

# SYNLETT

Accounts and Rapid Communications in Synthetic Organic Chemistry

## Synpacts

*Y.-M. Li, S.-D. Yang*

New Strategies for Transition-Metal-Catalyzed C–P Bond Formation

*L. Zhang, Z. Huang*

Iron-Catalyzed Alkene Hydroboration with Pinacolborane

## Accounts

*C. J. Whiteoak, A. W. Kleij*

Catalyst Development in the Context of Ring Expansion–Addition of Carbon Dioxide to Epoxides to Give Organic Carbonates

*F. Rodríguez, F. J. Fañanás*

Constructing Molecular Complexity from Alkynol Derivatives: A Journey from Fischer Carbene Complexes to Tandem Catalysis with Gold and other Carbophilic Lewis Acids

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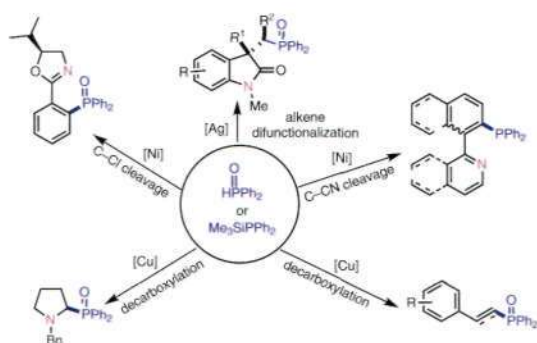
September 2, 2013



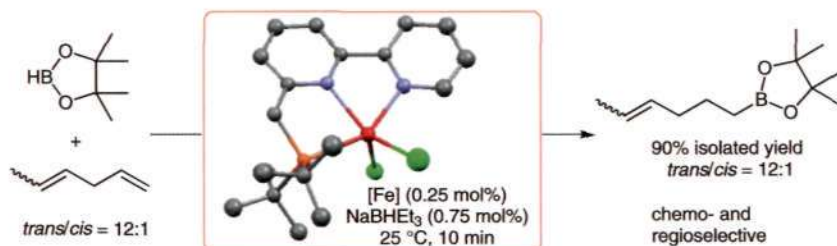
Thieme

1739 Y.-M. Li  
S.-D. Yang\*

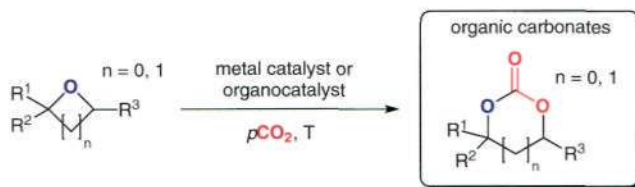
## New Strategies for Transition-Metal-Catalyzed C–P Bond Formation

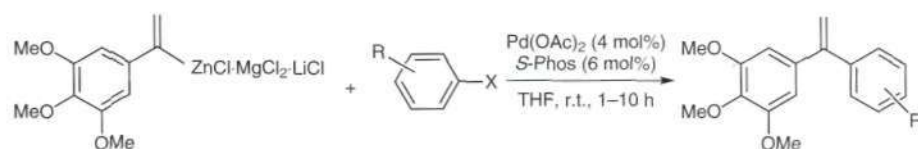
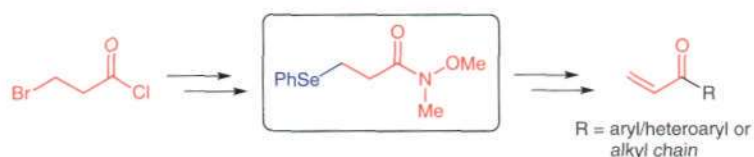
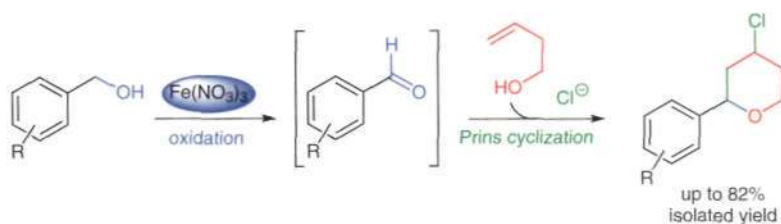
1745 L. Zhang  
Z. Huang\*

