to 3,4-Dihydro-2*H*-1,3-benzothiazine-2-imines from 2-Halo *N*-Methylbenzylamine – Scope and Limitations



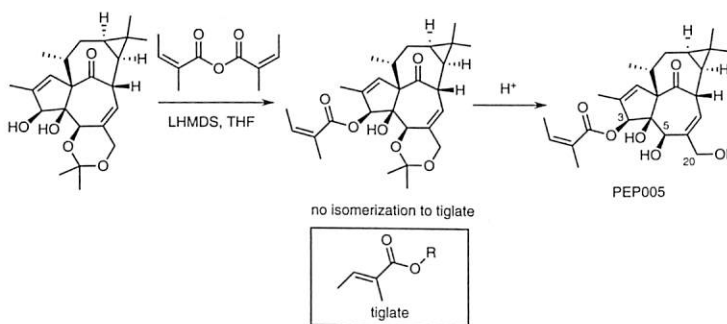
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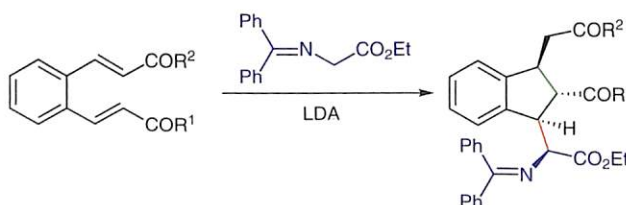
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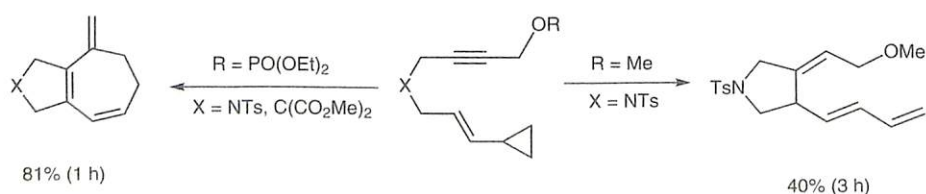
Stereoselective Synthesis of Indanylglycine Derivatives by a Tandem Michael–Michael Reaction



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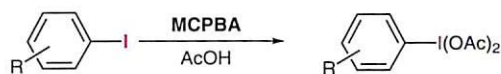
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Palladium-Catalyzed Cyclization of Cyclopropyl-Substituted 1,6-Enynes to 5,7-Bicyclic Trienes or Monocyclic Trienes Depending upon the Leaving Group



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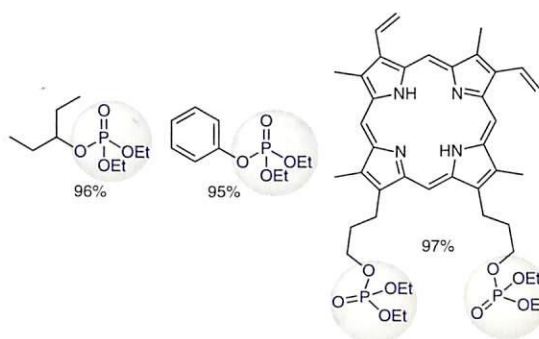
Simple and Practical Method for Preparation of [(Diacetoxy)iodo]arenes with Iodoarenes and *m*-Chloroperoxybenzoic Acid



