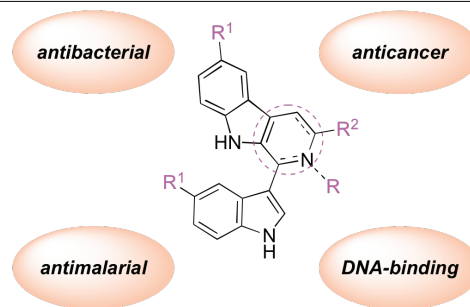


■ REVIEW

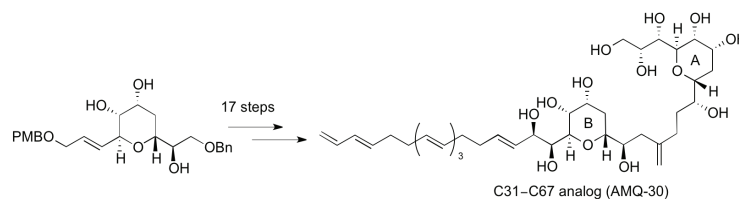
- 1171 **Eudistomin U, Isoeudistomin U, and Related Indole Compounds: Synthesis and Biological Activity**  
Alexandra A. Kolodina and Olga V. Serdyuk\*



Alkaloid    Bengacarboline     $\beta$ -Carboline    Eudistomin U    Indole

■ COMMUNICATION

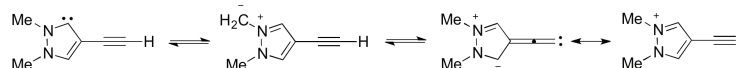
- 1197 **Synthesis of an Analog of Amphidinol 3 Corresponding to the C31–C67 Section**  
Tomoyuki Koge, Yuma Wakamiya, Makoto Ebine, and Tohru Oishi\*



Amphidinol 3    Analog of Amphidinol 3    Bis-Tetrahydropyran    Coupling of Epoxide    Antifungal Activity

■ PAPERS

- 1203 **Deprotonation of 4-Ethynylpyrazolium Salts**  
Nils Lennart Ahlburg, Olivia Doppleb, Kai Hillrichs, Jan C. Namyslo, Eike G. Hübner, and Andreas Schmidt\*



Tautomerism    Mesoionic Compound    Acetylene Derivative    Allenylidene Derivative

**1216 Construction of PQQ-Enzyme Multi-Immobilized Electrodes for Electrocatalytic Reduction of Carbonyl Compounds**

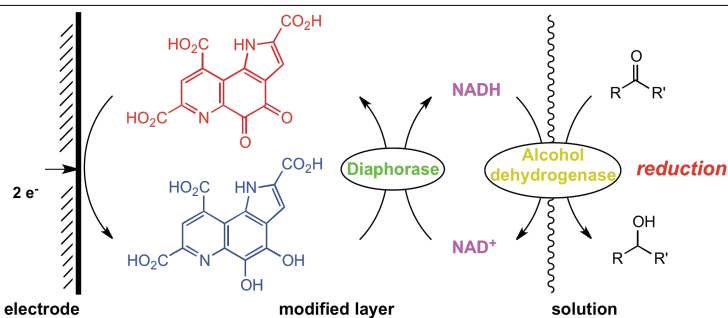
Yoshitomo Kashiwagi,\* Tetsuya Ono, Kentaro Yoshida, Toshinori Ito, and Nobuki Sakurai\*

Modified Electrode

Electrocatalytic Reduction

Mediator

Bioelectrochemical Reactor

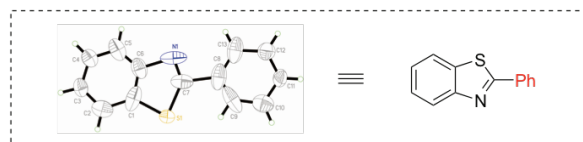
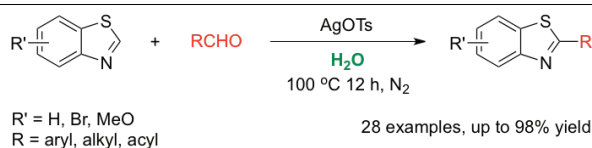