## Iron-Catalyzed Alkene Hydroboration with Pinacolborane

1748 C. J. Whiteoak  
A. W. Kleijj\*

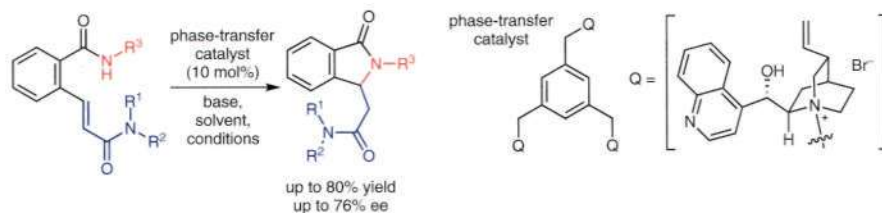
## Catalyst Development in the Context of Ring Expansion—Addition of Carbon Dioxide to Epoxides to Give Organic Carbonates



1757 F. Rodríguez\*  
F. J. Fañanás\***Constructing Molecular Complexity from Alkynol Derivatives: A Journey from Fischer Carbene Complexes to Tandem Catalysis with Gold and other Carbophilic Lewis Acids**1772 Y. B. Malysheva  
S. Y. Buchvalova  
E. V. Svirshchevskaya  
V. V. Fokin  
A. Y. Fedorov\***Negishi Cross-Coupling Reaction as a Route to Isocombretastatin**1777 P. K. Tiwari  
I. S. Aidhen\***Weinreb Amide Based Building Block for Convenient Access to Vinyl Ketones**1781 F. Fache\*  
M. Muselli  
O. Piva\***Sequential Oxidation–Prins Reaction Processes Induced by the Same Iron Salt: Direct Access to 2-Aryl-4-Chloro-Tetrahydropyrans from Benzyl Alcohols**

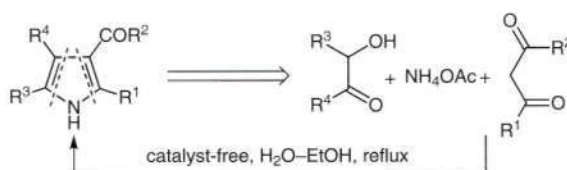
- 1785 R. Sallio  
S. Lebrun  
N. Schifano-Faux  
J.-F. Goossens  
F. Agbossou-Niedercom  
E. Deniau\*  
C. Michon\*

### Enantioenriched Isoindolinones from Chiral Phase-Transfer-Catalyzed Intramolecular Aza-Michael Reactions



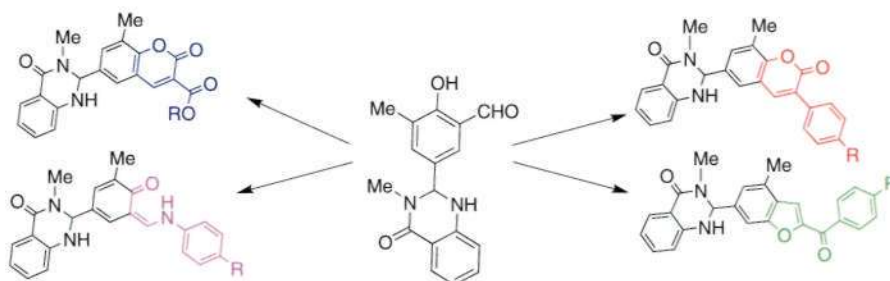
- 1791 F. Tamaddon\*  
F. Amirpoor

### Improved Catalyst-Free Synthesis of Pyrrole Derivatives in Aqueous Media



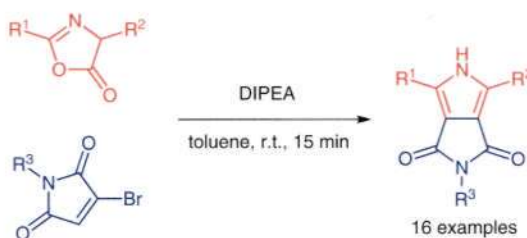
- 1795 K. V. Sashidhara\*  
G. R. Palnati  
R. P. Dodda  
S. R. Avula  
P. Swami

### One-Pot Regioselective Synthesis of Imidazole and 2,3-Dihydroquinazolinone Derivatives – An Easy Access to ‘Nature-Like Molecules’; Part XIII in the Series: ‘Studies on Novel Synthetic Methodologies’