R = 4-Me, H, 4-O₂N, 3-O₂N, 4-NC, Br, MeO₂C,
TsO⁻Me₃N⁺CH₂, 2-HO₂C, 3,5-(F₃C)₂

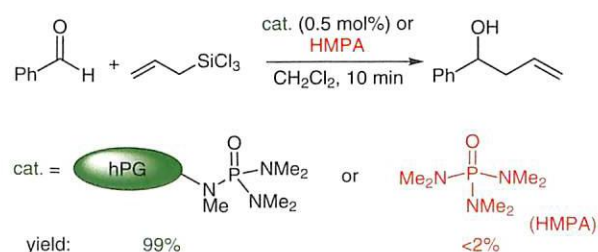
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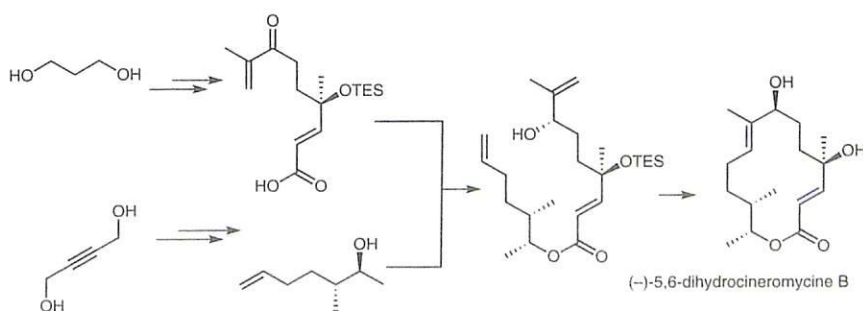
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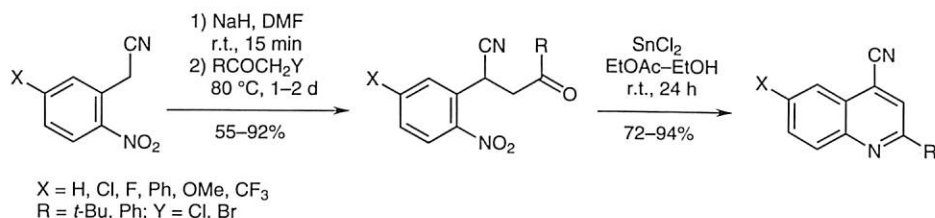
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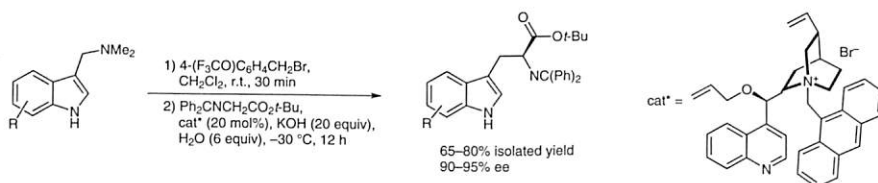
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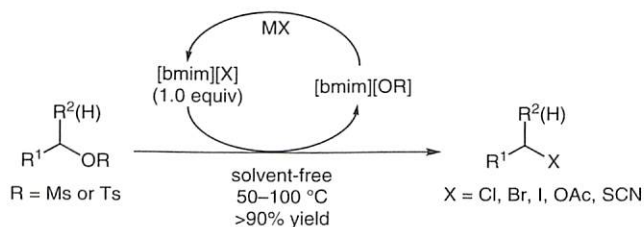
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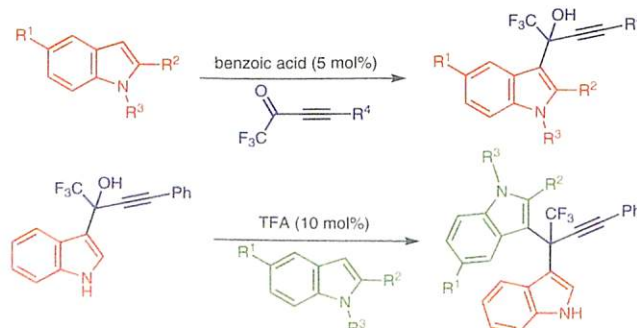
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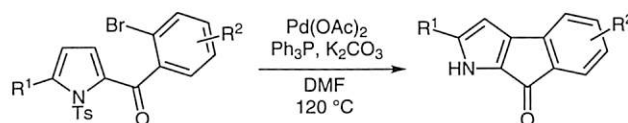
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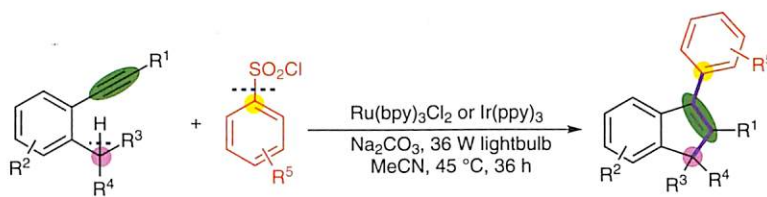
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2707 J.-D. Xia
G.-B. Deng
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P. Xie
J.-H. Li*

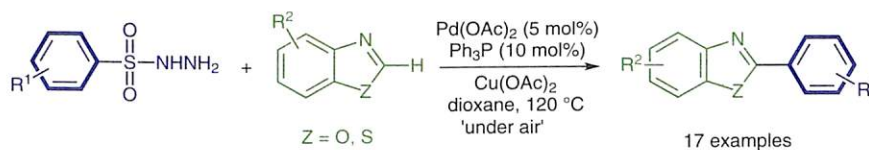
Reusable Visible Light Photoredox Catalysts; Catalyzed Benzylic C(sp³)-H Functionalization/Carbocyclization Reactions



mild and general: 34 examples, up to 94% yield

2714 O. Y. Yuen
C. M. So
W. T. Wong
F. Y. Kwong*

Direct Oxidative C-H Arylation of Benzoxazoles with Arylsulfonyl Hydrazides Promoted by Palladium Complexes



