

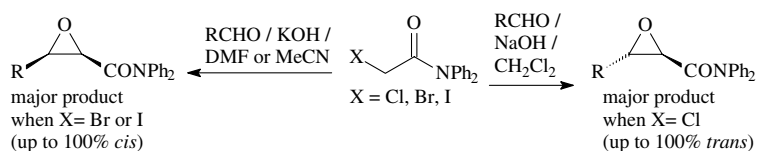
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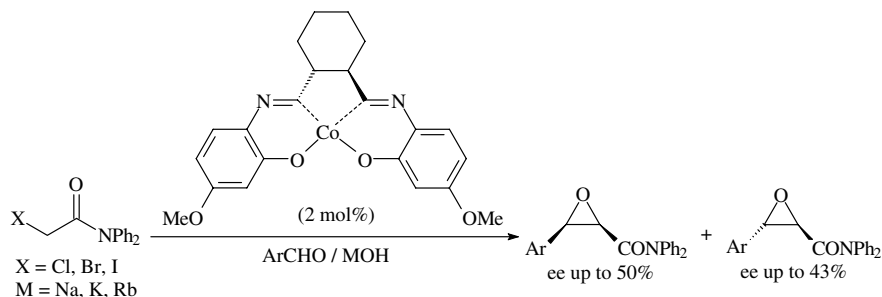
Thierry J. R. Achard, Yuri N. Belokon', Jamie Hunt, Michael North\* and Francesca Pizzato



**Enantio- and diastereoselective Darzens condensations**

pp 2965–2969

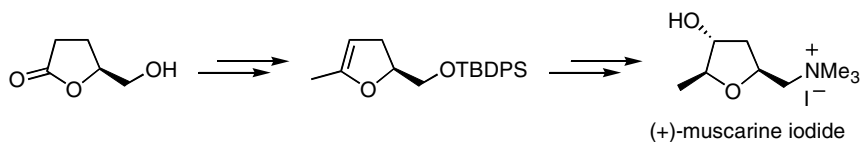
Thierry J. R. Achard, Yuri N. Belokon', Michael Ilyin, Margarita Moskalenko, Michael North\* and Francesca Pizzato



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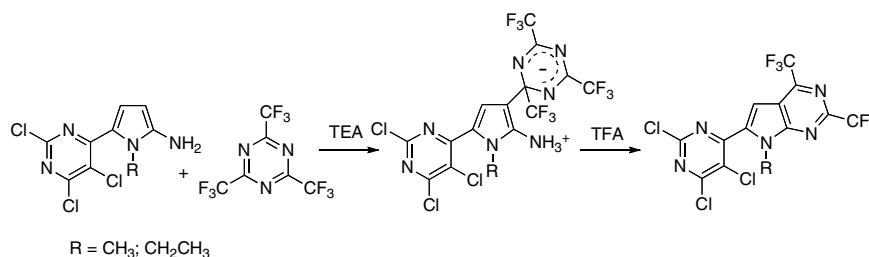
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John Boukouvalas\* and Ioan-Iosif Radu

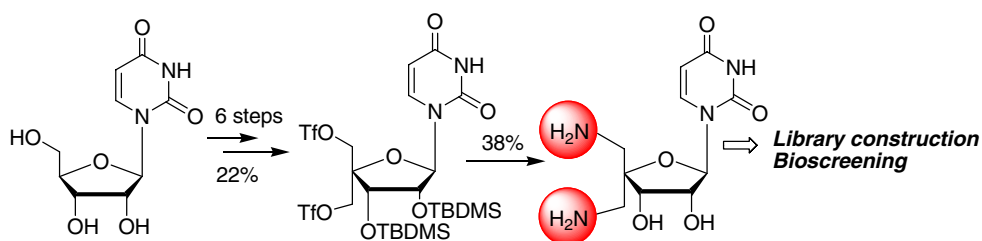


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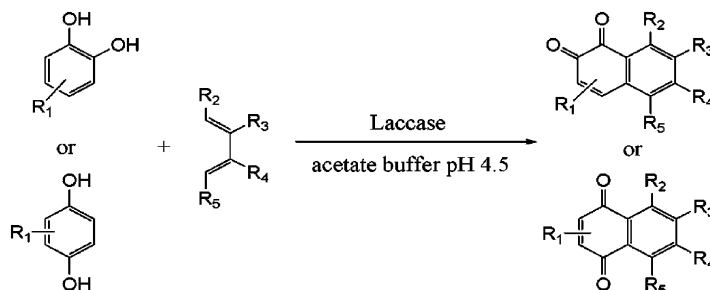

