



## Tetrahedron Letters Vol. 49, No. 26, 2008

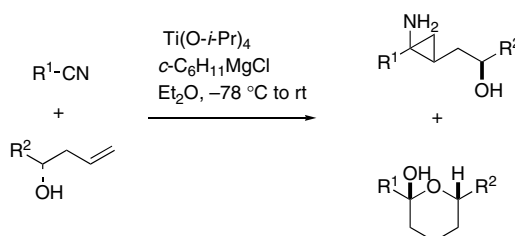
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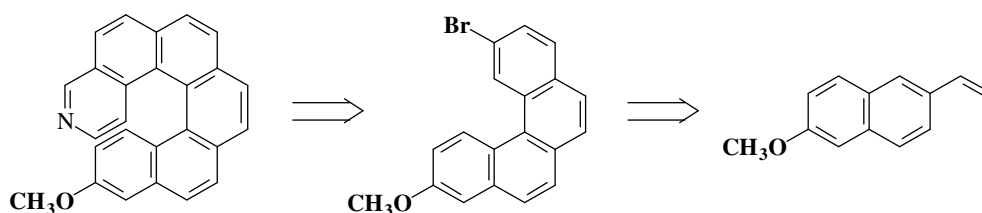
Denis N. Bobrov, Keunho Kim, Jin Kun Cha \*



## Synthesis and resolution of a new helically chiral azahelicene

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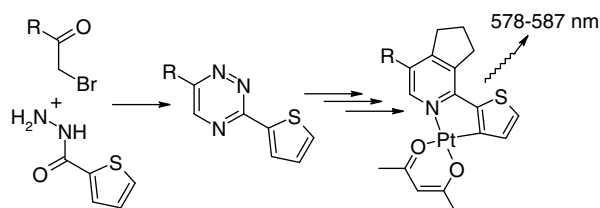
Faouzi Aloui, Riadh El Abed, Angéla Marinetti, Béchir Ben Hassine \*



## From 1,2,4-triazines towards substituted pyridines and their cyclometallated Pt complexes

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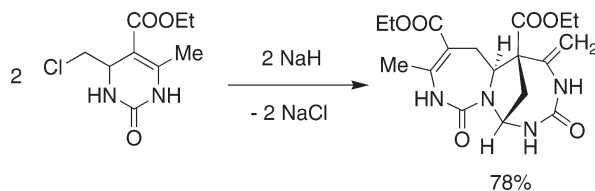
Valery N. Kozhevnikov \*, Maria M. Ustinova, Pavel A. Slepukhin, Amedeo Santoro, Duncan W. Bruce, Dmitry N. Kozhevnikov \*



### Unprecedented base-promoted cascade transformation of a pyrimidinone derivative into a novel tricyclic bis-diazepinone

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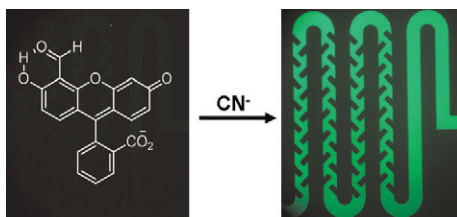
Anatoly D. Shutalev\*, Anastasia A. Fesenko, Dmitry A. Cheshkov, Dmitry V. Goliguzov



### Sensing cyanide ion via fluorescent change and its application to the microfluidic system

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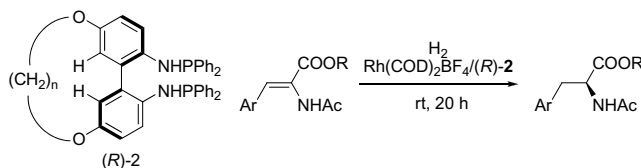
Soo Kyung Kwon, Songzi Kou, Ha Na Kim, Xiaoqiang Chen, Hyejin Hwang, Seong-Won Nam, So Hyun Kim, K. M. K. Swamy\*, Sungsu Park\*, Juyoung Yoon\*