2719 Compiled by
V. Bizet

N-Fluorobenzenesulfonimide

2721 Compiled by
U. P. Singh

PEG 400

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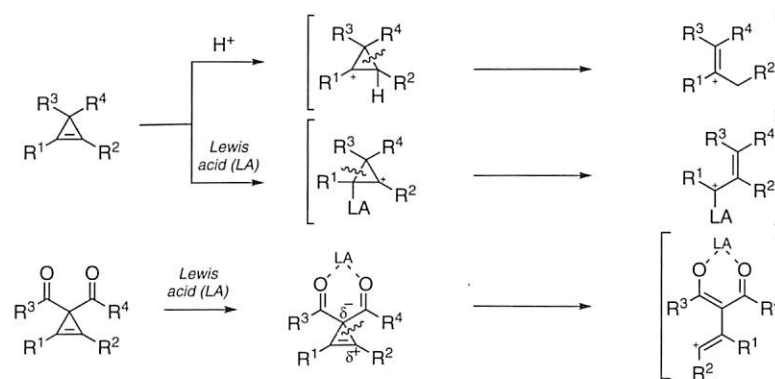
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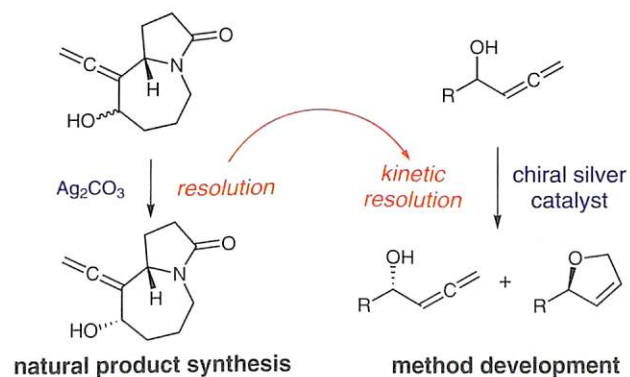
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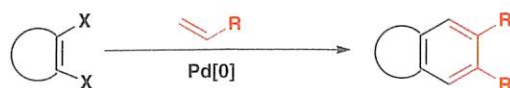
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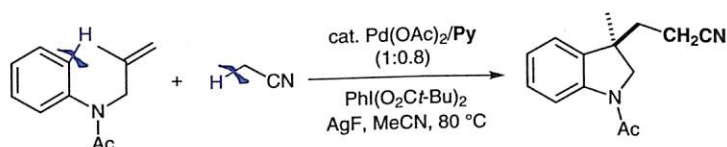
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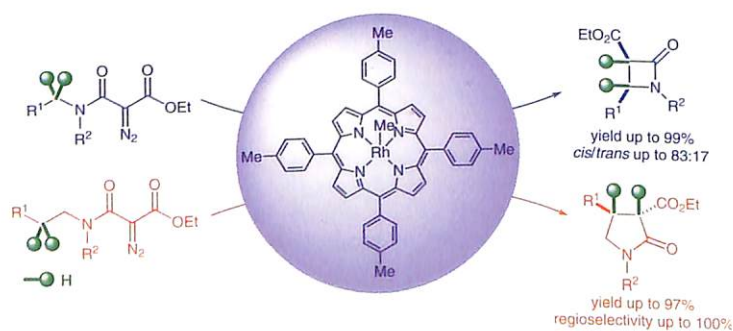
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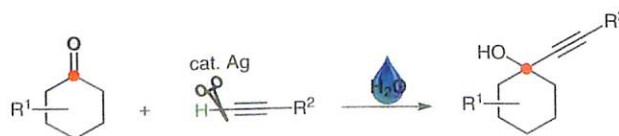
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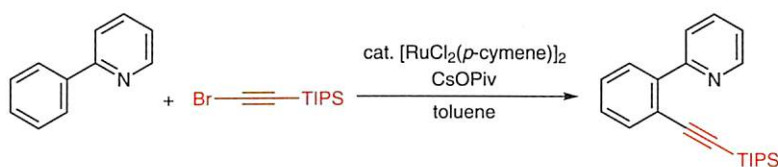
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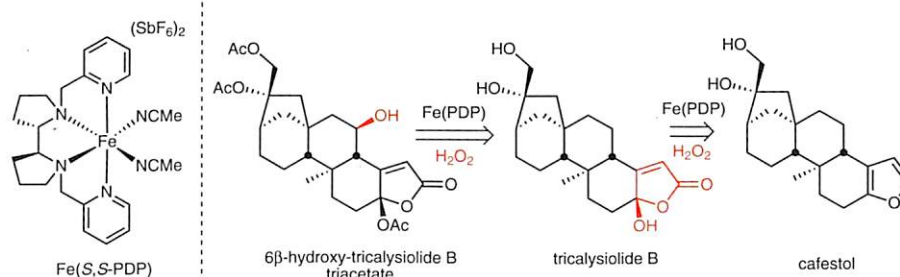
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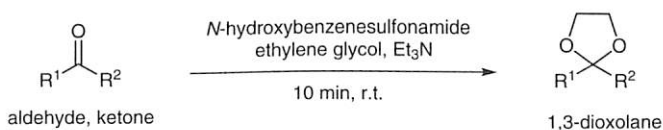
