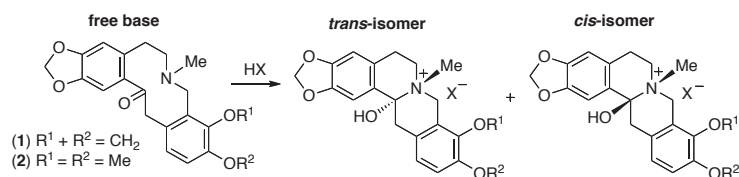


■ REVIEW

1773 The Chemical and Biological Properties of Protopine and Allocryptopine

Jan Vacek,* Daniela Walterová, Eva Vrublová, and Vilím Šimánek

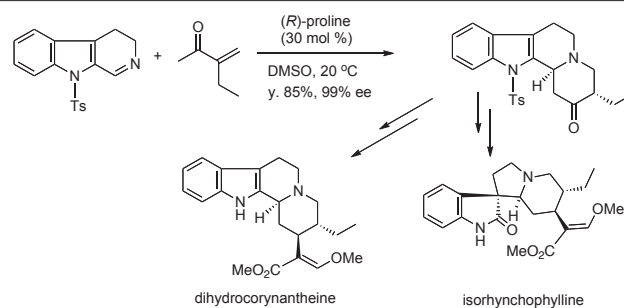


Isoquinoline Alkaloid Isolation and Analysis Biological Activity Metabolization Phytopreparation

■ PAPERS

 1791 Formal Syntheses of Dihydrocorynantheine and Isorhynchophylline *via* Proline Catalyzed Mannich-Michael Reaction

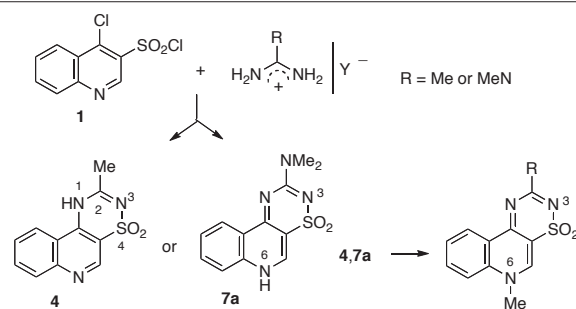
Kazuhiro Nagata, Hitomi Ishikawa, Ayako Tanaka, Michiko Miyazaki, Takuya Kanemitsu, and Takashi Itoh*



Alkaloid Asymmetric Catalyst Proline Mannich Reaction Total Synthesis

 1799 2-Methyl- and 2-Dimethylaminoquino[4,3-*e*]-1,2,4-thiadiazine 4,4-Dioxides – Synthesis, Structure and *N*-Methylation

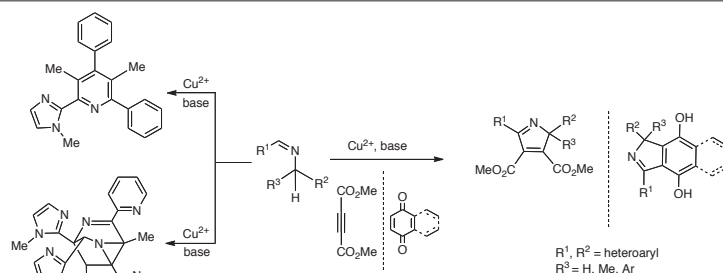
Elwira Chrobak, Michał Wlekiński, Andrzej Maślankiewicz,* Joachim Kusz, Maciej Zubko, and Andrzej Zięba



Quinoline 1,2,4-Thiadiazine Sulfonylguanidine Amino Dechlorination

1811 Copper-Mediated Oxidative Cyclization of Heterocyclically Substituted Aldimines

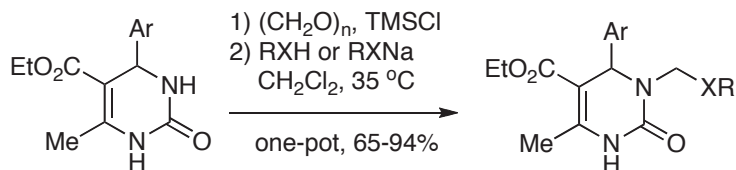
Daniela Pufky-Heinrich, Michael Ciesielski, Loubna Gharnati, Olaf Walter, and Manfred Doering*