### Novel atropisomeric aminophosphine ligands with a bridge across the 5,5'-position of biphenyl for Rh(I)-catalyzed asymmetric hydrogenation

pp 4106–4109

Hao Wei, Yong Jian Zhang, Yijun Dai, Jiaming Zhang, Wanbin Zhang\*

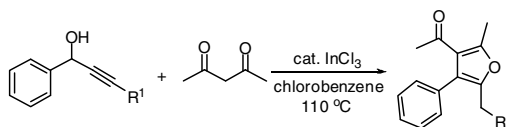


A new type of atropisomeric bisphosphine ligands **2** with a bridge across the 5,5'-position of biphenyl has been developed. The axial chirality of this type of ligands can be retained by macro-ring strain produced from 5,5'-linkage of biphenyl even without 6,6'-substituents on biphenyls. The ligand (*R*)-**2a** showed high catalytic activities and enantioselectivities (up to 95.3% ee and quantitative yields) for Rh(I)-catalyzed asymmetric hydrogenation of a variety of methyl (*Z*)-2-acetamido-3-arylacrylates.

### Synthesis of tetrasubstituted furans via In-catalyzed propargylation of 1,3-dicarbonyl compounds-cyclization tandem process

pp 4110–4112

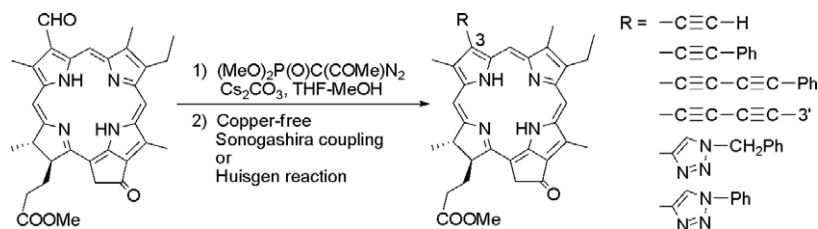
Xunbo Feng, Ze Tan\*, De Chen, Youming Shen, Can-Cheng Guo\*, Jiannan Xiang\*, Chengliang Zhu



**Synthesis, modification, and optical properties of C3-ethynylated chlorophyll derivatives**

pp 4113–4115

Shin-ichi Sasaki, Keisuke Mizutani, Michio Kunieda, Hitoshi Tamiaki \*

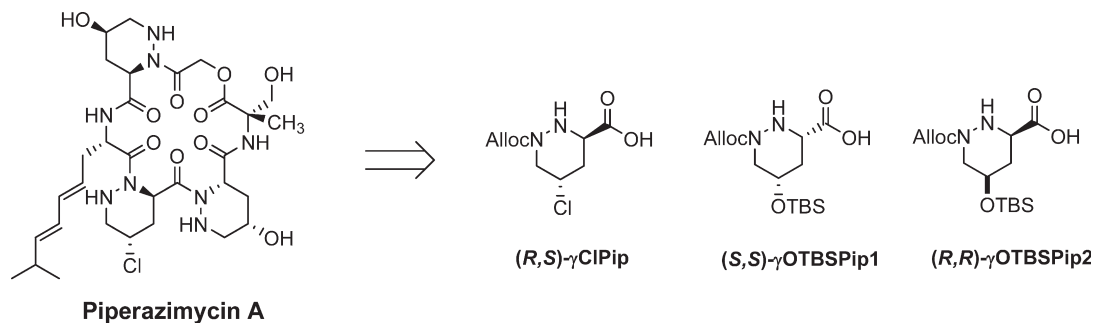


Methyl pyropheophorbide-*d* was treated with Bestmann-Ohira reagent to afford 3-ethynyl-chlorin. The terminal acetylene moiety was subjected to cross-coupling reaction as well as 1,3-dipolar cycloaddition with azido compounds.