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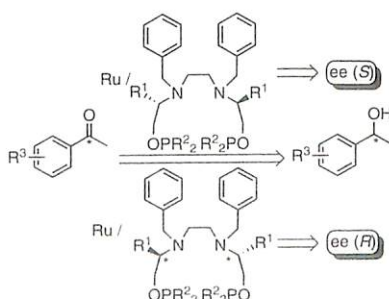
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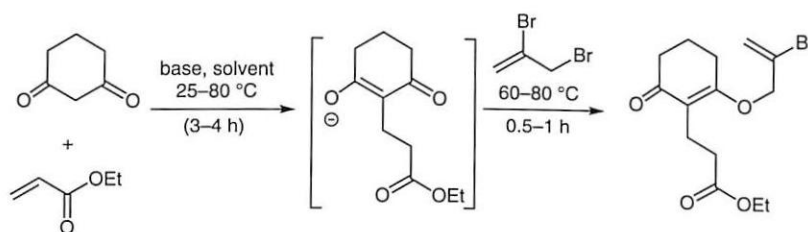
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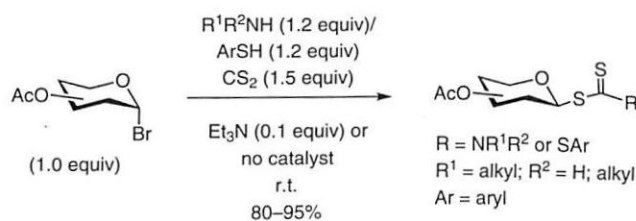
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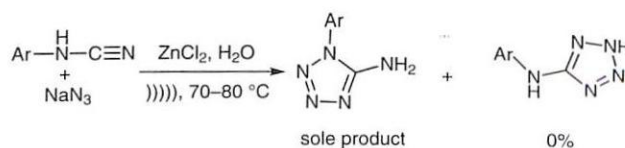
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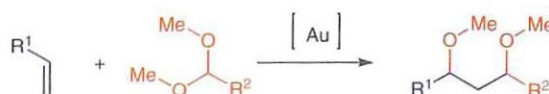
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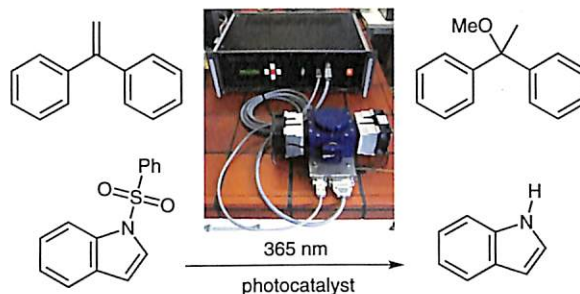
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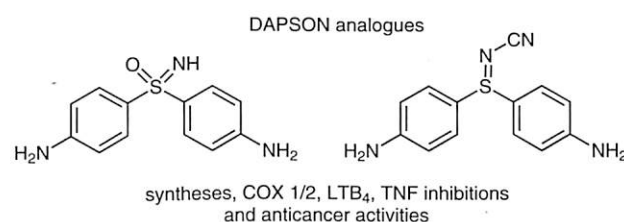
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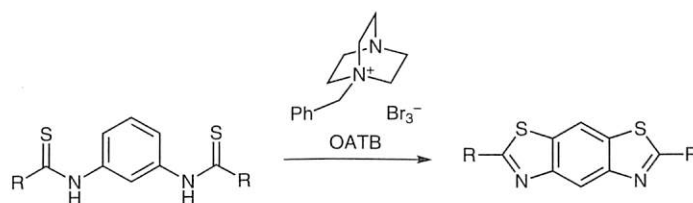
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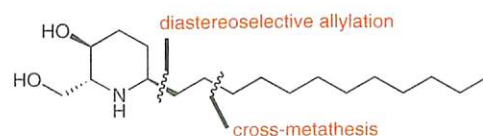
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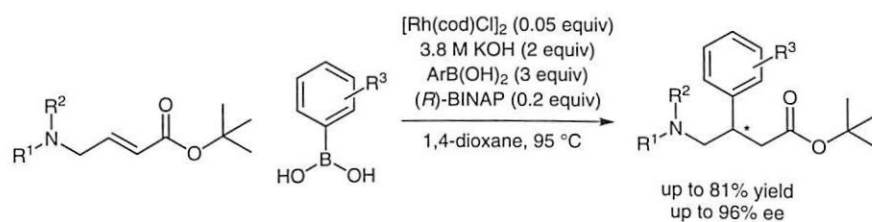