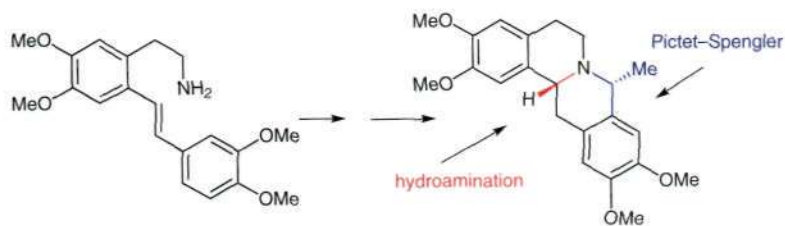
- 1801 G. Martinez-Ariza  
J. Dietrich  
F. De Moliner  
C. Hulme\*

### A Tandem [3+2] Cycloaddition–Elimination Cascade Reaction to Generate Pyrrolo-[3,4-c]pyrrole-1,3-diones



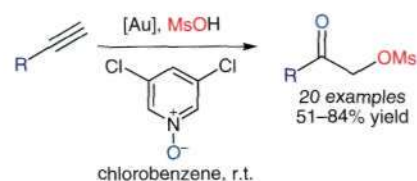
- 1805 A. Pouilhès  
J.-P. Baltaze  
C. Kouklovsky\*

### An Approach to the Synthesis of Tetrahydroisoquinoline Alkaloids by Alkene Hydroamination: Synthesis of Coralydine



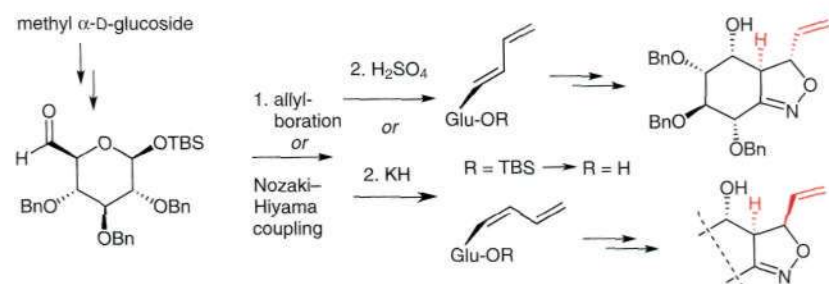
- 1809 L. Xie  
Z. Liang  
D. Yan  
W. He\*  
J. Xiang\*

### Gold-Catalyzed Intermolecular Oxidation of Terminal Alkynes: Simple and Efficient Synthesis of $\alpha$ -Mesyloxy Ketones



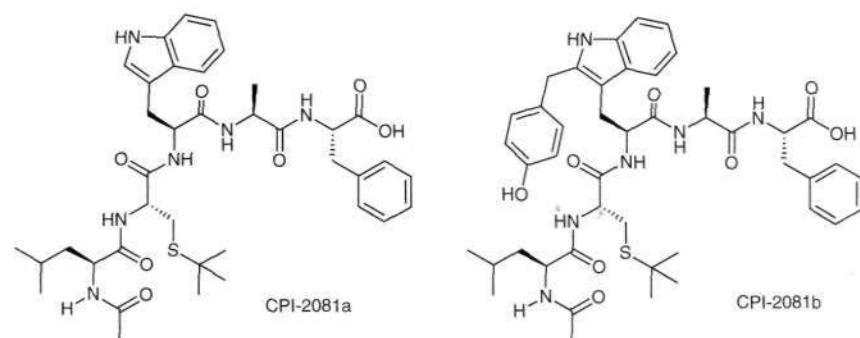
- 1813 G. Witkowski  
S. Jarosz\*

### New Approach to Sugar Dienes; Useful Building Blocks for the Synthesis of Bicyclic Derivatives



- 1818 A. M. Heapy  
M. Dragunov  
M. A. Brimble\*

### Synthesis of the Cysteine Protease Inhibitors CPI-2081a and CPI-2081b Using a Controlled SPPS Byproduct Forming Reaction