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Chung-Shan Yu,\* Ren-Tsong Wang, Li-Wu Chiang and Ming-Hsun Lee

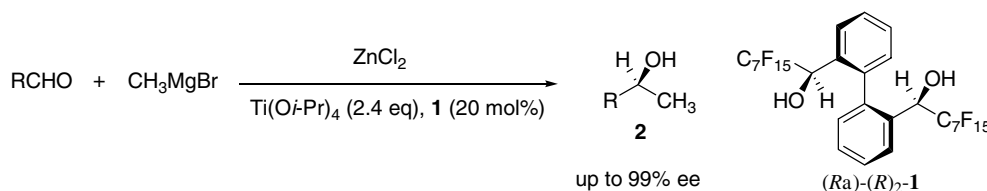

**Laccase-generated quinones in naphthoquinone synthesis via Diels–Alder reaction pp 2983–2987**

pp 2983–2987

Suteera Witayakran, Abdullah Zettili and Arthur J. Ragauskas\*

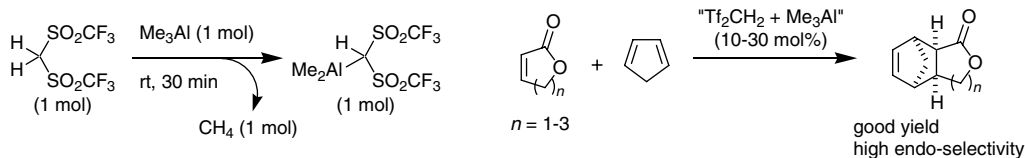

**Enantioselective addition of methyl group to aldehydes catalyzed by titanium complex of fluoros ligand pp 2989–2991**

Masaaki Omote, Naoya Tanaka, Atsushi Tarui, Kazuyuki Sato, Itsumaro Kumadaki and Akira Ando\*



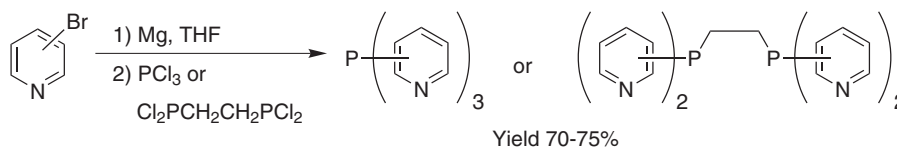
**Development of effective Lewis acids for the catalytic Diels–Alder reaction of  $\alpha,\beta$ -unsaturated lactones with cyclopentadiene** pp 2993–2997

Hikaru Yanai, Arata Takahashi and Takeo Taguchi\*



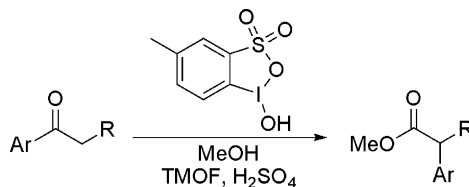
**Improved synthesis of monodentate and bidentate 2- and 3-pyridylphosphines** pp 2999–3001

Alexander M. Kluwer, Irshad Ahmad and Joost N. H. Reek\*



**Oxidative rearrangements of arylalkanes with 1*H*-1-hydroxy-5-methyl-1,2,3-benziodoxathiole 3,3-dioxide, a ‘green’ analog of Koser’s reagent** pp 3003–3007

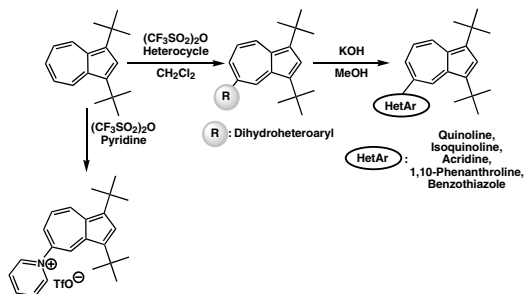
Michael W. Justik



Previous methods for the conversion of arylalkanes to alkyl 2-arylesters by oxidative rearrangement utilized reagents which either produced toxic metal salts or halogenated organics as by-products. In this report, 1*H*-1-hydroxy-5-methyl-1,2,3-benziodoxathiole 3,3-dioxide (HMBI) is used to effect this useful transformation, where the reduced iodine reagent is water-soluble and readily recycled.

