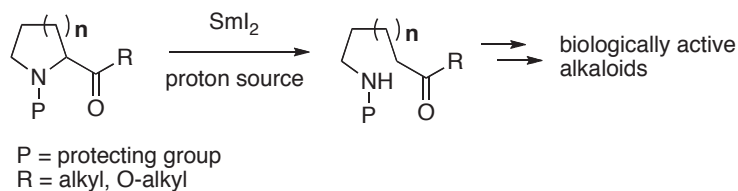


■ REVIEW

- 1 **Development of Samarium Diiodide-Promoted Reductive Carbon-Nitrogen Bond Cleavage Reaction of α -Amino Carbonyl Compounds: Application to the Synthesis of Biologically Active Alkaloids**

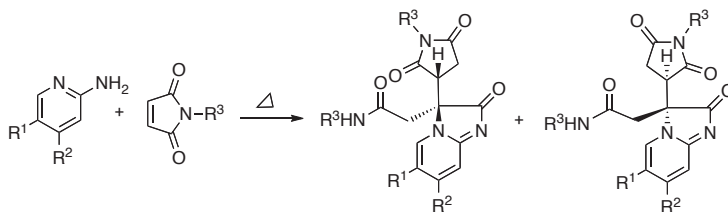
Toshio Honda*



Samarium Diiodide Bioactive Alkaloid Carbon-Nitrogen Bond Cleavage Reaction Chiral Synthesis Reductive Fragmentation

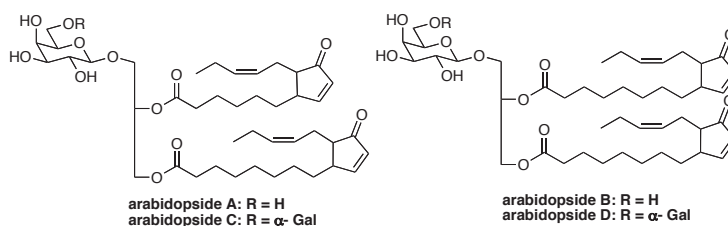
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- 47 **Facile Synthesis of 3-(Succinimid-3-yl)-2-oxo-2,3-dihydroimidazo[1,2-*a*]pyridine Derivatives by Sequential Intra- and Intermolecular Michael Reactions between 2-Aminopyridines and Maleimides**

 Tetsuro Shimo,* Tomoko Itoh, Yasutaka Araki,
 Tetsuo Iwanaga, Teruo Shinmyozu, and Kenichi Somekawa

 2-Oxo-2,3-dihydroimidazo[1,2-*a*]pyridine Michael Reaction 2-Aminopyridine Maleimide MOPAC-PM6 Molecular Simulation

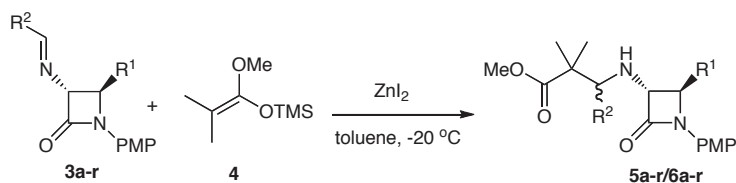
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- 57 **Structure-Activity Relationships on Senescence-Promoting Effect of Arabidopsides from *Arabidopsis thaliana***

 Haruyuki Nakajyo, Yosuke Hisamatsu, Nobuharu Goto,
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 Arabidopside Jasmonic Acid 12-Oxophytodienoic Acid *Arabidopsis thaliana* Senescence

63 Lewis Acid Promoted Diastereoselective Mannich Reaction of β -Lactam-Tethered Aldimines with 1-Methoxy-1-trimethylsilyloxy-2,2-dimethylethene

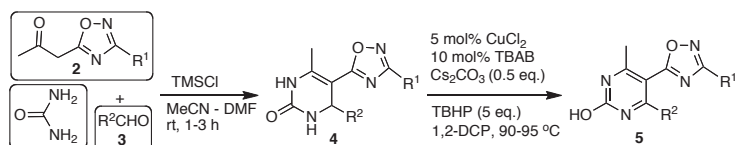
Katarina Vazdar, Davor Margetić, and Ivan Habuš*



