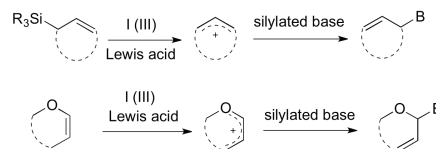
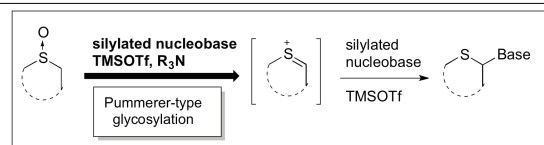


■ REVIEW

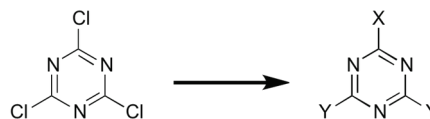
- 1625 **Development of a Glycosylation Reaction: A Key to Accessing Structurally Unique Nucleosides**
Yuichi Yoshimura*



Nucleoside Glycosylation Reaction Pummerer Reaction Antitumor Activity Antiviral Activity

■ PAPERS

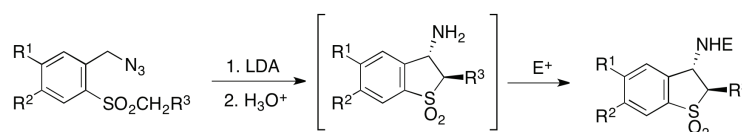
- 1653 **Antiviral Activities of Some New 2,4,6-Trisubstituted 1,3,5-Triazines Having Alkoxy and/or Alkylamino Groups**
Nobuko Mibu, Kazumi Yokomizo, Ai Yuzuriha, Marie Otsubo, Yuna Kawaguchi, Marina Sano, Izumi Sakai, Keita Nakayama, Jian-Rong Zhou, and Kunihiro Sumoto*



Anti-HSV-1 activity (EC_{50}) and cytotoxicity (CC_{50}) against Vero cells of 2,4,6-trisubstituted 1,3,5-triazine derivatives having alkoxy and/or alkylamino groups

C_3 -Symmetry C_5 -Symmetry 2,4,6-Trisubstituted 1,3,5-Triazine Anti-Herpes Simplex Virus Type 1 Activity Cytotoxic Activity Against Vero Cells

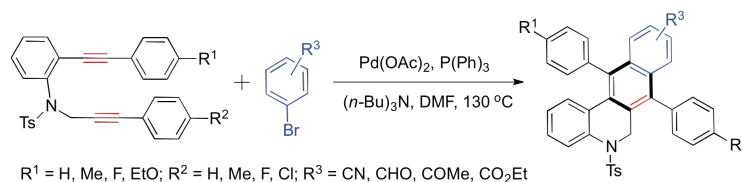
- 1678 **Synthesis of 2,3-Dihydrobenzo[*b*]thiophen-3-amine 1,1-Dioxide Derivatives via LDA-Mediated Cyclization of *o*-(Alkylsulfonyl)benzyl Azides with Denitrogenation**
Kazuhiro Kobayashi,* Yuuki Chikazawa, and Takashi Nogi



$R^1 = H, Me, Cl, OMe$; $R^2 = H, OMe$; $R^3 = H, alkyl, Ph$; $E^+ = Ac_2O, ClCO_2Et, PhNCS$

2,3-Dihydrobenzo[*b*]thiophene *o*-(Alkylsulfonyl)benzyl Azide α -Anion of Sulfone Benzyl Anion Benzylidenaminide

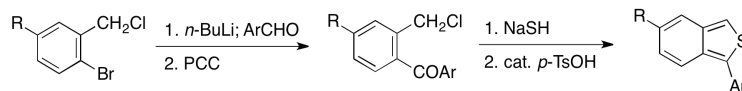
- 1693 **Synthesis of Highly Substituted 5,6-Dihydrobenzo[*l*]phenanthridine Derivatives via Domino Reaction**
Yuqin Wu, Lidong Li, Liangyun Yu, Zhang Qi, Feng Xue, and Xu Qi*