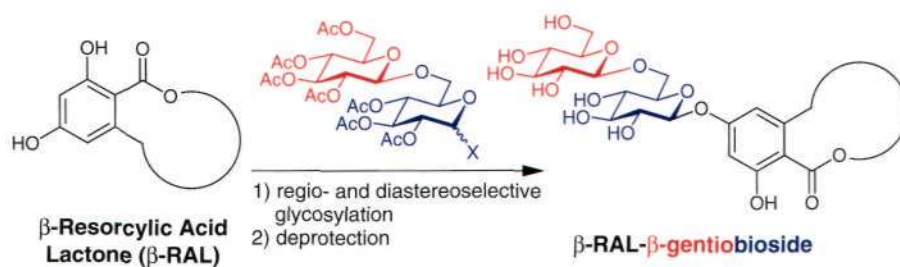
1825 A. Alizadeh\*  
V. Saberi  
J. Mokhtari

### A Simple One-Pot Procedure for the Synthesis of 1,2,4-Triazolo[1,5-*a*]pyridines via Pseudo Five-Component Reactions Catalyzed by Molecular Iodine



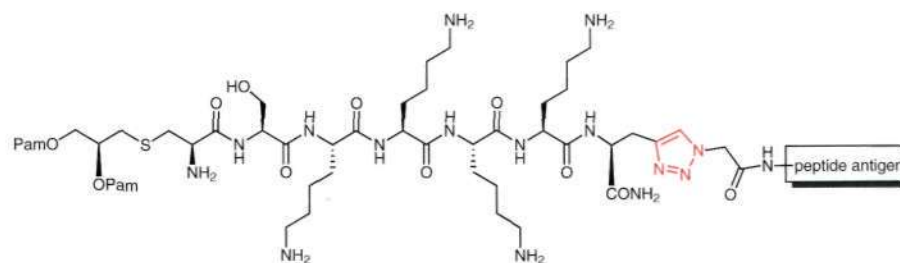
1830 J. Weber  
H. Mikula\*  
P. Fruhmann  
C. Hametner  
E. Varga  
F. Berthiller  
R. Krska  
J. Fröhlich

### Gentiobiosylation of $\beta$ -Resorcylic Acid Esters and Lactones: First Synthesis and Characterization of Zearalenone-14- $\beta$ ,D-Gentiobioside



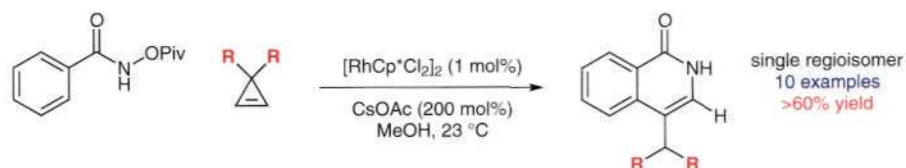
1835 T. H. Wright  
A. E. S. Brooks  
A. J. Didsbury  
J. D. McIntosh  
K. Burkert  
H. Yeung  
G. M. Williams  
P. R. Dunbar  
M. A. Brimble\*

### An Improved Method for the Synthesis of Lipopeptide TLR2-Agonists Using Click Chemistry



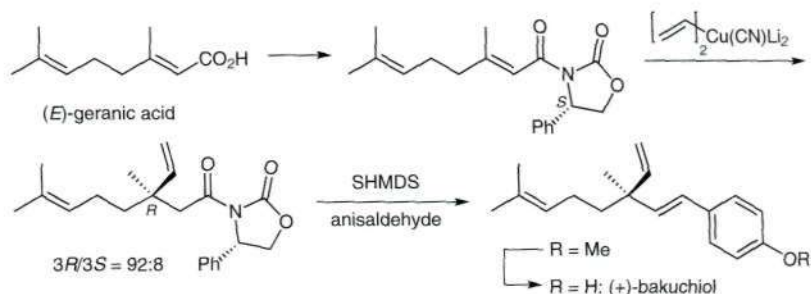
1842 T. K. Hyster  
T. Rovis\*

### Rhodium(III)-Catalyzed C–H Activation Mediated Synthesis of Isoquinolones from Amides and Cyclopropanes



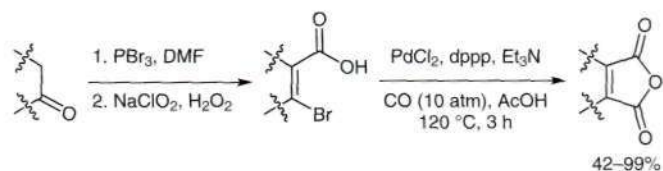
1845 T. Esumi\*  
C. Yamamoto  
Y. Fukuyama