**Synthesis of 5-heteroarylazulenes: first selective electrophilic substitution at the 5-position of azulene** pp 3009–3012

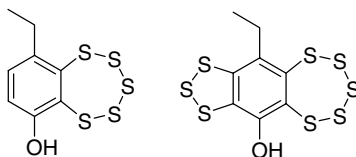
Taku Shoji,\* Shunji Ito, Masataka Watanabe, Kozo Toyota, Masafumi Yasunami and Noboru Morita\*



**Synthesis and reactions of benzopentathiepin having hydroxyl group**

pp 3013–3016

Ryu Sato,\* Toshiyuki Fujio, Shiduko Nakajo, Satoshi Ogawa and Ashraful Alam

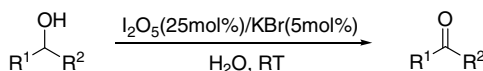


Benzopentathiepins having hydroxyl group at the neighboring of pentathiepin rings were synthesized and their alkylation reactions were studied.

**I<sub>2</sub>O<sub>5</sub>: mild and efficient reagents for the oxidation of alcohols in water**

pp 3017–3019

Zhong-Quan Liu,\* Yankai Zhao, Haiqing Luo, Lingzhi Chai and Qiuju Sheng

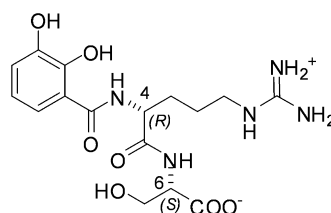


The mild and efficient nature of HIO<sub>3</sub> and I<sub>2</sub>O<sub>5</sub> as environmentally benign, commercially available, atom efficient, and safe reagents for the oxidation of alcohols has been demonstrated. Additionally, these oxidants are highly chemoselective, and effect smooth room temperature oxidation of various electron-rich alcohols with catalytic amounts of KBr in water.

**Vanchrobactin: absolute configuration and total synthesis**

pp 3021–3024

Raquel G. Soengas, Cristina Anta, Alfonso Espada, Rosa M. Nieto, Marta Larrosa, Jaime Rodríguez and Carlos Jiménez\*

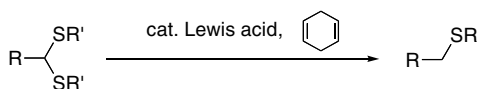


The stereochemistry of vanchrobactin, a siderophore produced by *Vibrio anguillarum* serotype O2, was elucidated by chiral capillary electrophoresis analysis and total synthesis.

**Lewis acid-catalyzed reduction of dithioacetals by 1,4-cyclohexadiene**

pp 3025–3028

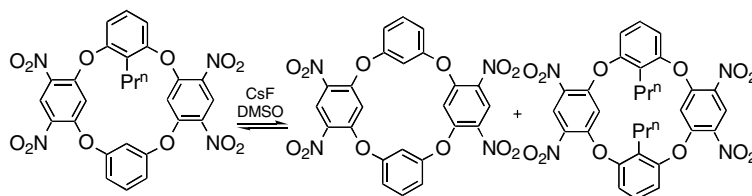
Kei-ichiro Ikeshita, Nobuhiro Kihara,\* Motohiro Sonoda and Akiya Ogawa



