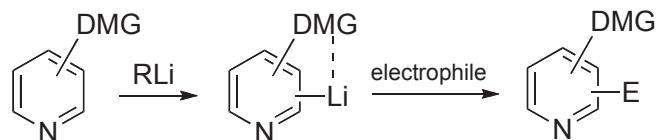


■ REVIEW

479 Directed Lithiation and Substitution of Pyridine Derivatives

Gamal A. El-Hiti,* Keith Smith,* and Amany S. Hegazy



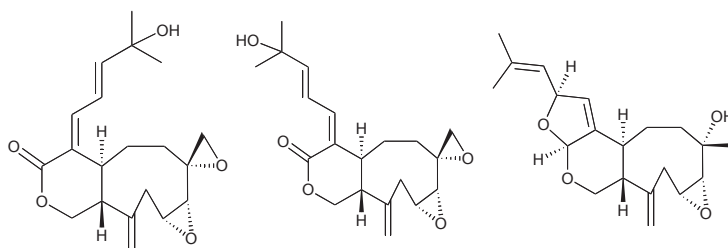
DMG = $\text{SO}_2\text{NH}^t\text{Bu}$, NHCO^tBu , NHCO_2^tBu , $\text{CH}_2\text{NHCO}^t\text{Bu}$, $\text{CH}_2\text{NHCO}_2^t\text{Bu}$, $\text{CH}_2\text{NHCONMe}_2$, CONEt_2 , CON^iPr_2 , CONHPh , OCSNEt_2 , SO^tBu , SOAr , CO_2H , $\text{CH}(\text{OEt})_2$, OEt , OMe , X

Substituted Pyridine Lithium Reagent Directed Lithiation Directing Metalating Group Electrophile

■ PAPERS

 505 Structures and Bioactivities of Xenicanes from an Okinawan Soft Coral *Xenia* sp.

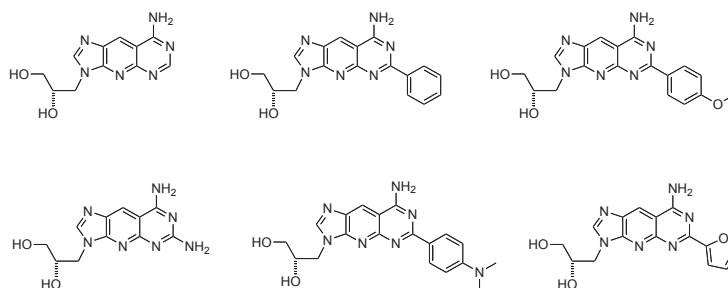
Wilmar Maarisit, Kentaro Yano, Tomofumi Miyazato, Prodip K. Roy, Junsei Taira, and Katsuhiko Ueda*



Soft Coral *Xenia* sp. Diterpenoid NMR Spectroscopy Bioactivity

515 Development of a Probe Containing Novel Fluorescent Tricyclic-Nucleoside Analogs for Detecting Single Nucleotide Polymorphisms

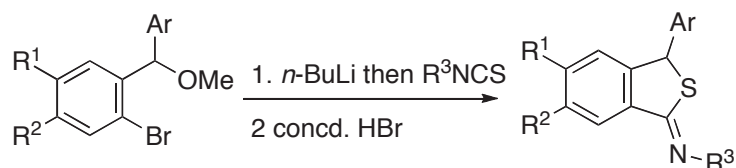
Ayako Moriya, Tokimitsu Ohki, Aya Hayai, and Yoshihito Ueno*



DNA RNA SNPs Fluorescence Tricyclic Base

 526 Synthesis of *N*-Substituted (*Z*)-3-Arylbenzo[*c*]thiophen-1(3*H*)-imines by the Reaction of 1-[Aryl(methoxy)methyl]-2-lithiobenzenes with Isothiocyanates Followed by Acid-Mediated Cyclization

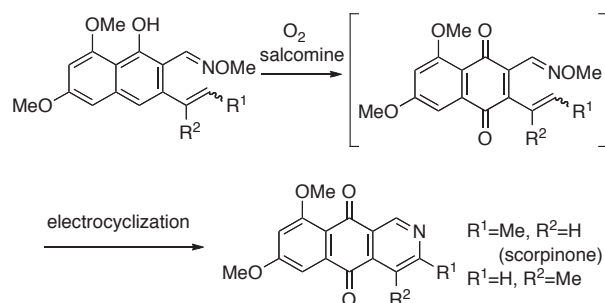
Kazuhiro Kobayashi,* Yuuho Shigemura, and Kosuke Ezaki