β -Lactam Diastereoselective Mannich Reaction β -Amino Acid Ester Lewis Acid

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91 Synthesis of Novel 5-(Pyrimidin-5-yl)-1,2,4-oxadiazole Derivatives *via* a Three-Component Cycloaddition and Subsequent Oxidative Dehydrogenation

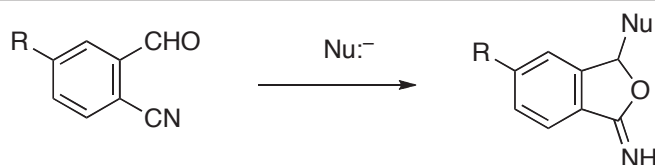
Tong-Hui Huang, Hai-Yang Tu,* Ming Liu, and Ai-Dong Zhang*



5-(Pyrimidin-5-yl)-1,2,4-oxadiazole Oxidative Dehydrogenation 3,4-Dihydropyrimidinone Pyrimidine 1,2,4-Oxadiazole

99 An Efficient Synthesis of 3-Substituted 3*H*-Isobenzofuran-1-ylidenamines by the Reaction of 2-Cyano-benzaldehydes with Organolithiums and Their Conversion into Isobenzofuran-1(3*H*)-ones

Kazuhiro Kobayashi,* Kota Matsumoto, and Hisatoshi Konishi



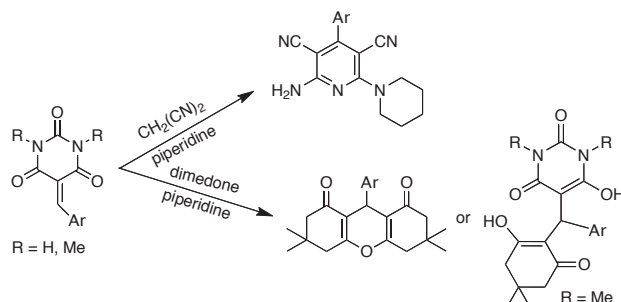
R = H, Cl, OMe

 Nu⁻ = organolithium, lithium enolate

3*H*-Isobenzofuran-1-ylidenamine Isobenzofuran-1(3*H*)-one Phthalide 2-Cyanobenzaldehyde Organolithium

107 An Experimental Study of Special Leaving Group Behavior in the Reaction of Arylidenebarbituric Acids with Carbon Nucleophiles

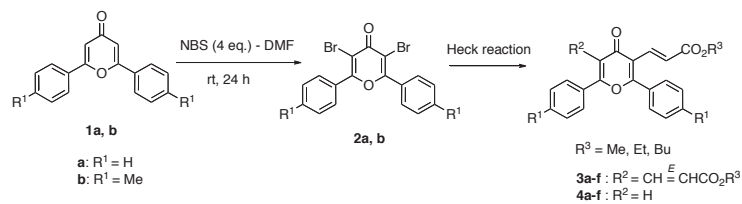
Mohammad A. Bigdeli, Enayatollah Sheikhsosseini,* Azizollah Habibi, and Saeed Balalaie



Polysubstituted Pyridine Arylidenebarbituric Acid Xanthene Dimedone *N,N*-Dimethylpyrimidinedione

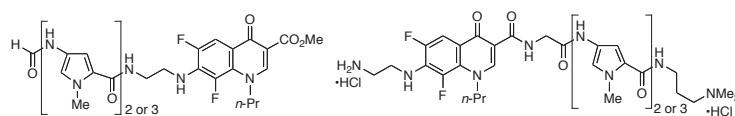
117 Heck Reactions in 2,6-Diaryl-3,5-dibromo-4-pyrones in the Presence of *N,N'*-Dibutylbenzimidazolium Bromide

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 Heck Reaction *N,N'*-Heterocyclic Carbene 4-Pyrone NBS/DMF