**Synthesis and disproportionation of ABAC-type oxacalix[4]arenes**

pp 3029–3032

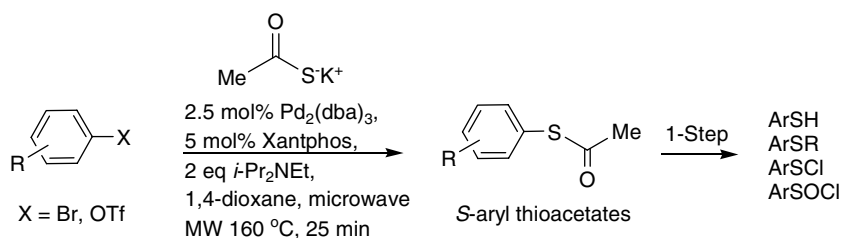
Hisatoshi Konishi,\* Takayuki Mita, Osamu Morikawa and Kazuhiro Kobayashi



**Efficient preparation of S-aryl thioacetates from aryl halides and potassium thioacetate**

pp 3033–3037

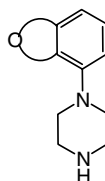
Chunqiu Lai\* and Bradley J. Backes



**Synthesis of chromanyl and dihydrobenzofuranyl piperazines**

pp 3039–3041

David A. Favor,\* Douglas S. Johnson,\* James J. Powers, Tingsheng Li and Rambabu Madabattula



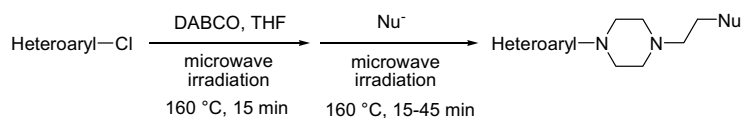
The synthesis of a series of regioisomeric chromanyl and dihydrobenzofuranyl piperazines is described.



**An efficient one-pot, two-step synthesis of 4-substituted 1-heteroaryl piperazines under microwave irradiation conditions**

pp 3043–3046

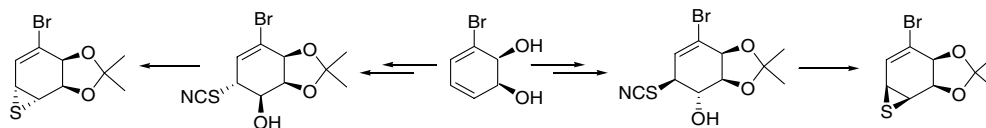
Hong-Jun Wang,\* William G. Earley,\* Robert M. Lewis, Rajiv R. Srivastava, Andrew J. Zych, David M. Jenkins and David J. Fairfax



**Diastereodivergent synthesis of optically pure vinyl episulfides and  $\beta$ -hydroxy thiocyanates from a bacterial metabolite**

pp 3047–3051

Ana Bellomo and David Gonzalez\*

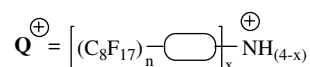
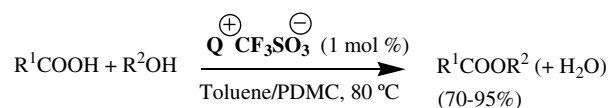


Conditions for episulfide formation in cyclohexenyl systems were optimized and applied to the construction of optically pure thiodeoxycyclitol precursors by a chemoenzymatic strategy.

**Efficient condensation of carboxylic acids with alcohols catalyzed by fluoros ammonium triflates**

pp 3053–3056

László Mercs, Gianluca Pozzi\* and Silvio Quici

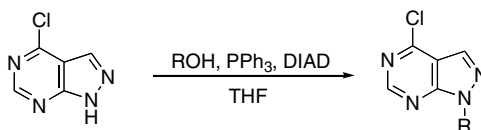


Direct esterification of carboxylic acids with equimolar amounts of alcohols can be conveniently run under mild fluoros biphasic conditions in the presence of recoverable fluoros ammonium salts.