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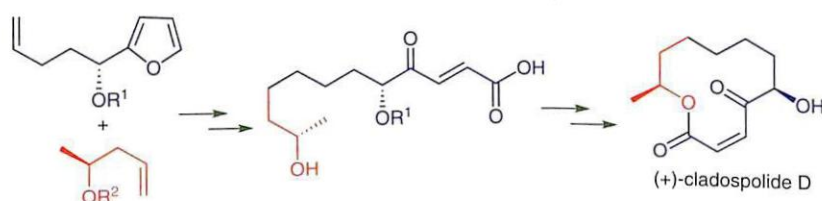
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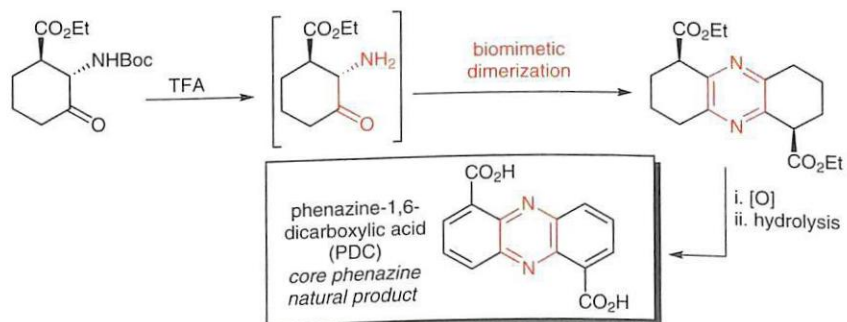
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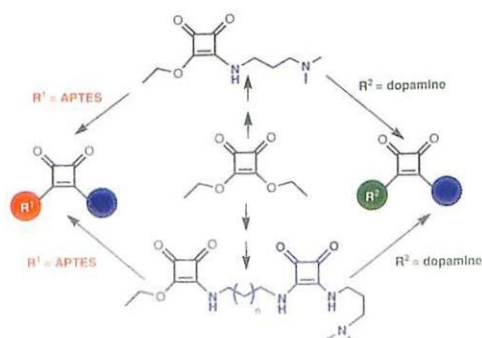
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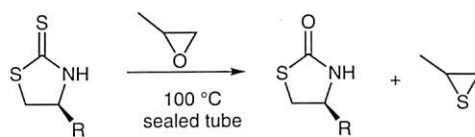
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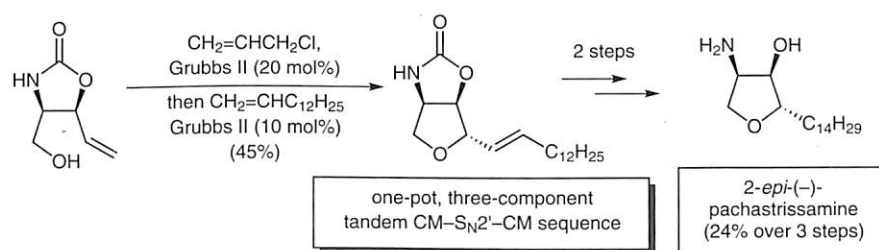
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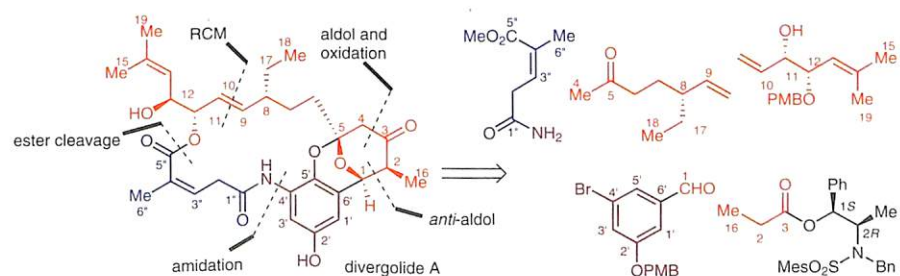
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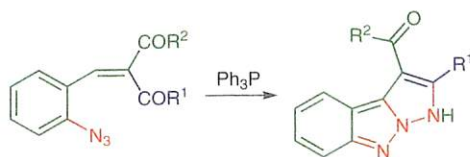
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2850 F.-F. Zhao
Y.-M. Yan
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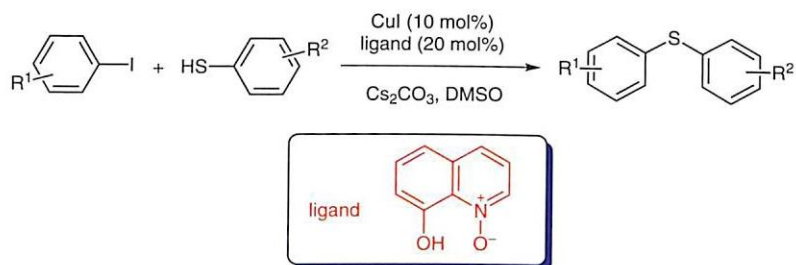
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D. Zhang*
S. Jiang*