Heterocyclization Copper Aldimine Cycloaddition Polycycle

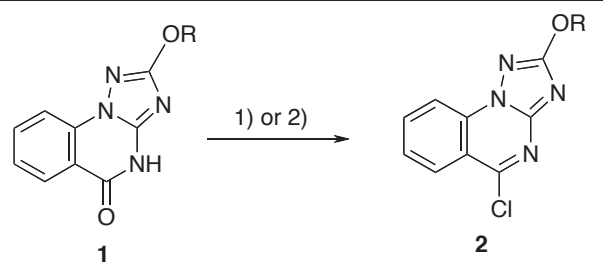
1827 One-Pot Two-Step Synthesis of *N*-3-Functionalized 3,4-Dihydropyrimidinones in the Presence of TMSCl

Zheng-Jun Quan,* Rong-Guo Ren, Yu-Xia Da, Zhang Zhang, Xiao-Dong Jia, Cai-Xia Yang, and Xi-Cun Wang*


N-3-Substituted Dihydropyrimidinone *N*-3-Chloromethyl-3,4-dihydropyrimidinone Dihydropyrimidinone One-Pot Reaction Chlorotrimethylsilane

1843 Novel Synthesis of 2-Alkoxy(Aralkoxy)-5-chloro[1,2,4]-triazolo[1,5-*a*]quinazolines and Their Derivatives

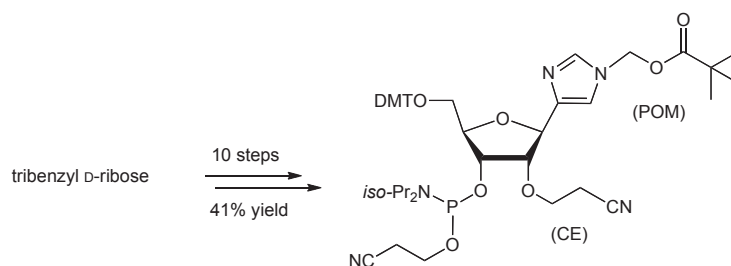
Rashad Al-Salahi* and Detlef Geffken


 1) C₂O₂Cl₂, 1,1,2-trichloroethane 2) POCl₃, benzene

Oxalyl Chloride Phosphoryl Chloride Hydrazine Hydrate Hydrazide and Carbazide Sodium Azide

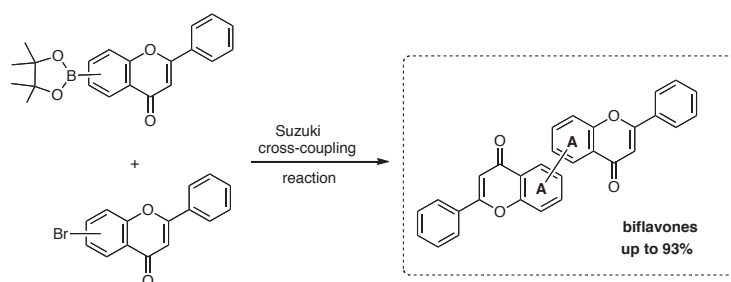
1861 Efficient Synthesis of 2'-*O*-Cyanoethylated Imidazole *C*-Ribonucleoside Phosphoramidite: A Practical Building Block for Probing the Catalytic Mechanism of Ribozymes

Lisa Araki, Zheng-yun Zhao, David M. J. Lilley, and Shinya Harusawa*


 Cyanoethyl Imidazole *C*-Ribonucleoside Phosphoramidite Ribozyme

1871 Efficient Synthesis of Biflavones Having A Ring-A Ring of Two Flavone Units Using Suzuki Cross-Coupling Reactions

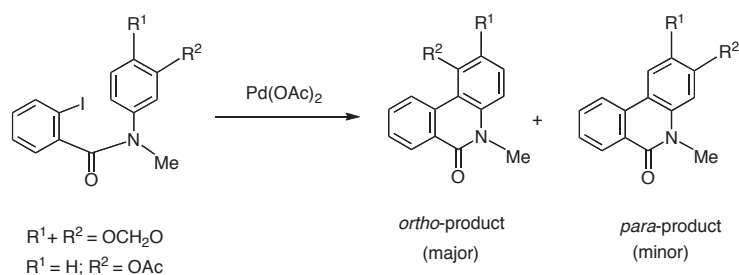
Yoshihito Kohari, Yukio Hoshino, Haruo Matsuyama, and Hiroto Nakano*