$R^1 = H, Me, F, EtO$; $R^2 = H, Me, F, Cl$; $R^3 = CN, CHO, COMe, CO_2Et$

Dihydrophenanthridine Palladium Catalyst Cyclization Reaction C–H Activation

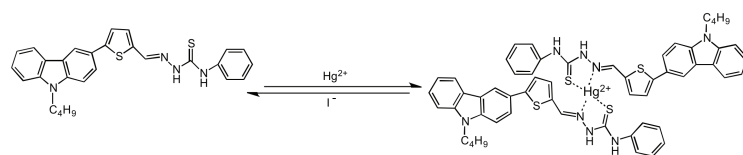
- 1707** An Efficient Synthesis of 1-Arylbenzo[*c*]thiophenes via the Reaction of 2-(Chloromethyl)phenyllithiums with Aromatic Aldehydes
 Kazuhiro Kobayashi,* Yuuya Honda, and Yuuho Shigemura



Benzo[*c*]thiophene 2-(Chloromethyl)phenyllithium Bromine/Lithium Exchange Reaction Sodium Hydrosulfide Dehydration Reaction

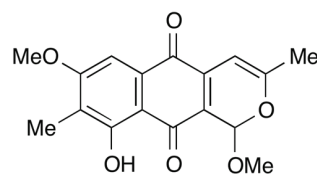
■ SHORT PAPERS

- 1719** A New Fluorescence Chemosensor for Hg²⁺ Based on Carbazole and Thiourea
 Fang-fang Yin, Wei-ju Zhu, Min Fang, Zhen-yu Wu, Ying Xu, Hai-lun Wang, Yao Wang, and Cun Li*



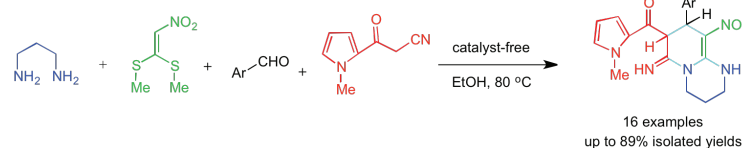
Carbazole Thiourea Hg²⁺ Reversible Coordination Reaction Colorimetric Sensor

- 1728** A Cytotoxic Pyranonaphthoquinone from Cultured Lichen Mycobionts of *Haematomma* sp.
 Yukiko Takenaka, Yoshiyuki Mizushima, Nobuo Hamada, and Takao Tanahashi*



Pyranonaphthoquinone Lichen Mycobiont *Haematomma* sp. DNA Polymerase Cytotoxicity

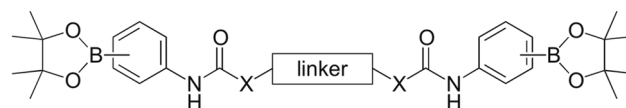
- 1736** Catalyst-Free Multicomponent Formation of Novel Acylpyrrole-Containing 6-Imino-6,6-dihydro-1*H*-pyrido[1,2-*a*]pyrimidine Derivatives
 Xiaohua Wu, Zheng Zhao, Yuwei Song, and Cheng Guo*



Catalyst-Free Conditions 2-Cyanoacetylpyrrole Four-Component Selective Reaction Acylpyrrole-Containing Pyrido[1,2-*a*]pyrimidine

1748 Novel C₂-Symmetrical Phenylboronic Acid Pinacol Esters with a Few Types of Linkers and Their Biological Activities

Makoto Furutachi, Toshiaki Gondo, Saho Goto, Saho Fuchigami, Kenta Ako, Yuki Oowada, Kazumi Yokomizo, Jian-Rong Zhou, Tomohiro Ishizaki, Takahiro Koga, Nobuhiro Kashige, Fumio Miake, and Kunihiro Sumoto*

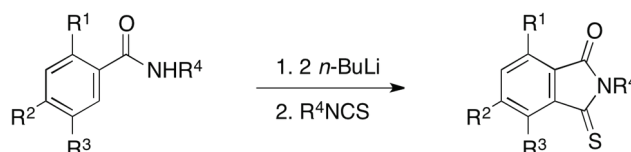


X = -CH₂- or -NH-

Phenylboronic Acid Pinacol Ester C₂-Symmetry Anti-HSV-1 Activity Antibacterial Activity Cytotoxic Activity

1759 One-Pot Synthesis of 2-Substituted 3-Thioxo-2,3-dihydro-1*H*-isoindol-1-ones by the Reaction of *N*-Substituted 2,*N*-Dilithiobenzamides with Isothiocyanates