**Efficient and regioselective N-1 alkylation of 4-chloropyrazolo[3,4-d]pyrimidine**

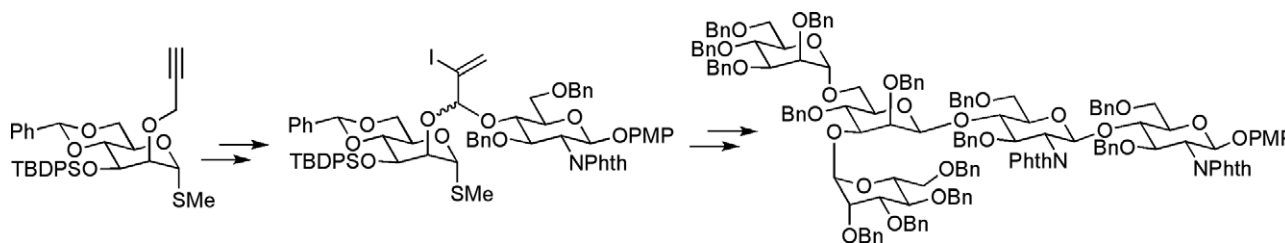
pp 3057–3059

Morten Brændvang and Lise-Lotte Gundersen\*

 **$\beta$ -Mannosylation of *N*-acetyl glucosamine by propargyl mediated intramolecular aglycon delivery (IAD): synthesis of the *N*-glycan core pentasaccharide**

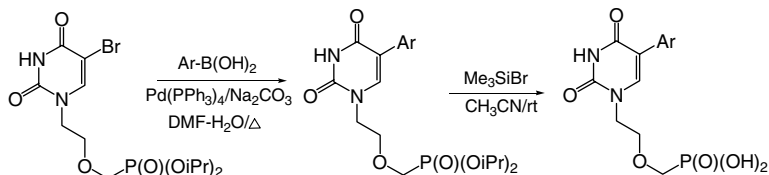
pp 3061–3064

Emanuele Attolino and Antony J. Fairbanks\*



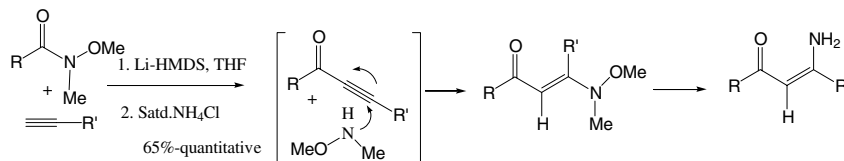
**Pd-catalyzed Suzuki–Miyaura coupling reactions in the synthesis of 5-aryl-1-[2-(phosphonomethoxy)-ethyl]uracils as potential multisubstrate inhibitors of thymidine phosphorylase** pp 3065–3067

Karel Pomeisl,\* Antonín Holý and Radek Pohl



**A facile one-pot synthesis of acyclic β-enamino ketones, an important class of versatile synthetic intermediates** pp 3069–3072

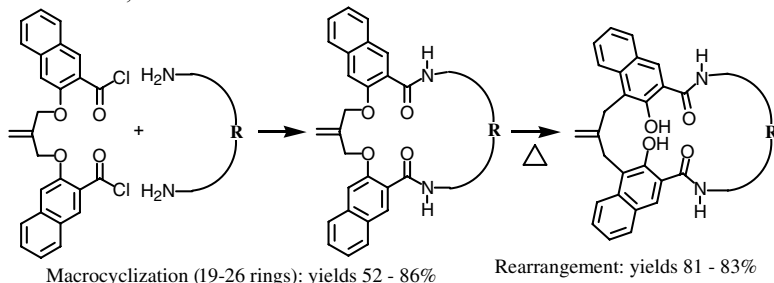
Anusuya Choudhury,\* Michael Breslav, Jeffrey S. Grimm, Tong Xiao, Dawei Xu and Kirk L. Sorgi



A one-pot sequential process consisting of nucleophilic substitution of the lithiated acetylides with Weinreb amides followed by a Michael reaction of the extruded *N*-methoxy-*N*-methylamine after quenching with saturated  $\text{NH}_4\text{Cl}$ , provided β-enamino (*N*-methoxy-*N*-methyl) ketones in high yield. It has been demonstrated that this method is applicable to a wide variety of such amides and acetylides. Prolonged stirring of the reaction mixture with saturated  $\text{NH}_4\text{Cl}$  generates β-enamino ketones with structural diversity.

**A convenient and efficient route for the synthesis of amidecrownophanes via 1:1 macrocyclization of di(acid chloride) with diamine derivatives** pp 3073–3076

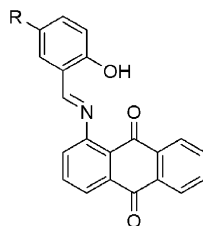
Wei-Tao Gong, Kazuhisa Hiratani,\* Toru Oba and Satoshi Ito



Without high dilution technique, 1:1 macrocyclization occurred in good yields.