Flavonoid Biflavone Suzuki Cross-Coupling Reaction Borylated Flavone

1881 Effect of Oxygen Substituent in the Aniline Part of Benzanilide on the Regioselectivity in Direct Arylation Using Palladium-Phosphine Reagents

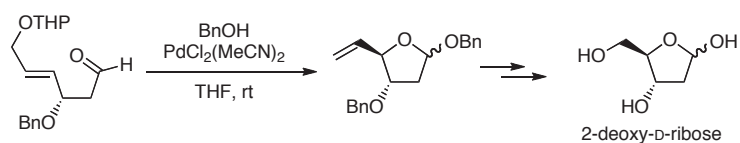
Takashi Harayama,* Mariko Asai, Taeko Miyagoe, Hitoshi Abe, Yasuo Takeuchi, Ayako Yamaguchi, and Shinya Fujii



Effect of Oxygen Substituent Direct Arylation Palladium Benzanilide Coordination Effect

1891 A New Synthetic Strategy for 2-Deoxy-D-ribose via Palladium(II)-Catalyzed Cyclization of Aldehyde

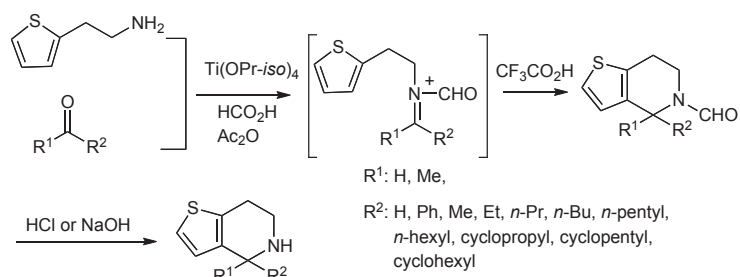
Masahiro Miyazawa,* Ken-ichiro Awasaguchi, Ikuyo Uoya, Hajime Yokoyama, and Yoshiro Hirai*



Carbohydrate Hemiacetal Tetrahydropyran Stereoselectivity Anomeric Effect

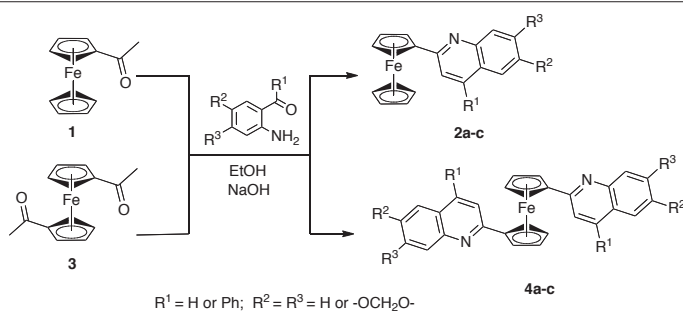
1903 An Efficient and Convenient Synthesis of 4,5,6,7-Tetrahydrothieno[3,2-*c*]pyridines by a Modified Pictet-Spengler Reaction via a Formyliminium Ion Intermediate

Michikazu Kitabatake, Aki Hashimoto, Toshiaki Saitoh, Takehiro Sano, Kunihiko Mohri, and Yoshie Horiguchi*


 4,5,6,7-Tetrahydrothieno[3,2-*c*]pyridine Pictet-Spengler Reaction Formyliminium Ion Acid Catalyzed Cyclization One Pot Procedure

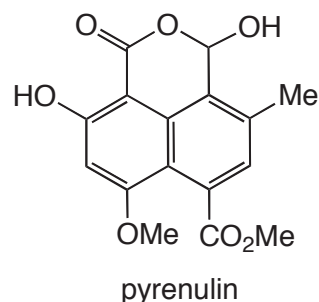
NOTES
1923 Synthesis of Quinoline-Bearing Ferrocene Derivatives via Friedländer Reaction of Acetyl- and 1,1'-Diacetylferrocenes with *o*-Amino Aryl Aldehydes