**Progress toward the synthesis of piperazimycin A: exploration of the synthesis of  $\gamma$ -hydroxy and  $\gamma$ -chloropiperazic acids**

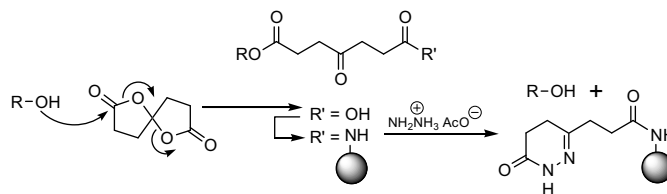
pp 4116–4118

J. Phillip Kennedy, John T. Brogan, Craig W. Lindsley \*

**4-Oxoheptanedioic acid: an orthogonal linker for solid-phase synthesis of base-sensitive oligonucleotides**

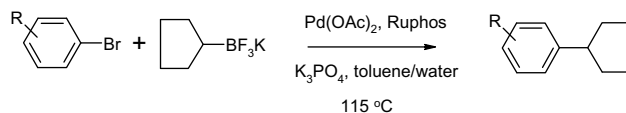
pp 4119–4121

Anna Leisvuori, Päivi Poijärvi-Virta, Pasi Virta \*, Harri Lönnberg

**Ruphos-mediated Suzuki cross-coupling of secondary alkyl trifluoroborates**

pp 4122–4124

Adri van den Hoogenband \*, Jos H. M. Lange, Jan Willem Terpstra, Melle Koch, Gerben M. Visser, Martin Visser, Ties J. Korstanje, Johann T. B. H. Jastrzebski

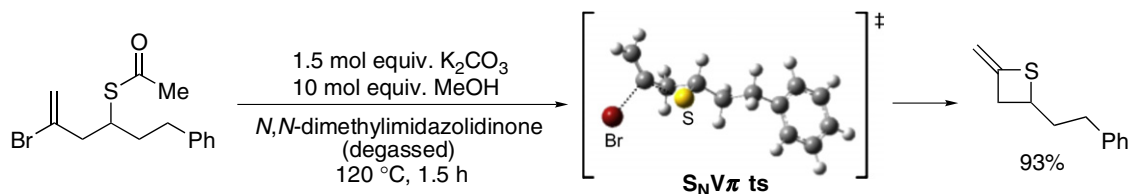


Aryl- and heteroaryl bromides are converted to the corresponding cyclopentyl analogues by a Ruphos-mediated Suzuki cross-coupling. The method is also applicable to potassium isobutyltrifluoroborate.

## Nucleophilic substitution at an $sp^2$ carbon of vinyl halides with an intramolecular thiolate moiety: synthesis of 2-alkylidenethietanes

pp 4125–4129

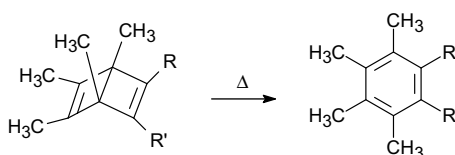
Mao-Yi Lei, Koji Fukamizu, Yong-Jun Xiao, Wei-Min Liu, Scott Twiddy, Shunsuke Chiba, Kaori Ando, Koichi Narasaka\*