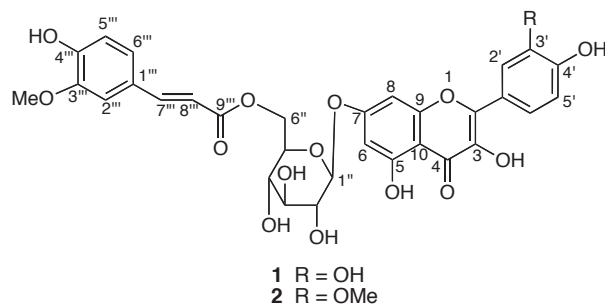
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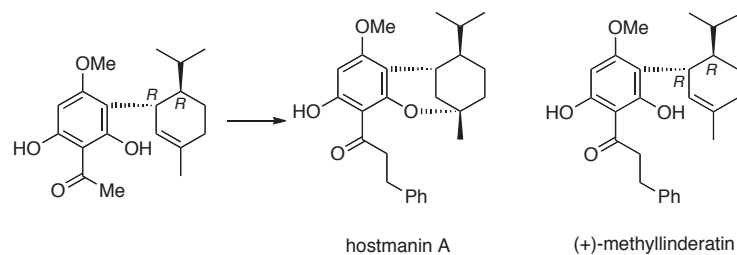
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143 The First Total Syntheses of (+)-Hostmanin A and (+)-Methylinderatin

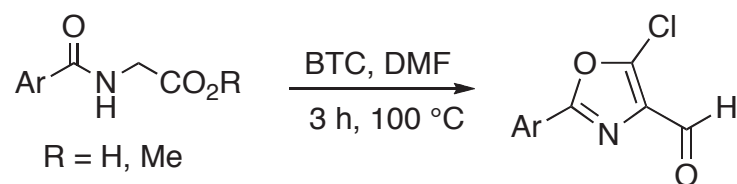
Junko Kitao, Naoko Kitamura, Nozomi Kumo, Kenji Arimitsu, Hiroki Iwasaki, Minoru Ozeki, Ai Kurume, and Masayuki Yamashita*



Hostmanin A Methylinderatin Total Synthesis Absolute Configuration Monoterpene-Substituted Chalcone

153 A Convenient Method for Synthesis of 5-Chloro-2-aryloxazole-4-carbaldehyde with Vilsmeier Reagent

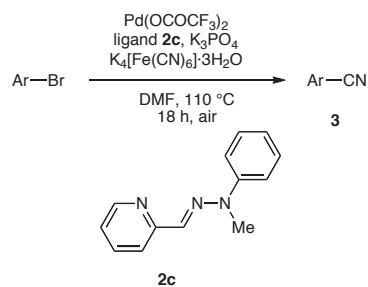
Can Jin, Jun Chen, and Weike Su*



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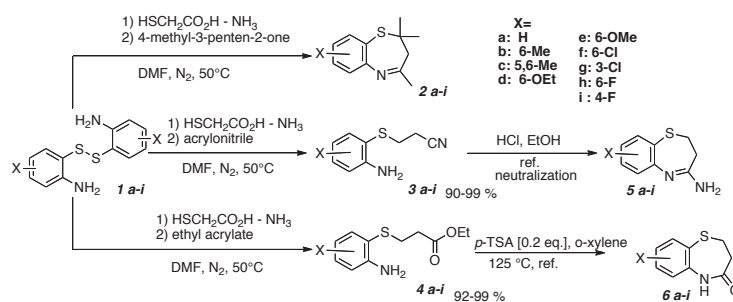
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Palladium Catalyst Cyanation Potassium Hexacyanoferrate(II) Benzonitrile Pyridylhydrazone

171 A Simple and Efficient Method for Synthesis of Benzothiazepine Derivatives

Saori Itabashi, Rong Lu, and Tetsuo Miyakoshi*



Benzothiazepine Disulfide Ammonium Thioglycolate

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- 179 Polyketides
- 182 Aromatics
- 192 Terpenes
- 206 Steroids
- 209 Alkaloids
- 220 Miscellaneous

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

- 225 Polyketides
 - 229 Aromatics
 - 232 Terpenes
 - 234 Alkaloids
 - 243 Miscellaneous
-

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