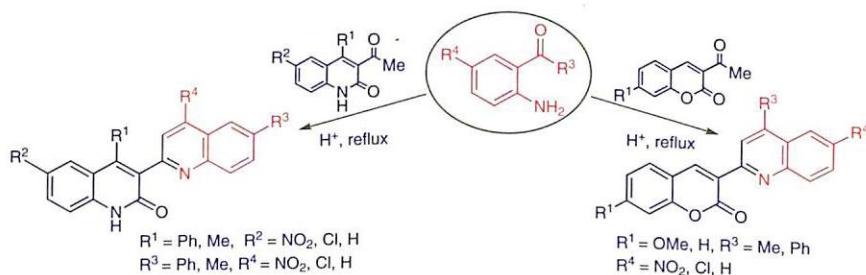
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A Convenient Method of Facilitating Aryl–Aryl Bond-Formation Reactions in the Synthesis of Biquinoline- and Quinoline-Bearing Chromene Derivatives



2865

Compiled by
C. Tidei

Phenylselenenyl Zinc Halides

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Compiled by
M. Dejmek

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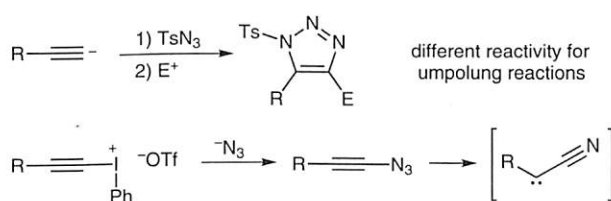
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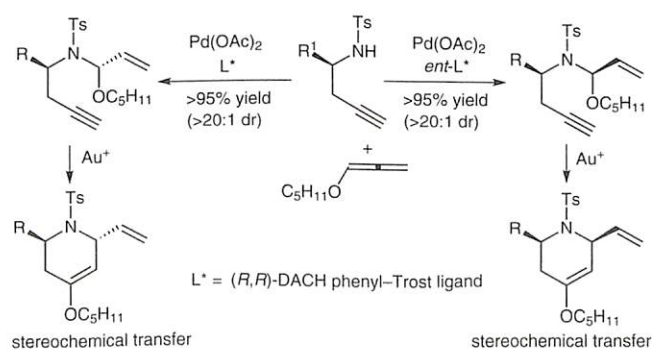
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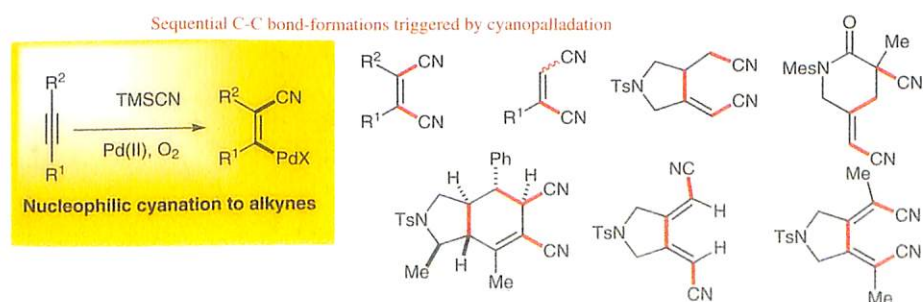
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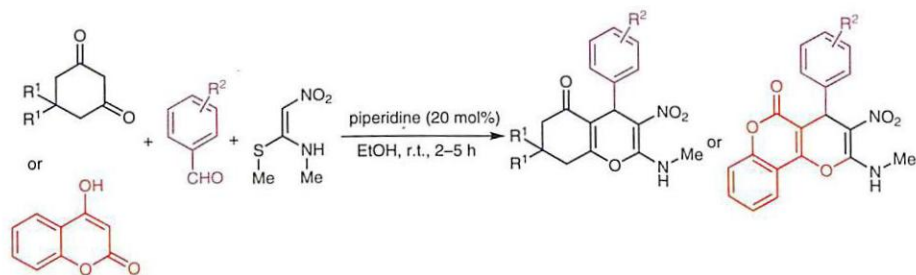


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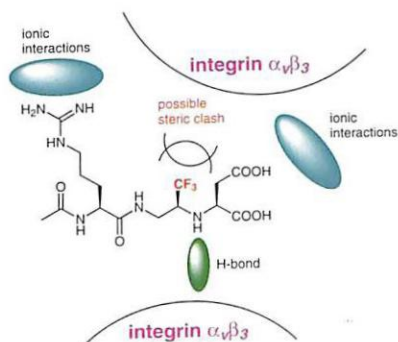
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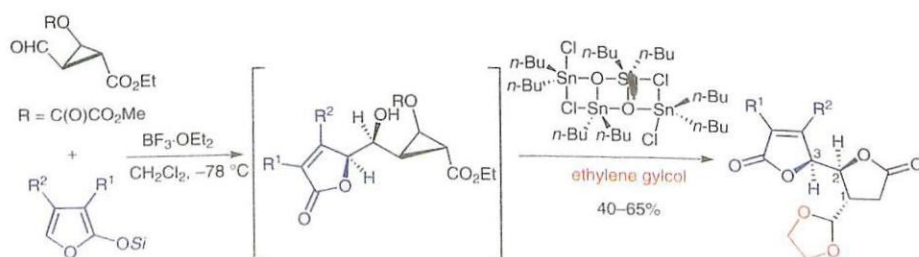
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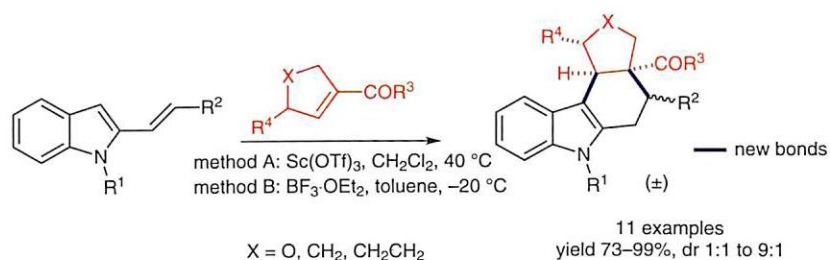