## Thermal isomerization of dewarbenzene derivatives

pp 4130–4133

Lorraine Ferrar, Mark Mis, Douglas R. Robello\*



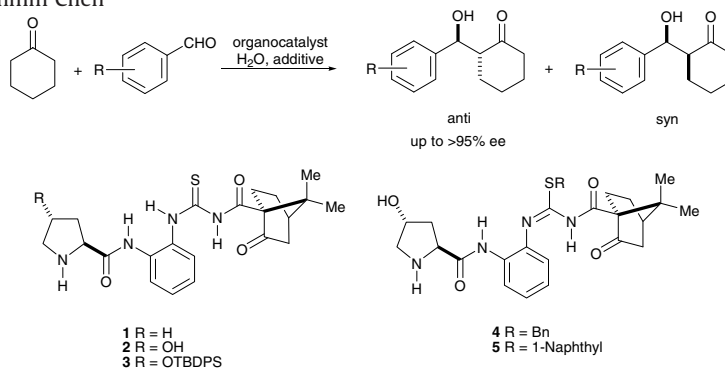
The rates of thermal conversion of seven simple dewarbenzene derivatives to their corresponding benzene isomers were measured. Relatively minor substituent changes were found to have profound effects; isomerization rates increased with the number and strength of electron-withdrawing moieties. Surprisingly, the rate of thermal isomerization for one derivative was the same in fluid solution as in a solid polymer matrix, suggesting that this reaction has a low volume of activation. Other preliminary experiments suggest that the putative intermediate has polar character. These data may provide some insights into the reaction mechanism.

## Camphor containing organocatalysts in asymmetric aldol reaction on water

pp 4134–4137

Zheng-Hao Tzeng, Hung-Yao Chen, Ching-Ting Huang, Kwunmin Chen\*

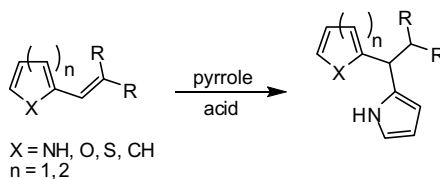
A new class of bifunctional organocatalysts were synthesized and proved to be effective in catalyzing aldol reaction on water with high to excellent diastereo- and enantioselectivities.



## Direct alkylation of pyrrole with vinyl substituted aromatics: versatile precursors for the synthesis of porphyrinoid macrocycles

pp 4138–4141

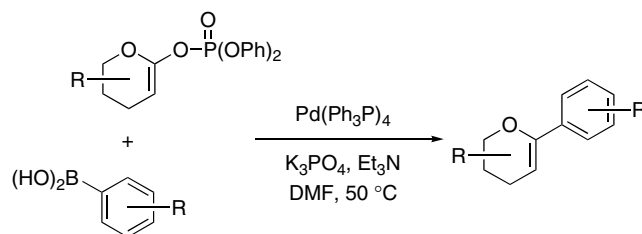
Seong-Jin Hong, Seung-Doo Jeong, Jaeduk Yoo, Jong Seung Kim, Juyoung Yoon, Chang-Hee Lee\*



**Suzuki–Miyaura cross-coupling of  $\alpha$ -phosphoryloxy enol ethers with arylboronic acids**

pp 4142–4144

Lee Pedzisa, Ian W. Vaughn, Rongson Pongdee \*

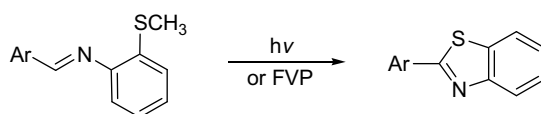


The Suzuki–Miyaura cross-coupling reaction of cyclic ketene acetal phosphates with arylboronic acids was found to be a convenient and highly efficient method for the construction of aryl vinyl ethers. A wide variety of differentially substituted electron-poor and electron-rich arylboronic acids smoothly underwent the coupling process to provide the desired dihydropyrans in moderate to excellent yields.

**Syntheses of 2-arylbenzothiazoles from flash vacuum pyrolyses and photolyses of 2-methylthio-N-(arenylidene)anilines**

pp 4145–4146

Chin-Hsing Chou \*, Pin-Chih Yu, Bo-Chi Wang

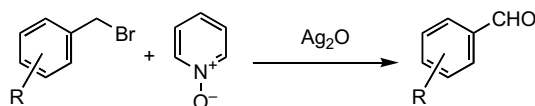


Ar = phenyl, 2-furyl, 2-thienyl, 2-benzo[*b*]furyl, 2-benzo[*b*]thienyl, 2-(*N*-methyl)indolyl, 2-chlorophenyl, 2,4-dimethoxyphenyl