**Dual chemosensing properties of new anthraquinone-based receptors toward fluoride ions** pp 3077–3081

Soosai Devaraj, Duraisamy Saravanakumar and Muthusamy Kandaswamy\*



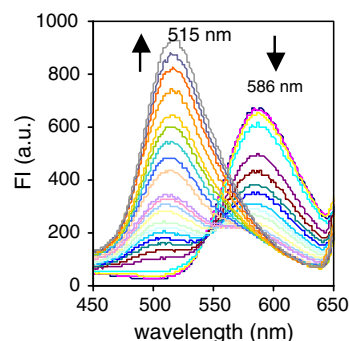
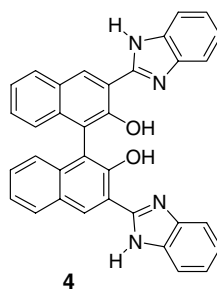
R  
**1** = Br  
**2** = Me  
**3** =  $\text{NO}_2$

**Colorimetric and ratiometric fluorescence sensing of fluoride ions based on competitive intra- and intermolecular proton transfer**

pp 3083–3087

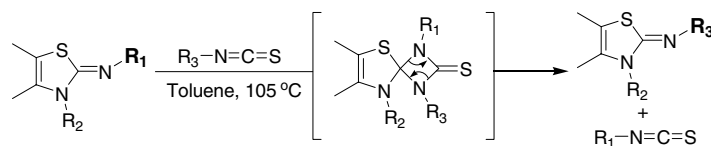
Vijay Luxami and Subodh Kumar\*

Competitive intra- and intermolecular proton transfer in receptor **4** in the presence of fluoride ions leads to 'ON-OFF-ON' switching in its emission behaviour and provides an opportunity for highly selective ratiometric estimation of fluoride ions.


**Novel isothiocyanate transposition in 2-alkyliminothiazoles: a simple solution for regiochemical problem**

pp 3089–3092

Dongyun Shin,\* Jihoon Lee, Kee Dal Nam and Hoh-Gyu Hahn

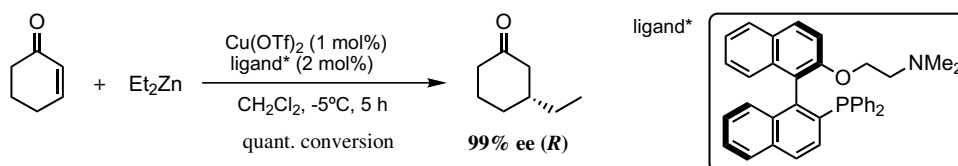


Novel alkyl/aryl transpositions in the reaction of 2-iminothiazoles with alkyl/aryl isothiocyanates were discovered, which provided a simple but excellent solution for regiochemical problem in 2-iminothiazole synthesis.


**Copper-catalyzed enantioselective conjugate addition of diethylzinc using axially chiral aminoethoxyphosphine ligands**

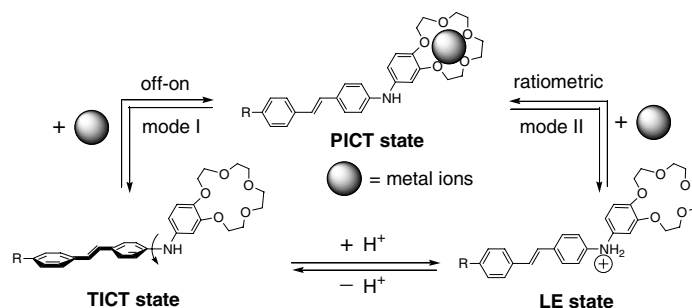
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Toshiaki Morimoto,\* Nobuhiro Obara, Iku Yoshida, Kiyoshi Tanaka and Toshiyuki Kan


**Bimodal fluorescence signaling based on control of the excited-state conformational twisting and the ground-state protonation processes**

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Jye-Shane Yang,\* Chung-Yu Hwang and Mon-Yao Chen

