An Improved Scalable Process for the Synthesis of (S,S)-DACH-Ph Trost Ligand

Syntheses of *Aristotelia* Alkaloids: Reflections in the Chiral Pool

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(-)-aristoquinoline configuration supported by bioactivity

aza-Prins cyclization

chiral pool monoterpenes

Ritter-like reaction

(-)-hobartine configuration proven by synthesis

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Palladium-Catalyzed Synthesis of Heterocyclic Ring Systems by Combination of Regioselective C–C with Twofold C–N Couplings

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Acetylenic Esters in Organic Synthesis

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Facile Synthesis of Benzo[c]chromen-6-ones via Base-Promoted Reaction of 4-Chloro-3-formylcoumarin and α,α-Dicyanoolefins

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An Efficient Route to Branched Allylsilanes through Copper-Catalyzed Allene Hydrosilylation Using Readily Available Silanes

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Late-Stage Functionalization for the Optimization of Reversible BTK Inhibitors

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DOI: 10.1055/s-0040-1719923

Divergent Thio/Selenolactonization of Styrene-Type Carboxylic Acids and Amides: Synthesis of Chalcogenated Isobenzofuran-1 (3H)-ones and Isochroman-1-ones

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Silver-Catalyzed, One-Pot, Three-Component Difunctionalization of Quinones: Synthesis of Indole-Functionalized p-Iminoquinone Derivatives

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**Diversity-Oriented Synthesis of Coumarin-Fused Cyclopentanones via a Nucleophilic Phosphine Controlled Cascade Reaction**

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![Chemical structure](image1)

- [3+2] cyclization
- Nucleophilic phosphine controlled cyclization
- High chemoselectivity & excellent diastereoselectivity
- Wide substrate scope & mild reaction conditions

28 examples  
31–92% yields  
> 20:1 dr

**An Improved Scalable Process for the Synthesis of (S,S)-DACH-Ph Trost Ligand**

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S. Radomkit  
Y. Xu  
S. C. Kosnik  
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Boehringer Ingelheim Pharmaceuticals, Inc., USA

![Chemical structure](image2)

- 1 kg scale
- Chromatography-free
- Easy isolation
- Reliable
- Scalable

80% yield, >99% ee

**Manganese-Catalyzed Synthesis of Imines from Primary Alcohols and (Hetero)Aromatic Amines**

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N. Viduedo  
A. S. Santos  
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![Chemical structure](image3)

- 28 examples
- Up to 99% yield
- Anilines and N-heterocyclic amines
- Compatible with EWG and EDG
**Bare Magnetite-Promoted Oxidative Hydroxylation of Arylboronic Acids and Subsequent Conversion into Phenolic Compounds**

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**Electrochemical Reduction of Aldehydes and Ketones for the Synthesis of Alcohols and Diols under Ambient Conditions**

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