**1226 Silver-Mediated 2-Arylation/Alkylation/Acylation of Benzothiazoles with Aldehydes in Water**

Min Hua, Chunqin Wang, Qixing Liu,\* Danyi Chen, Hao Fu, and Haifeng Zhou\*

Benzothiazole

Benzothiazole 2-Alkylation

Benzothiazole 2-Arylation



Benzothiazole 2-Acylation

**SHORT PAPERS**
**1239 Synthesis of Bicyclo[2.2.2]octadiene-Fused Sapphyrins and Their Thermal Conversion**

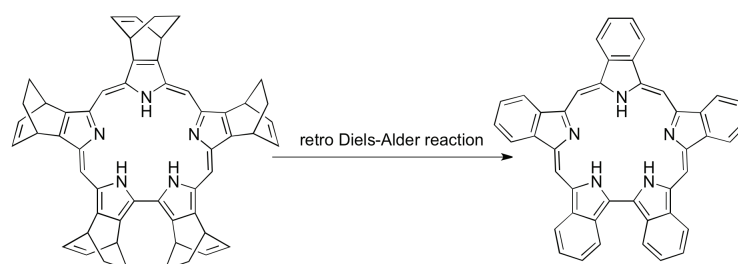
Tetsuo Okujima,\* Toshiki Abe, Shigeki Mori, Takahiro Nakae, and Hidemitsu Uno

Sapphyrin

Ring-Expanded Porphyrin

 $\pi$ -Extended Porphyrin

Retro Diels–Alder Reaction


**1248 Synthesis of 5-Hydroxythieno[2,3-d]pyrimidin-6(5H)-one Derivatives by the Reaction of 2-(4-Chloropyrimidin-5-yl)-2-hydroxyalkanoate with Sodium Hydrogensulfide**

Kazuhiro Kobayashi,\* Ikuma Murayama, Ryoga Ono, Daiki Fujiwara, Hidetaka Hiyoshi, and Kazuto Umezumi

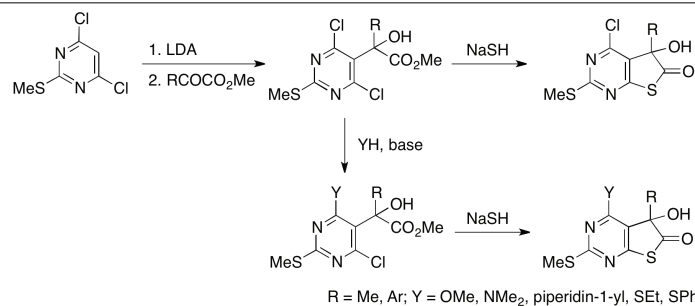
5-Hydroxythieno[2,3-d]pyrimidin-6(5H)-one

4,6-Dichloro-2-(methylsulfanyl)pyrimidine (DCSMP)

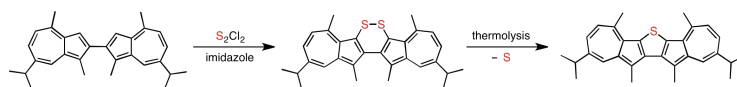
Lithiation

 $\alpha$ -Keto Ester

Sodium Hydrogensulfide

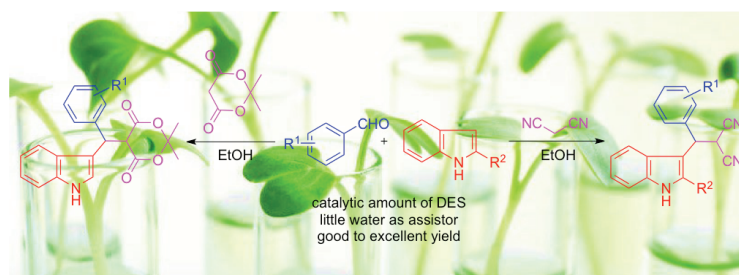


- 1259 Synthesis and Electrochemical Properties of 2,2'-Biguaiazulene-Based 1,2-Dithiin and Thiophene**  
 Ohki Sato\* and Ryuto Sakai