**Convenient oxidation of benzylic and allylic halides to aldehydes and ketones**

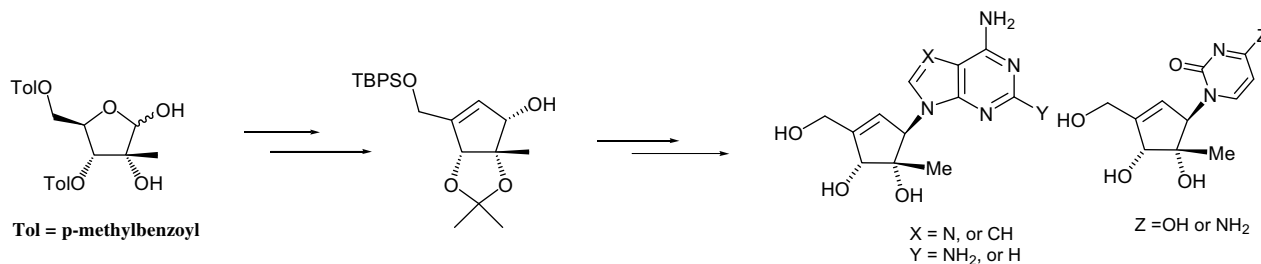
pp 4147–4148

David X. Chen, Chi M. Ho, Q. Y. Rudy Wu, Peter R. Wu, Freeman M. Wong, Weiming Wu \*

**Synthesis of 2'- $\beta$ -C-methyl-neplanocin derivatives as anti-HCV agents**

pp 4149–4152

Xibin Liao \*, Gabor Butora, David B. Olsen, Steven S. Carroll, Daniel R. McMasters, Joseph F. Leone, Mark Stahlhut, George A. Doss, Lihu Yang, Malcolm MacCoss

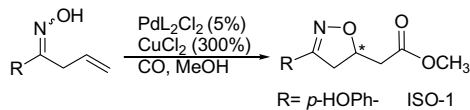


The synthesis of 2'- $\beta$ -C-methyl-Neplanocin derivatives is described.

**Enantioselectivity in the synthesis of 3,5-disubstituted  $\Delta^2$ -isoxazolines**

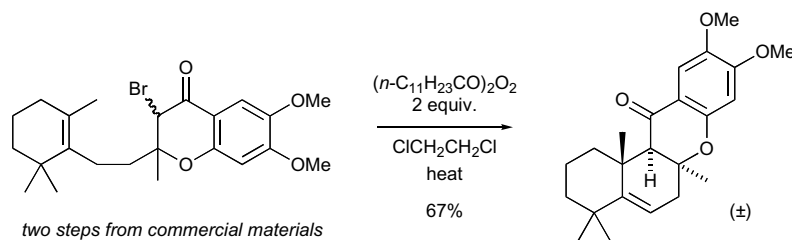
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Amber L. Norman, Michael D. Mosher \*

**Rapid stereoselective access to the tetracyclic core of puupehenone and related sponge metabolites using metal-free radical cyclisations of cyclohexenyl-substituted 3-bromochroman-4-ones**

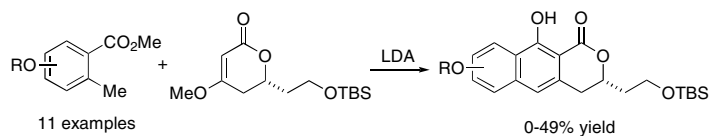
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Robin G. Pritchard, Helen M. Sheldrake, Isobel Z. Taylor, Timothy W. Wallace \*