### A Short Synthesis of (+)-Bakuchiol



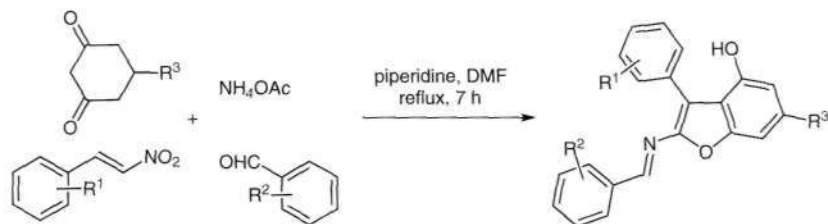
1848 Y. K. Bae  
C. S. Cho\*

### Palladium-Catalyzed Carbonylative Cyclization of $\beta$ -Bromo- $\alpha,\beta$ -unsaturated Carboxylic Acids Leading to Maleic Anhydrides



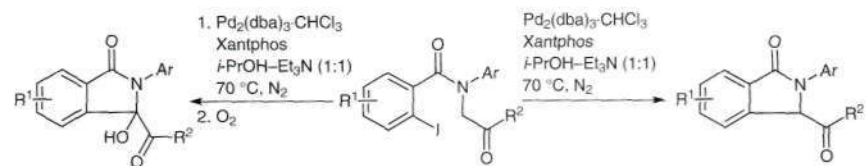
1851 Y. Li  
H. Liu  
L. Sun  
J. Liu  
Z. Xue  
J. Yao  
C. Wang\*

### Novel Synthesis of 3-Aryl-4-hydroxybenzofurans via Four-Component Reaction from Substituted Nitrostyrenes, Aromatic Aldehydes, Cyclohexan-1,3-diones, and Ammonium Acetate



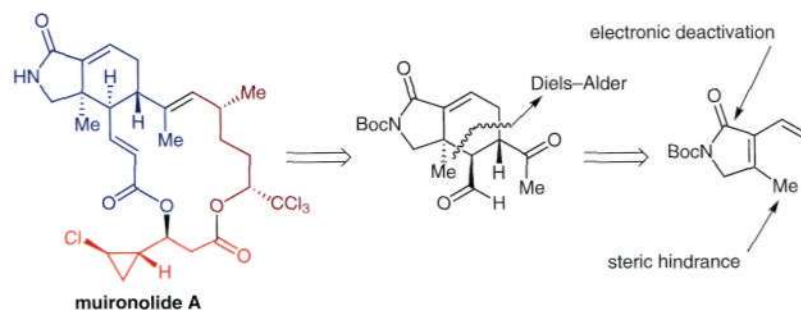
1856 W. Chen\*  
L. Jin  
Y. Zhu\*  
X. Cao  
L. Zheng  
W. Mo

### Palladium-Catalyzed Intramolecular Cyclization of 2-Iodobenzamides: An Efficient Synthesis of 3-Acyl Isoindolin-1-ones and 3-Hydroxy-3-acylisoindolin-1-ones



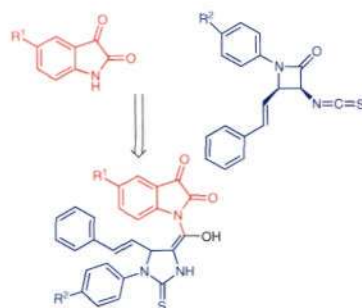
1861 C. E. Shaner  
G. M. Ferrence  
T. A. Mitchell\*

### Synthetic Efforts toward the Isoindolinone Core of Muironolide A



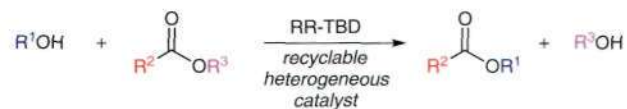
1865 Nisha  
P. Singh  
D. T. Hendricks  
K. Bisetty  
V. Kumar\*

### $\beta$ -Lactam-Syntho-Interceded Synthesis of Isatin-Imidazolidine-2-thione Conjugates with Structural Validation using Molecular Dynamic Simulations and Cytotoxic Evaluation



1870 Y.-C. Yang  
D. Y. C. Leung\*  
P. H. Toy\*

### Rasta Resin-TBD as a Reusable Catalyst for Transesterification Reactions



1875 Compiled by  
A. Matusiak

### Bromotrimethylsilane (TMSBr)