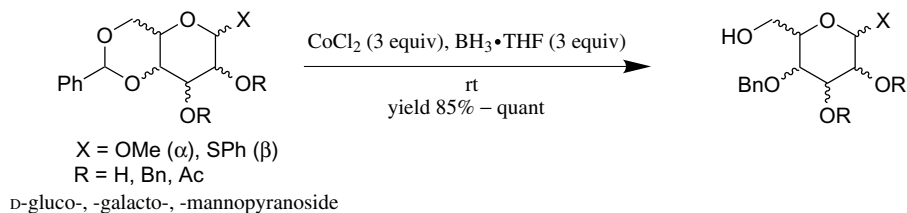




**A novel method for regioselective ring-opening reduction of 4,6-*O*-benzylidene hexopyranoside derivatives using  $\text{CoCl}_2$  and  $\text{BH}_3\cdot\text{THF}$**

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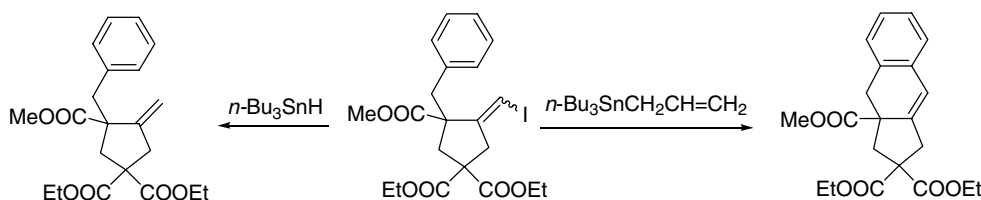
Shinki Tani, Sho Sawadi, Masaru Kojima, Shoji Akai and Ken-ichi Sato\*



**Radical cyclization of 4-aryl-1-iodobutene derivatives to form dihydronaphthalene scaffold**

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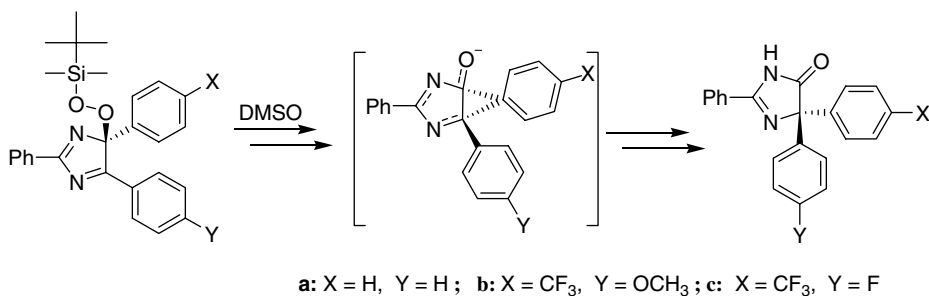
Saravanan Gowrisankar, Hyun Seung Lee and Jae Nyoung Kim\*



**The stereoselective thermal rearrangement of chiral lophine peroxides**

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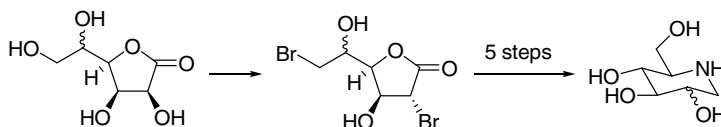
Masaru Kimura,\* Gonghao Lu, Hiroshi Iga, Mitsuru Tsunenaga, Zhiqiang Zhang and Zhizhi Hu



**Facile syntheses of 1-deoxynojirimycin (DNJ) and 1-deoxymannojirimycin (DMJ)**

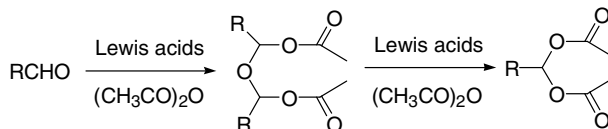
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Xuezheng Song and Rawle I. Hollingsworth\*



**A stable intermediate: a new insight into the mechanism of Lewis acids-promoted formation of acylals from aldehydes** pp 3119–3122

Liang Yin, Zhan-Hui Zhang and Yong-Mei Wang\*



\*Corresponding author

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