**Naphthopyranone synthesis via the tandem Michael–Dieckmann reaction of *ortho*-toluates with 5,6-dihydropyran-2-ones**

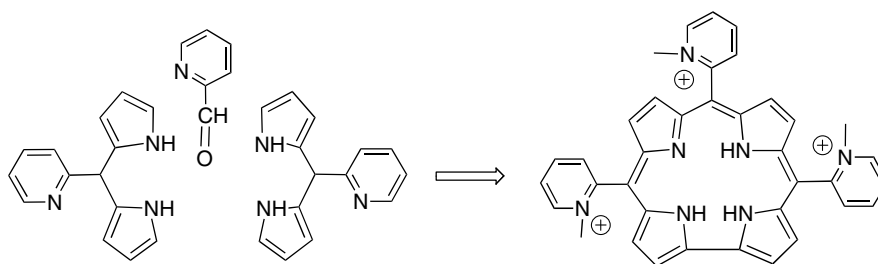
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Nichole P. H. Tan, Christopher D. Donner \*

**Facile synthesis of *ortho*-pyridyl-substituted corroles and molecular structures of analogous porphyrins**

pp 4163–4166

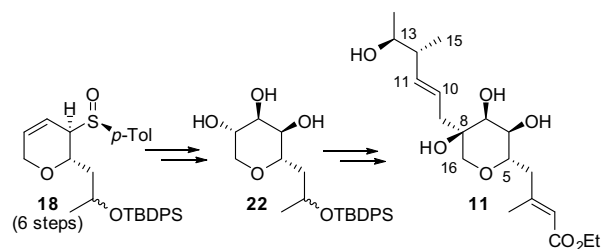
Irena Saltsman, Mark Botoshansky, Zeev Gross \*



**Synthesis of enantiopure ethyl deoxymonate B from allylic sulfinyl dihydropyrans**

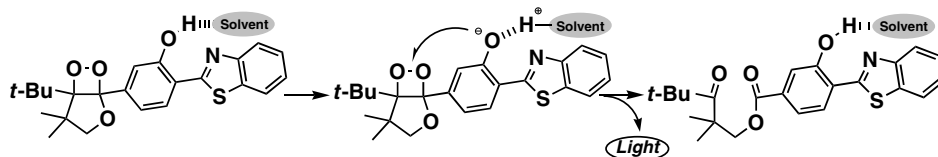
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Roberto Fernández de la Pradilla \*, Nadia Lwoff

**Solvent-promoted chemiluminescent decomposition of a bicyclic dioxetane bearing a 4-(benzothiazol-2-yl)-3-hydroxyphenyl moiety**

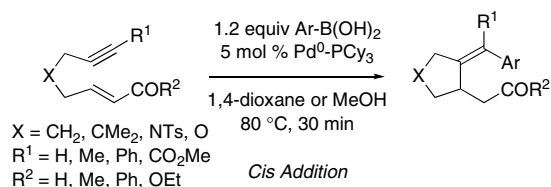
pp 4170–4173

Masakatsu Matsumoto \*, Masatoshi Tanimura, Taichi Akimoto, Nobuko Watanabe, Hisako K. Ijuin

**Palladium(0)-catalyzed cis-selective alkylative and arylative cyclization of alkynyl enones with organoboron reagents**

pp 4174–4177

Hirokazu Tsukamoto \*, Takamichi Suzuki, Tomomi Uchiyama, Yoshinori Kondo

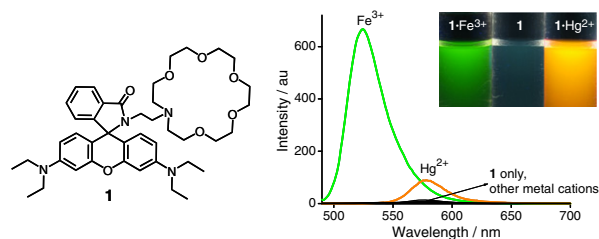


A palladium(0)-tricyclohexylphosphine catalyzes cis-selective arylative cyclization of alkynyl enones with arylboronic acids to provide five- or six-membered rings with *exo* tri- or tetra-substituted alkenes.