Wentao Gao,* Xiuping Cheng, and Yang Li


 Quinolyferrocene Friedländer Reaction Acetylferrocene *o*-Amino Aryl Aldehyde Synthesis

1931 Naphthopyrones from Cultured Lichen Mycobionts of *Pyrenula* sp.

Yukiko Takenaka, Naotaka Nagakura, Nobuo Hamada, and Takao Tanahashi*


Pyrenula sp. Lichen Isolated Mycobiont Naphthopyrone Structure Elucidation

■ NEW HETEROCYCLIC NATURAL PRODUCTS

- 1937 Polyketides
 - 1939 Aromatics
 - 1943 Terpenes
 - 1958 Alkaloids
-

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

- 1963 Polyketides
 - 1968 Aromatics
 - 1971 Steroids
 - 1972 Alkaloids
 - 1977 Miscellaneous
-

Contributors To This Issue

- | | | | |
|------|-------------------------|------|-------------------|
| 1881 | Abe, Hitoshi | 1827 | Wang, Xi-Cun |
| 1843 | Al-Salahi, Rashad | 1799 | Wlekiński, Michał |
| 1861 | Araki, Lisa | 1881 | Yamaguchi, Ayako |
| 1881 | Asai, Mariko | 1827 | Yang, Cai-Xia |
| 1891 | Awasaguchi, Ken-ichiro | 1891 | Yokoyama, Hajime |
| 1923 | Cheng, Xiuping | 1827 | Zhang, Zhang |
| 1799 | Chrobak, Elwira | 1861 | Zhao, Zheng-yun |
| 1811 | Ciesielski, Michael | 1799 | Zięba, Andrzej |
| 1827 | Da, Yu-Xia | 1799 | Zubko, Maciej |
| 1811 | Doering, Manfred | | |
| 1881 | Fujii, Shinya | | |
| 1923 | Gao, Wentao | | |
| 1843 | Geffken, Detlef | | |
| 1811 | Gharnati, Loubna | | |
| 1931 | Hamada, Nobuo | | |
| 1881 | Harayama, Takashi | | |
| 1861 | Harusawa, Shinya | | |
| 1903 | Hashimoto, Aki | | |
| 1891 | Hirai, Yoshiro | | |
| 1903 | Horiguchi, Yoshie | | |
| 1871 | Hoshino, Yukio | | |
| 1791 | Ishikawa, Hitomi | | |
| 1791 | Itoh, Takashi | | |
| 1827 | Jia, Xiao-Dong | | |
| 1791 | Kanemitsu, Takuya | | |
| 1903 | Kitabatake, Michikazu | | |
| 1871 | Kohari, Yoshihito | | |
| 1799 | Kusz, Joachim | | |
| 1923 | Li, Yang | | |
| 1861 | Lilley, David M. J. | | |
| 1799 | Maślankiewicz, Andrzej | | |
| 1871 | Matsuyama, Haruo | | |
| 1881 | Miyagoe, Taeko | | |
| 1791 | Miyazaki, Michiko | | |
| 1891 | Miyazawa, Masahiro | | |
| 1903 | Mohri, Kunihiko | | |
| 1931 | Nagakura, Naotaka | | |
| 1791 | Nagata, Kazuhiro | | |
| 1871 | Nakano, Hiroto | | |
| 1811 | Pufky-Heinrich, Daniela | | |
| 1827 | Quan, Zheng-Jun | | |
| 1827 | Ren, Rong-Guo | | |
| 1903 | Saitoh, Toshiaki | | |
| 1903 | Sano, Takehiro | | |
| 1773 | Šimánek, Vilím | | |
| 1931 | Takenaka, Yukiko | | |
| 1881 | Takeuchi, Yasuo | | |
| 1931 | Tanahashi, Takao | | |
| 1791 | Tanaka, Ayako | | |
| 1891 | Uoya, Ikuyo | | |
| 1773 | Vacek, Jan | | |
| 1773 | Vrublová, Eva | | |
| 1811 | Walter, Olaf | | |
| 1773 | Walterová, Daniela | | |