Benzo[*c*]thiophen-1(3*H*)-imine Benzo[*c*]thiophen-1(3*H*)-one *O*-[Aryl(methoxy)methyl]phenyl lithium Aryl Isothiocyanate Thioamide

537 Novel Total Synthesis of the 2-Azaanthraquinone Alkaloid Scorpinone Using a Tandem Oxidation and Azaelectrocyclic Reaction

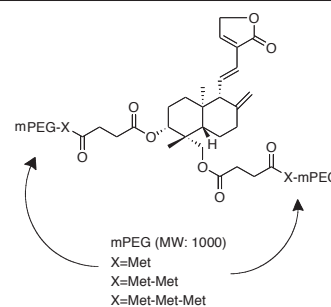
Tominari Choshi,* Mihar Hironaka, Miki Goto, Kaori Shimizu, Yuhki Kurata, Takashi Nishiyama, Noriyuki Hatae, and Satoshi Hibino*



2-Azaanthraquinone Alkaloid Scorpinone Total Synthesis Tandem Reaction Azaelectrocyclic Reaction

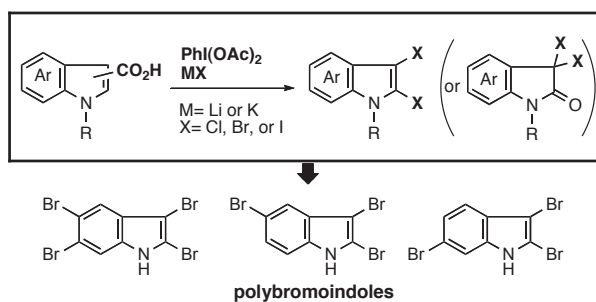
550 Intramolecular Methionine Residue and Its Peptide Segments Stabilize Dehydroandrographolide Succinate-Methoxypolyethylene Glycol Conjugates

Senhao Li, Siliang Feng, Lei Qiao, Qingbin Meng, Huajin Dong, Zehui Gong, Dongqin Quan, and Kelian Liu*


 Dehydroandrographolide Succinate γ -Lactone Methoxypolyethylene Glycol (mPEG) Anti-Inflammatory Activity Antioxidation

561 Decarboxylative Halogenation of Indolecarboxylic Acids Using Hypervalent Iodine(III) Reagent and Its Application to the Synthesis of Polybromoindoles

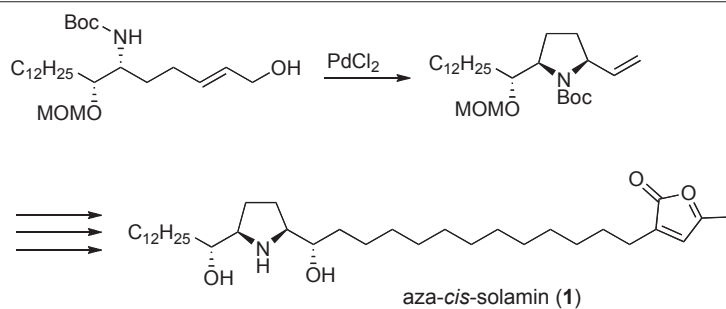
Hiromi Hamamoto,* Hideaki Umemoto, Misako Umemoto, Chiaki Ohta, Emi Fujita, Akira Nakamura, Tomohiro Maegawa, and Yasuyoshi Miki*



Indole Hypervalent Iodine Marine Natural Product Halogenation Reaction Decarboxylation Reaction

573 Syntheses of a Pyrrolidine Analog of a Tetrahydrofuran Containing Acetogenin, *cis*-Solamin

Kouji Ohnishi, Haruka Sakurai, Kazuya Kobayashi, Hidefumi Makabe, Kenta Teruya, Kenichi Akaji, and Yasunao Hattori*

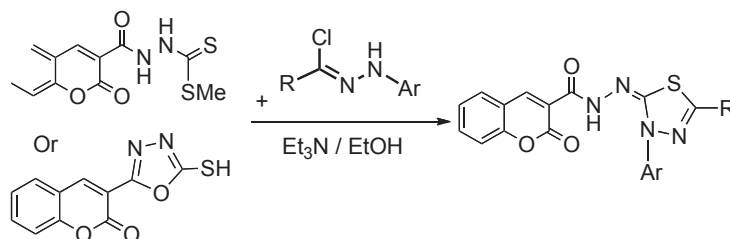


Pyrrolidine Natural Product Stereoselective Synthesis

■ SHORT PAPERS

583 **Synthesis and Antitumor Activity of 1,3,4-Thiadiazole Derivatives Bearing Coumarine Ring**