**Fe(III)- and Hg(II)-selective dual channel fluorescence of a rhodamine–azacrown ether conjugate**

pp 4178–4181

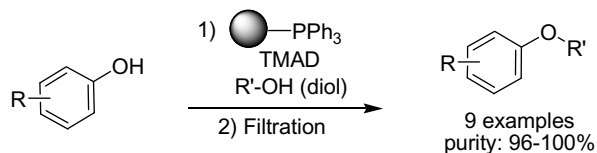
Xuan Zhang, Yasuhiro Shiraishi \*, Takayuki Hirai



**Efficient, mild, parallel and purification-free synthesis of aryl ethers via the Mitsunobu reaction**

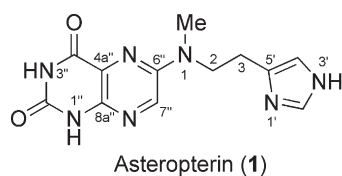
pp 4182–4185

Eric Valeur\*, Didier Roche

**Asteropterin, an inhibitor of cathepsin B, from the marine sponge *Asteropus simplex***

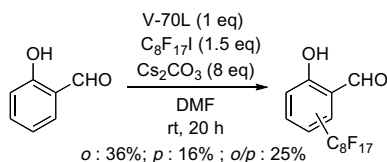
pp 4186–4188

Shuhei Murayama, Yoichi Nakao, Shigeki Matsunaga\*

Asteropterin (1) was isolated as a cathepsin B inhibitor from the marine sponge *Asteropus simplex*.**Direct perfluoroalkylation of non-activated aromatic C–H bonds of phenols**

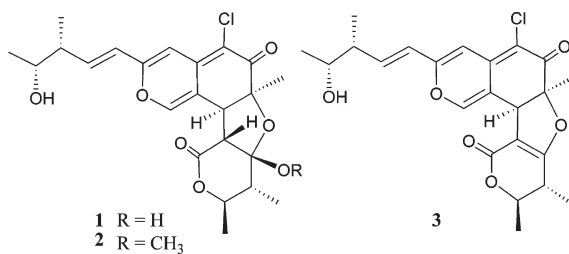
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Masato Matsugi\*, Masakazu Hasegawa, Shohei Hasebe, Shohei Takai, Ryusuke Suyama, Yusuke Wakita, Kanako Kudo, Hiromi Imamura, Toshiya Hayashi, Seiichi Haga

**Absolute stereostructures of cytotoxic metabolites, chaetomugilins A–C, produced by a *Chaetomium* species separated from a marine fish**

pp 4192–4195

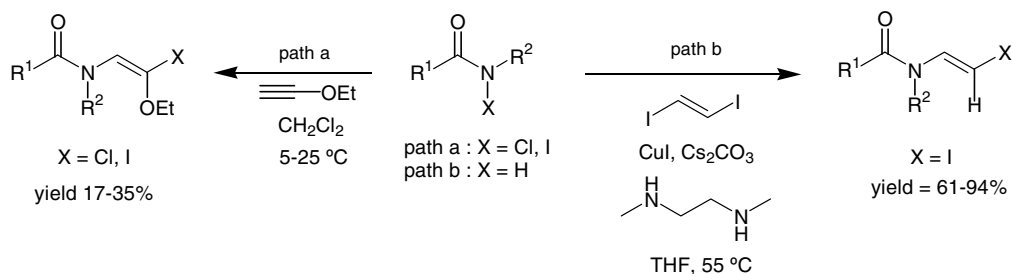
Takeshi Yamada\*, Mitunobu Doi, Hirohumi Shigeta, Yasuhide Muroga, Saki Hosoe, Atsushi Numata, Reiko Tanaka





**Copper-promoted iodovinylolation of amides: synthesis of  $\beta$ -functionalized enamides****pp 4196–4199**

Gabriel F. Sanapo, Benoit Daoust \*



\*Corresponding author

Supplementary data available via ScienceDirect

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