Deployment of Aziridines for the Synthesis of Alkaloids and Their Derivatives

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Other methods

Synthetic Approaches to Nitro-Substituted Isoxazoles

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Silicon-Tethered Frameworks as Directing Groups for Carbon–Carbon and Carbon–Heteroatom Bond Formation

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Palladium-Catalyzed Formation of Substituted Tetrahydropyrans: Mechanistic Insights and Structural Revision of Natural Products

F. Della-Felice
F. F. de Assis
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Practical Synthesis of Precursors of Cyclohexyne and 1,2-Cyclohexadiene

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From Bioactive Pyrrolidino[3,4-c]pyrrolidines to more Bioactive Pyrrolidino[3,4-b]pyrrolidines via Ring-Opening/Ring-Closing Promoted by Sodium Methoxide

**RING-OPENING/RING-CLOSING EPIMERIZATION**

\[
\text{NaOMe (1.2 equiv)} \rightarrow \text{MeOH (reflux)} \rightarrow \text{36 h} \rightarrow \text{11 examples} \rightarrow \text{40–98% antibacterial and antymycobacterial agents}
\]

**Paper** 1565

Palladium-Catalyzed C–H Bond Monofluorination of 2-Arylbenzo[d]oxazinone Using Nitrate as Crucial Promoter

**Paper** 1578

One-Pot Synthesis of N-Arylated Amines by Hydroaminomethylation of 2,5-Dihydrofuran with Aromatic Amines

**Paper** 1585
**An Efficient Catalytic Amidation of Esters Promoted by N-Heterocyclic Carbenes**

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**Nickel-Catalyzed Decarboxylative Coupling of Alkynyl Carboxylates with Aryl Tosylates and Mesylates**

A. Howard
S. Klemann
S. Kolling
K. Little
E. Plasek
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**A Facile Synthetic Approach to Nonracemic Substituted Pyrroloallolochininoids Starting from Natural Colchicine**

E. S. Shcheglevina
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H.-G. Schmalz
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1,8,10-Substituted Anthracenes – Hexafunctional Frameworks via Head-to-Tail Photodimerisation

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J.-H. Lamm
J.-H. Peters
B. Neumann
H.-G. Stammler
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Oxidative Dearomatization and Sigmatropic 1,3-Acyl Shift in Excited State: Aromatics to Embellished cis-Hydrindanes

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Morpholin-2-one Derivatives via Intramolecular Acid-Catalyzed Hydroamination

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Selective ortho-Metalation of a Fluoroarene with Knochel–Hauser Base and Reactions with Various Electrophiles

M. Baenziger*  
S. Eswaran  
Y. Jiang  
G. Kasinathan  
Novartis Pharma AG, Switzerland

Selective C5-metalation with electrophile E

8 examples  
high regioselectivity  
39–87% yield

C3-Allylation of Indoles via an Iridium-Catalyzed Branch-Selective Ring-Opening Reaction of Vinylvyclopropanes

L. Yu  
Z.-Q. Zhu  
M. Sun  
G.-J. Mei*  
F. Shi*  
Jiangsu Normal University,  
P. R. of China

23 examples  
up to 95% yield

Copper-Catalyzed Synthesis of Dibenzo[b,f]imidazo[1,2-d][1,4]oxazepine Derivatives via a Double Ullmann Coupling Reaction

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Z.-H. Li  
J.-Q. Liu*  
X.-S. Wang*  
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double Ullmann coupling  
20 examples, 79–93% yield
**Synthesis**

*Synthesis* 2019, 51, 1669–1679
DOI: 10.1055/s-0037-1610676

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**Lewis Acid Catalyzed Regio- and Diastereoselective Synthesis of Spiroisoxazolines via One-Pot Sequential Knoevenagel Condensation/1,3-Dipolar Cycloaddition Reaction**

- One-pot synthesis
- Gram scale
- Broad synthetic application
- Broad substrate scope
- Mild reaction conditions
- Cheap Lewis acid
- High diastereo- and regioselectivity
- 10 examples (64–84%)
- 5 examples (74–83%)
- New ligands for C–C coupling

**Palladium-Catalyzed Carbonylation of Coumarin C(sp²)–H Bonds: A New Entry to Arylcoumarin Ketones**

**S. Mirzaei**
**S. Rajai-Daryasarei**
**M. Soheilizad**
**R. Kabiri**
**S. Ansari**
**M. Shabanian**
**R. Pashazadeh**
SOHA Pharmaceutical Company, Iran

- 27 examples 68–88% yield
- 5 examples 70–78% yield