Synthetic Approaches to Contemporary Drugs that Contain the Cyclopropyl Moiety

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Recent Advances in Nickel-Catalyzed Three-Component Difunctionalization of Unactivated Alkenes

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**Recent Developments in Photochemical and Electrochemical Decarboxylative C(sp3)–N Bond Formation**

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**Controlled Reduction of Nitriles by Sodium Hydride and Zinc Chloride**

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**Copper-Catalyzed Tandem Dehydrocyanation and [3+2] Cycloaddition Reactions of Phenacylmalononitriles: Regioselective Synthesis of Functionalized 4-Benzoyl-5-cyanopyrazoles under Mild Conditions**

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1,3-Dipolar Cycloaddition of 3-Amino Oxindole-Based Azomethine Ylides and O-Vinylphosphonylated Salicylaldehydes for Diastereoselective Synthesis of Oxindole Spiro-P,N-polycyclic Heterocycles

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Synthesis of 4-Nitroisoxazoles via NO/NO2-Mediated Heterocyclization of Aryl-Substituted α,β-Unsaturated Ketones

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Palladium-Catalyzed ortho-Monoacylation of Arenes with Aldehydes via 1,2,4-Benzotriazine-Directed C–H Bond Activation

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One-Pot Copper-Catalyzed Three-Component Reaction of Sulfonyl Azides, Alkynes, and Allylamines To Access 2,3-Dihydro-1H-imidazo[1,2-α]indoles

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One-Pot process
Four C–N bonds being constructed
High step-economy

Synthesis of 4-Vinyl-1,2,3,4-tetrahydroisoquinoline from N-Tethered Benzyl-Alkenol Catalyzed by Indium(III) Chloride: Formal Synthesis of (±)-Isocyclcodenezine

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(±)-Isocyclcodenezine

Facile Synthesis of Novel Benzoylthiophene C-Nucleoside Analogues via Coupling of Sugar Alkynes, Aroyl Chlorides, and 1,4-Dithiane-2,5-diol

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28 examples, up to 89% yield
mild condition
one-pot procedure
Cyclization of Active Methylene Isocyanides with α-Oxodithioesters Induced by Base: An Expedient Synthesis of 4-Methylthio/Ethoxy-carbonyl-5-acylthiazoles

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KOH, EtOH+H₂O
0 °C to RT, 1 h
R₂ = Ts
Yield 75–86%
11 Examples

DBU, EtOH
0 °C to RT, 1 h
R₂ = CO₂Et
10 Examples
Yield 60–74%

R₁ = Aryl, hetaryl
R₂ = Ts, CO₂Et

R₁ = Aryl, hetaryl
R₂ = Ts, CO₂Et

MeS