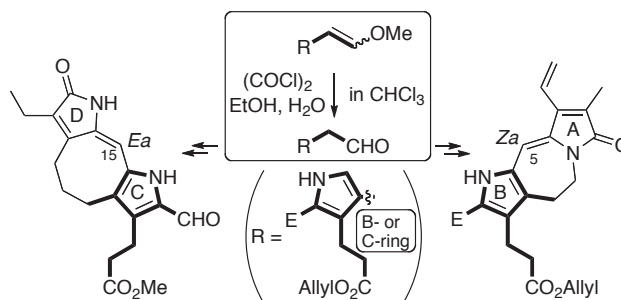
Sobhi M. Gomha* and Hassan M. Abdel-aziz



3-(5-Mercapto-1,3,4-oxadiazol-2-yl)-2H-chromen-2-one Hydrazonoyl Halide Anticancer Activity

593 **One-Carbon Homologation of Pyrrole Carboxaldehyde via Wittig Reaction and Mild Hydrolysis of Vinyl Ether – toward the Synthesis of a Sterically Locked Phytochrome Chromophore**

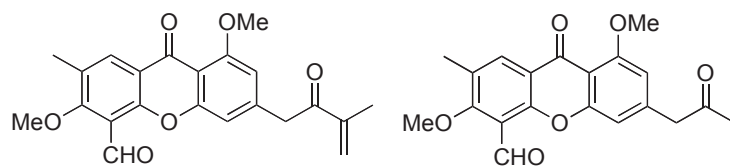
Ryo Sakata, Takahiro Soeta, and Yutaka Ukaji*



Sterically Locked Tetrapyrrole Chromophore One Carbon Homologation Mild Hydrolysis Vinyl Ether Oxalyl Chloride

604 **New Xanthenes from *Comastoma Pulmonarium* and Their Anti-Tobacco Mosaic Virus Activity**

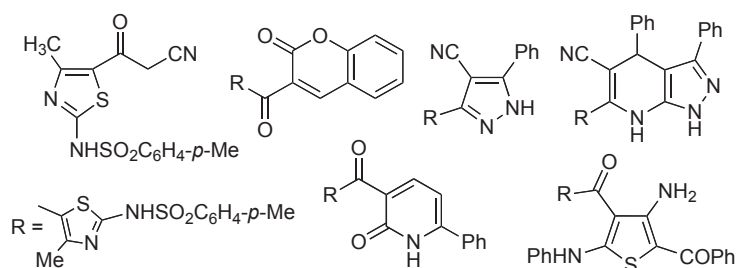
Min Zhou, Kun Zhou, Ying-Liang Zhao, Neng-Jun Xiang, Tian-Dong Zhang, Cheng-Ming Zhang, Yue-De Wang, Wei Dong, Bing-Kun Ji, Li-Mei Li, Jie Lou, Gan-Peng Li,* and Qiu-Fen Hu,*



Xanthone *C. pulmonarium* Anti-Tobacco Mosaic Virus Activity

610 **Synthesis and Reactivity of Cyanomethyl Thiazolyl Ketone: A Facile Synthesis of Some New Azoles, Chromene, Pyridine, Thiophene, Pyrazolo[3,4-*b*]pyridine and Pyrimido[1,2-*a*]benzimidazole Derivatives**

Mohamed A. Raslan, Mohamed A. Khalil, and Samia M. Sayed*



Thiazole Pyridine Thiophene Chromene

■ NEW HETEROCYCLIC NATURAL PRODUCTS

- 627 Polyketides
 - 629 Aromatics
 - 637 Terpenes
 - 650 Alkaloids
 - 662 Miscellaneous
-

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

- 665 Polyketides
 - 669 Aromatics
 - 671 Terpenes
 - 673 Alkaloids
-

■ BRUSH UP YOUR HETEROCYCLES

- 685 Brush Up Your Heterocycles
-

**Contributors
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583	Abdel-aziz, Hassan M.	573	Teruya, Kenta
573	Akaji, Kenichi	505	Ueda, Katsuhiko
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550	Dong, Huajin	593	Ukaji, Yutaka
604	Dong, Wei	561	Umemoto, Hideaki
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550	Gong, Zehui	604	Zhang, Tian-Dong
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604	Hu, Qiu-Fen		
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610	Khalil, Mohamed A.		
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604	Li, Gan-Peng		
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550	Liu, Keliang		
604	Lou, Jie		
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515	Ohki, Tokimitsu		
573	Ohnishi, Kouji		
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550	Quan, Dongqin		
610	Raslan, Mohamed A.		
505	Roy, Prodip K.		
593	Sakata, Ryo		
573	Sakurai, Haruka		
610	Sayed, Samia M.		
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537	Shimizu, Kaori		
479	Smith, Keith		
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