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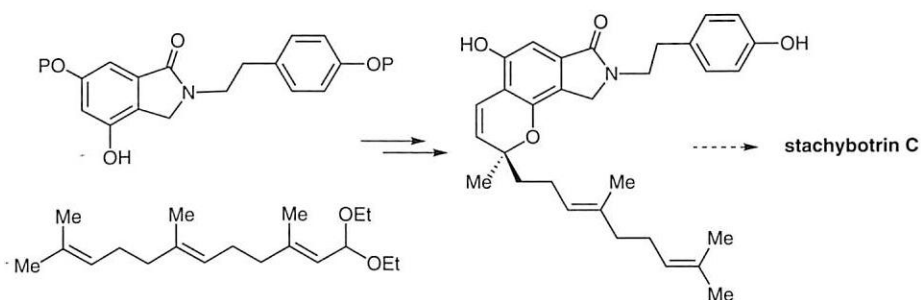
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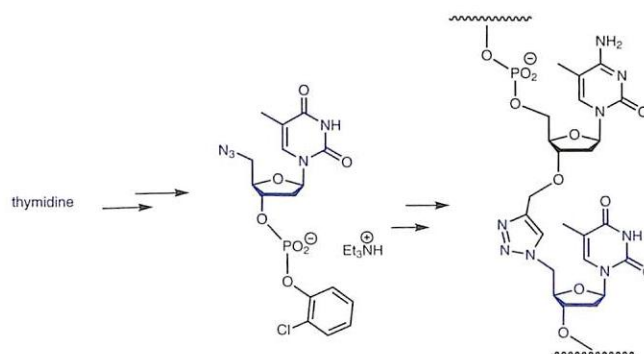
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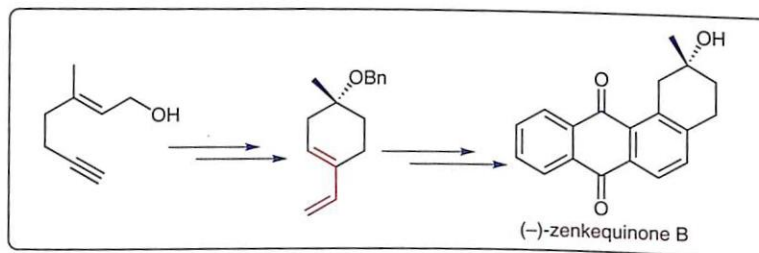
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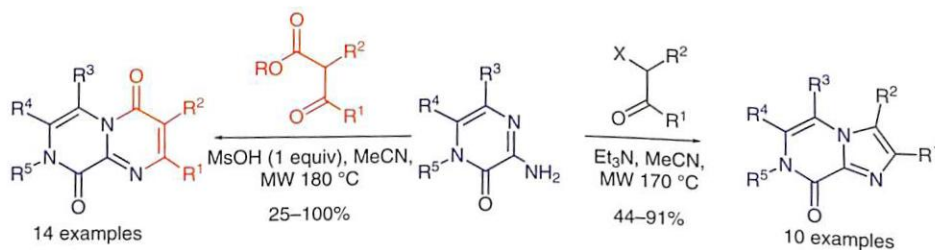
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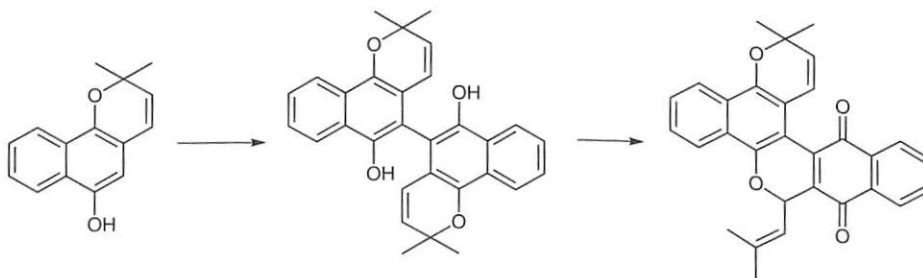
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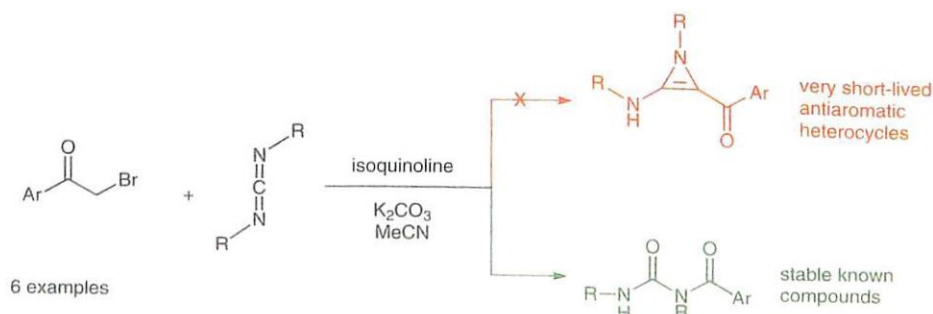
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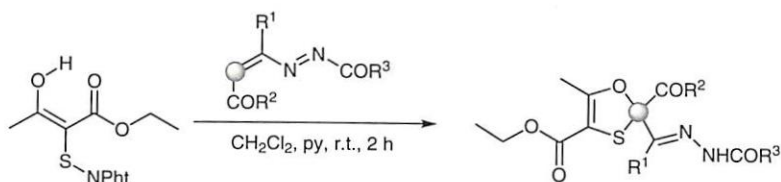
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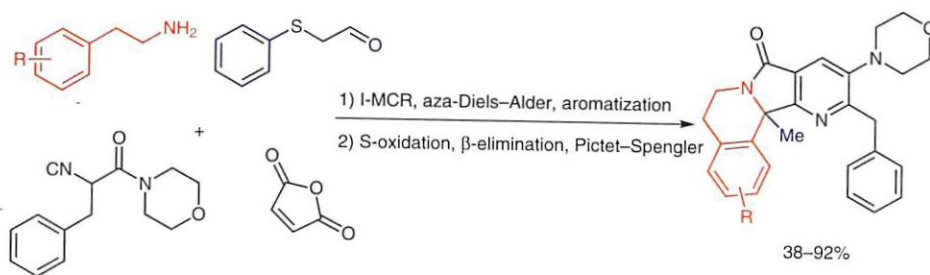
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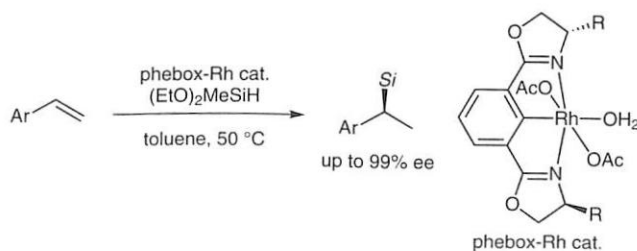