Kazuhiro Kobayashi* and Daiki Fujiwara

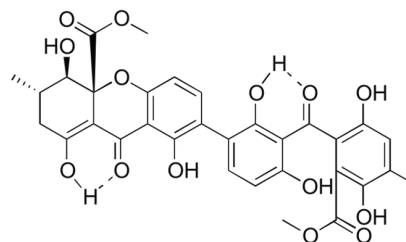


R¹ = H, Cl; R² = H, Cl, OMe; R³ = H, Cl, OMe; R⁴ = alkyl, aryl

3-Thioxoisindolin-1-one 3-Thioxo-2,3-dihydro-1*H*-isoindol-1-one Lithiation 2,*N*-Dilithiobenzamide Isothiocyanate

1766 Secalonic Acids H and I, Two New Secondary Metabolites from the Marine-Derived Fungus *Penicillium oxalicum*

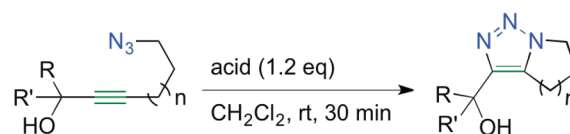
Li Chen, Yan-Xue Bi, Ya-Ping Li, Xin-Xin Li, Qin-Ying Liu, Min-Gang Ying, Qiu-Hong Zheng, Lin Du,* and Qi-Qing Zhang*



Penicillium oxalicum Secalonic Acid Marine-Derived Fungus Cytotoxicity

1775 Synthesis of Fused 1,2,3-Triazoles through Carbocation-Mediated Intramolecular [3+2] Cycloaddition of Azido-propargyl Alcohols

Youlai Zhang, Junru Li, Mengdi Wang, Huan Zhang,* Hiroki Tanimoto, Tsumoru Morimoto, and Kiyomi Kakiuchi



Intramolecular Reaction Fused 1,2,3-Triazole Propargyl Cation Organic Azide Cycloaddition Reaction

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

- 1783 Polyketides
 - 1788 Aromatics
 - 1790 Terpenes
 - 1792 Alkaloids
 - 1801 Miscellaneous
-

■ BRUSH UP YOUR HETEROCYCLES

- 1803 Brush Up Your Heterocycles
-

Contributors To This Issue

- 1748 Ako, Kenta
 1766 Bi, Yan-Xue
 1766 Chen, Li
 1678 Chikazawa, Yuuki
 1766 Du, Lin
 1719 Fang, Min
 1748 Fuchigami, Saho
 1759 Fujiwara, Daiki
 1748 Furutachi, Makoto
 1748 Gondo, Toshiaki
 1748 Goto, Saho
 1736 Guo, Cheng
 1728 Hamada, Nobuo
 1707 Honda, Yuuya
 1748 Ishizaki, Tomohiro
 1775 Kakiuchi, Kiyomi
 1748 Kashige, Nobuhiro
 1653 Kawaguchi, Yuna
 1678, 1707, 1759 Kobayashi, Kazuhiro
 1748 Koga, Takahiro
 1719 Li, Cun
 1775 Li, Junru
 1693 Li, Lidong
 1766 Li, Xin-Xin
 1766 Li, Ya-Ping
 1766 Liu, Qin-Ying
 1748 Miake, Fumio
 1653 Mibu, Nobuko
 1728 Mizushina, Yoshiyuki
 1775 Morimoto, Tsumoru
 1653 Nakayama, Keita
 1678 Nogi, Takashi
 1748 Oowada, Yuki
 1653 Otsubo, Marie
 1693 Qi, Xu
 1693 Qi, Zhang
 1653 Sakai, Izumi
 1653 Sano, Marina
 1707 Shigemura, Yuuho
 1736 Song, Yuwei
 1653, 1748 Sumoto, Kunihiro
 1728 Takenaka, Yukiko
 1728 Tanahashi, Takao
 1775 Tanimoto, Hiroki
 1719 Wang, Hai-lun
 1775 Wang, Mengdi
 1719 Wang, Yao
 1736 Wu, Xiaohua
 1693 Wu, Yuqin
 1719 Wu, Zhen-yu
 1719 Xu, Ying
 1693 Xue, Feng
 1719 Yin, Fang-fang
 1766 Ying, Min-Gang
 1653, 1748 Yokomizo, Kazumi
 1625 Yoshimura, Yuichi
 1693 Yu, Liangyun
 1653 Yuzuriha, Ai
 1775 Zhang, Huan
 1766 Zhang, Qi-Qing
 1775 Zhang, Youlai
 1736 Zhao, Zheng
 1766 Zheng, Qiu-Hong
 1653, 1748 Zhou, Jian-Rong
 1719 Zhu, Wei-ju