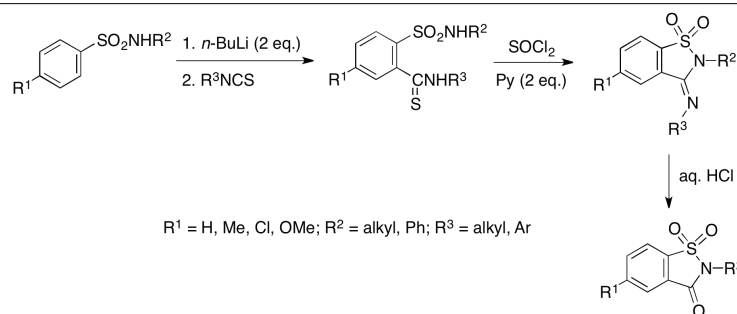
2,2'-Biguaiazulene    1,2-Dithiin    Thiophene    Ring Condensed System    Cyclic Voltammetry

- 1266 Water Assisted and Choline Chloride-Dimethylurea Deep Eutectic Salts as Catalyst towards the Attractive Reaction of Indole, Benzaldehyde, and Malononitrile**  
 Hongli Ruan, Yue Lv, Shijun Yu, Chengwei Lv,\* and Yue An\*



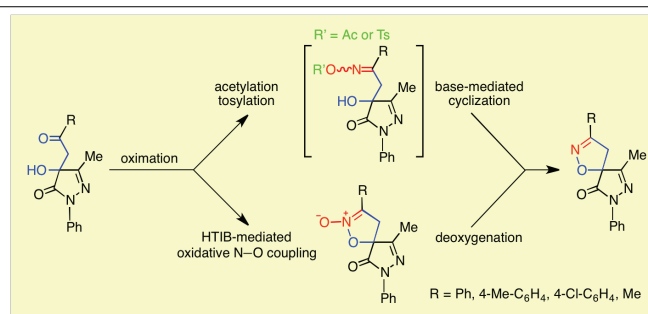
Deep Eutectic Solvent    Yonemitsu Type Reaction    Malononitrile    3-Substituted Indole    Synthetic Method

- 1275 Synthesis of (*E*)-*N*-Substituted 1,2-Benzothiazol-3(2*H*)-imine 1,1-Dioxide Derivatives from Secondary Benzenesulfonamides and Isothiocyanates**  
 Kazuhiro Kobayashi\* and Daiki Fujiwara



1,2-Benzothiazol-3(2*H*)-imine 1,1-Dioxide    2,*N*-Dilithiobenzenesulfonamide    Lithiation    *N*-Substituted Saccharin    Thionyl Chloride

- 1289 Synthesis and DNA Cleavage Activity of Novel Spiro Pyrazol-3-ones Containing Isoxazoline Moiety**  
 Eiichi Masumoto, Emi Shirouzu, Nobuhiro Kashige, Fumi Okabe-Nakahara, Fumio Miake, Kenji Yamagata, and Hiroshi Maruoka\*



Pyrazole    Isoxazoline    Spiro Pyrazol-3-one Derivative    Oxime    DNA Cleavage

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

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- 1301 Polyketides
  - 1303 Aromatics
  - 1306 Terpenes
  - 1307 Alkaloids
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■ BRUSH UP YOUR HETEROCYCLES

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- 1315 Brush Up Your Heterocycles
-

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