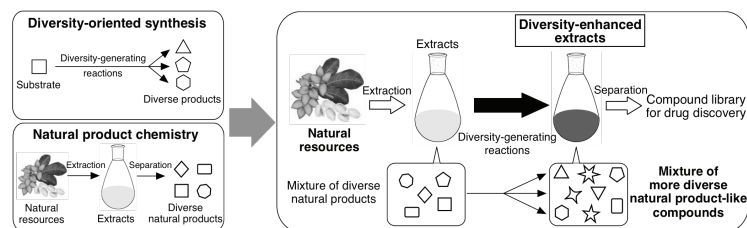


## ■ REVIEW

**1509** Developments toward the Production of Diverse Natural-Product-Like Compounds: Diversity-Oriented Synthesis and Diversity-Enhanced Extracts

Haruhisa Kikuchi\* and Yoshiteru Oshima\*

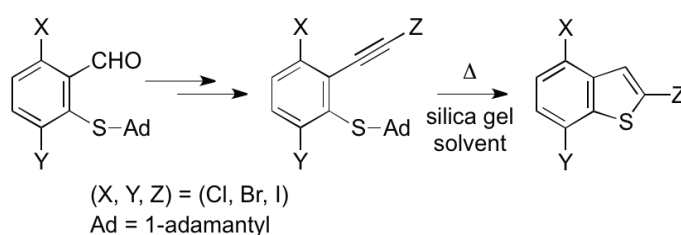


Diversity-Enhanced Extract    Chemical Diversity    Natural Product    Diversity-Oriented Synthesis    Drug Discovery

## ■ PAPERS

**1529** Silica Gel-Assisted Preparation of (Bromo)(Chloro)-(Iodo)benzo[b]thiophenes Bearing Halogen Atoms at the 2-, 4-, and 7-Positions

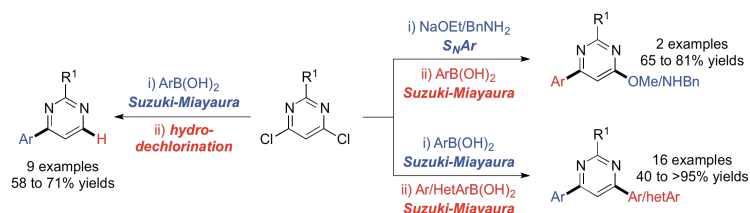
Shinichi Mikami, Hiroki Tanaka, Hiroki Kishi, Shuhei Yoshida, and Koza Toyota\*



Molecular Scaffold    Building Block    Heteroaromatic Compound    Benzothiophene    Haloalkyne

**1549** Synthesis of 4-Aryl and Unsymmetrical 4,6-Diarylpyrimidines by the Suzuki-Miyaura Cross-Coupling Reaction

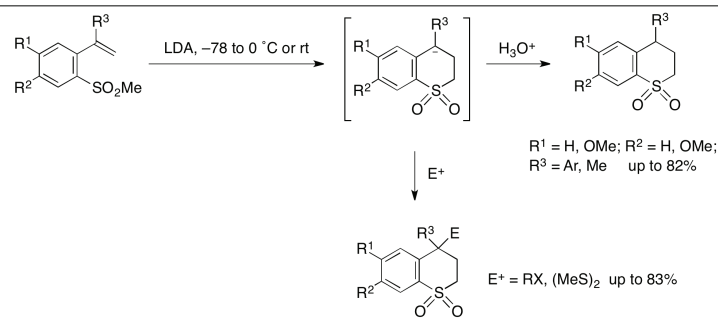
Sahaj Gupta, Jennifer A. Melanson, M Selim Hossain, Louis Vaillancourt, Gerald J. Tanoury,\* William A. Nugent, and Victor Snieckus\*



Suzuki-Miyaura Cross-Coupling    4-Arylpyrimidine    Synthesis    Hydrodechlorination Reaction    Boronic Acid

**1570** An Efficient Synthesis of 4-Mono- and 4,4-Di-substituted 3,4-Dihydro-2H-1-benzothiopyran 1,1-Dioxides by LDA-Mediated Cyclization of o-(Methylsulfonyl)styrenes

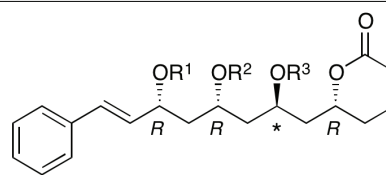
Kazuhiro Kobayashi\* and Takuma Ueyama



3,4-Dihydro-2H-1-benzothiopyran 1,1-Dioxide    o-(Methylsulfonyl)styrene    o-Bromostyrene    o-Lithiostyrene    Thiochromane 1,1-Dioxide

**1583 Three New 5,6-Dihydro- $\alpha$ -pyrones Isolated from *Cryptocarya nitens***

Koki Mori, Aiko Shimogomi, Naohito Abe, Manami Haba, Tomoaki Yoshimura, Joko Ridho Witono, Dedy Darnaedi, Toshiyuki Tanaka, Jin Murata, and Masayoshi Oyama\*

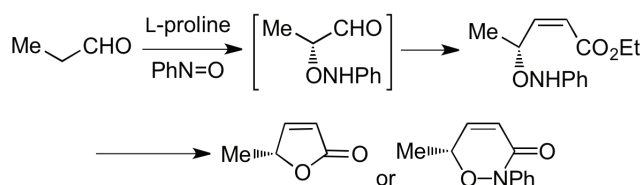


R <sup>1</sup>	R <sup>2</sup>	R <sup>3</sup>	*
Ac	H	H	R
H	Ac	H	S
H	H	Ac	R

*Cryptocarya nitens*    Lauraceae     $\alpha$ -Pyrone    Cryptonitenone

**SHORT PAPERS**
**1593 One-Pot Preparation of Ethyl 2(Z)-4-(Anilinoxy)-pentenoate by  $\alpha$ -Aminoxylation of Propanal Followed by Z-Selective HWE Reaction and the Study on Its Cyclization Reaction**