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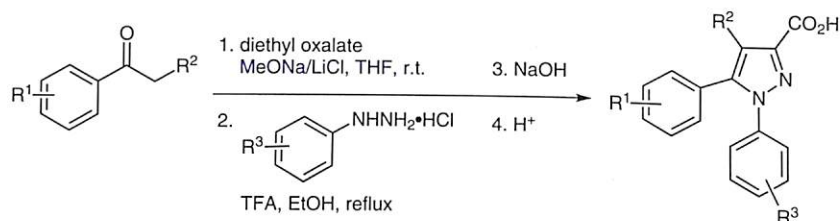
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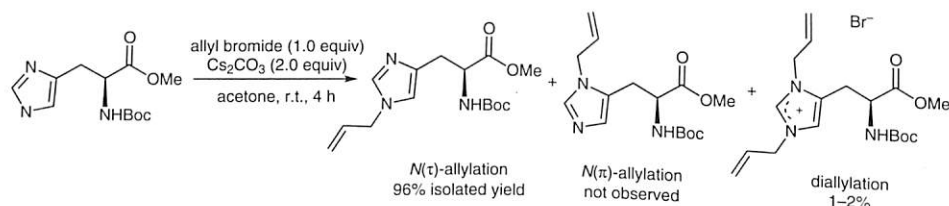
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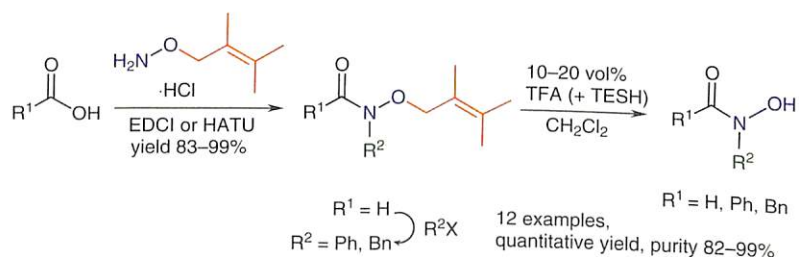
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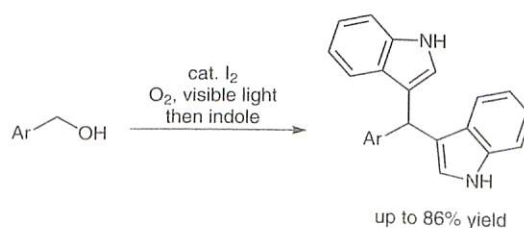
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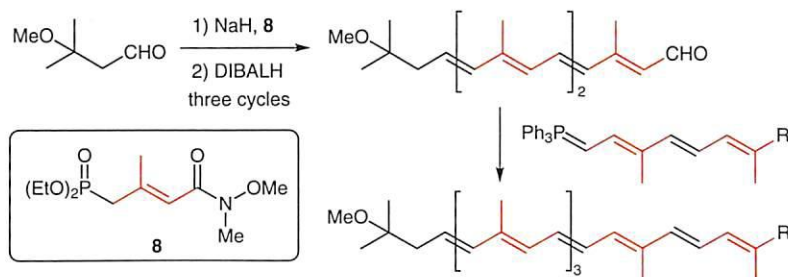
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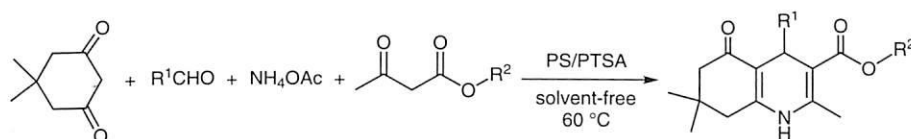
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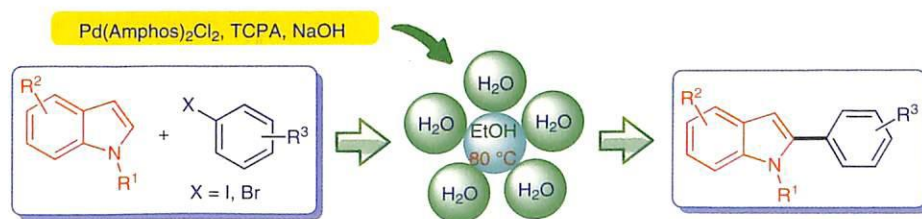
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Potassium Thioacetate

2999 Compiled by **Hendrickson Reagent (Triphenylphosphonium Anhydride Trifluoro-**
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