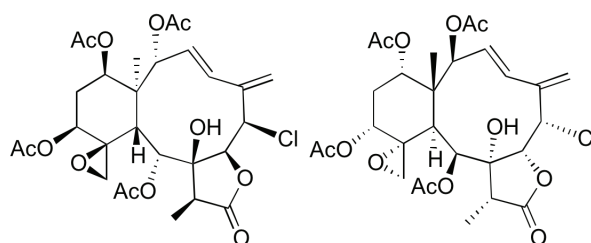
Kaori Ando,\* Mami Takao, Ikumi Oyama, and Kouki Furuta



Z-Selective HWE Reaction    Chiral Aminoxylation    One-Pot Reaction    Cyclization Reaction

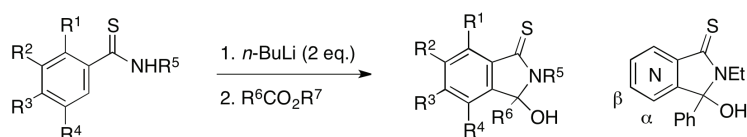
**1601 (+)-12-*epi*-Fragilide G, a New Chlorinated Briarane from the Sea Whip Gorgonian Coral *Junceella fragilis***

Li-Guo Zheng, Yu-Chia Chang, Jih-Jung Chen, Zhi-Hong Wen,\* Tsong-Long Hwang,\* and Ping-Jyun Sung\*


*Junceella fragilis*    Briarane    Fragilide G    Anti-Inflammatory Activity    iNOS

**1610 Synthesis of 3-Hydroxy-2,3-dihydro-1*H*-isoindole-1-thione Derivatives by the Reaction of 2,*N*-Dilithio-benzamides with Carboxylic Esters**

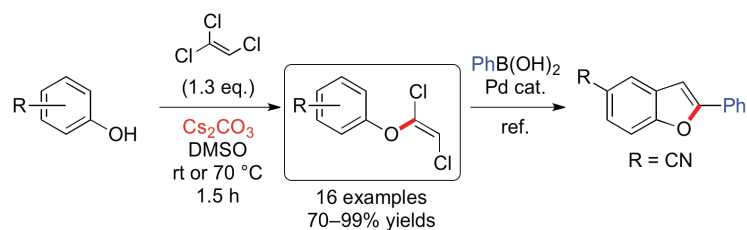
Kazuhiro Kobayashi,\* Daiki Fujiwara, Kazuma Nozaki, and Takashi Nogi


 R<sup>1</sup> = H; R<sup>2</sup> = H, Cl, OMe; R<sup>1</sup>-R<sup>2</sup> = benzo; R<sup>3</sup>, R<sup>4</sup> = H, OMe; R<sup>5</sup> = alkyl, aryl; R<sup>6</sup> = (Het)Ar, cinnamyl; R<sup>7</sup> = Me or Et

 N at  $\alpha$  or  $\beta$ 

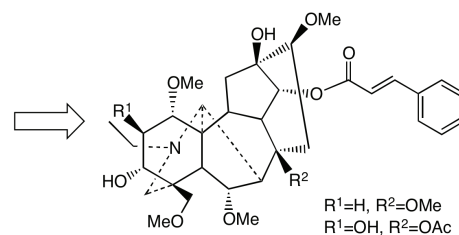
 3-Hydroxy-2,3-dihydro-1*H*-isoindole-1-thione    2,*N*-Dilithiobenzothioamide    3-Hydroxy-2,3-dihydro-1*H*-pyrrolo[3,4-*b*]pyridine-1-thione    Carboxylic Ester

- 1622** **Cs<sub>2</sub>CO<sub>3</sub>-Promoted Vinylation of Phenols with Trichloroethylene: Facile Synthesis of (*E*)-1,2-Dichloro-1-phenoxyethenes**  
 Kazunori Takahashi,\* Naho Mamiya, Kei Fukushima, Masayoshi Tsubuki, and Toshio Honda



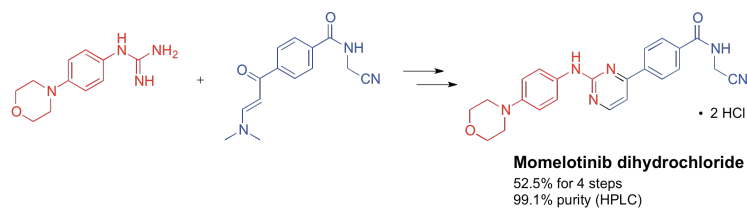
Aryl Vinyl Ether (E)-1,2-Dichloro-1-phenoxyethene Cesium Carbonate Trichloroethylene

- 1631** **Two New C<sub>19</sub>-Diterpenoid Alkaloids from *Aconitum franchetii* var. *villosulum***  
 Wenliang Xu, Lin Chen, Feng Gao, and Xianli Zhou\*



Diterpenoid Alkaloid Cytotoxicity *Aconitum franchetii*

- 1638** **New and Convergent Synthesis of Momelotinib Dihydrochloride**  
 Zhiwei Zhao, Mingjie Liu, Yaowei Liu, Yuan Wang, Chuntao Wu, Yongjun Mao, Han Wang,\* and Jingli Xu



Momelotinib Dihydrochloride Synthesis

## ■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

- 1645** Polyketides  
**1648** Aromatics  
**1650** Terpenes  
**1653** Alkaloids  
**1666** Miscellaneous

■ BRUSH UP YOUR HETEROCYCLES

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1667 Brush Up Your Heterocycles

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To This Issue**

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