

JOURNAL OF THE CHEMICAL SOCIETY

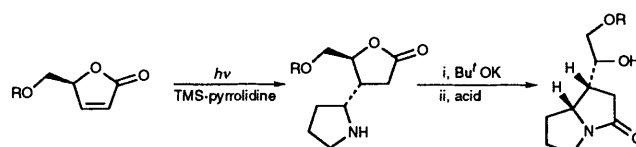
Perkin Transactions 1

Organic and Bio-organic Chemistry

CONTENTS

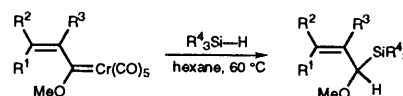
Perkin Communications

- 2141 **Photocatalysed addition of pyrrolidines to butenolides: a concise synthesis of the pyrrolizidine alkaloid ring system**



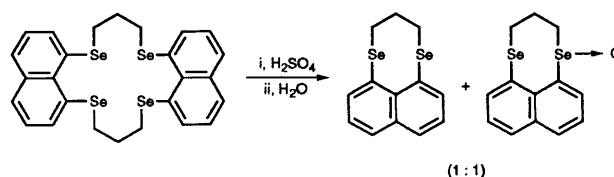
Elson Santiago de Alvarenga and John Mann

- 2143 **Synthesis of allylsilanes from the [2 + 1] insertion reaction of alkenyl Fischer carbene complexes with silanes**



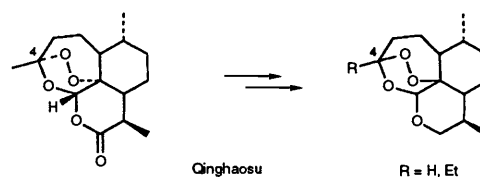
Chi Ching Mak and Kin Shing Chan

- 2145 **Preparation and X-ray structure of 8,9,19,20-tetrahydrodinaphtho[1',8'-jk; 1,8-bc]-[1,5,9,13]tetraselenacyclohexadecine, and its novel ring contraction in concentrated sulfuric acid**

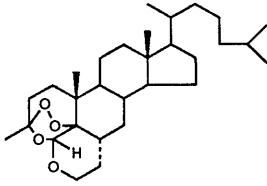
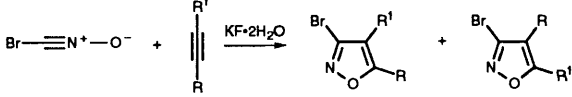


Hisashi Fujihara, Masayoshi Yabe, Megumi Ikemori and Naomichi Furukawa

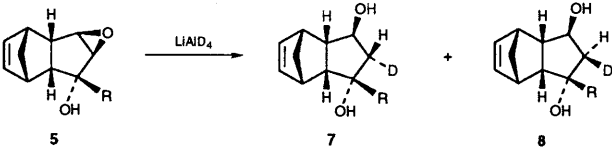
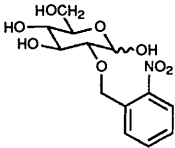
- 2147 **Synthesis of C-4-substituted qinghaosu analogues**



Ya-Jing Rong and Yu-Lin Wu

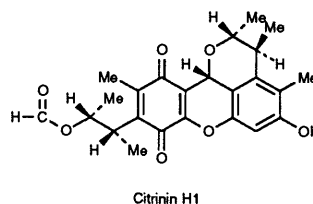
<p>2149 Synthesis of steroidal 1,2,4-trioxane as potential antimalarial agent</p> <p>Ya-Jing Rong and Yu-Lin Wu</p>	 <p>A new qinghaosu analogue with a combination of the crucial 1,2,4-trioxane moiety and a lipophilic cholesterol skeleton has been synthesized</p>
<p>2151 Nitrile oxide cycloaddition of non-activated alkynes: a novel approach to the synthesis of neuroactive isoxazoles</p> <p>Paolo Pevarello, Raffaella Amici, Maristella Colombo and Mario Varasi</p>	 <p>$R = \text{Me}, \text{CH}_2\text{OH}, \text{CH}_2\text{Cl}$ $R' = \text{CH}_2\text{OH}, \text{CH}_2\text{CH}_2\text{OH}, \text{CH}_2\text{Cl}, (\text{CH}_2)_4\text{Me}$</p> <p>A general method for the 1,3-dipolar cycloaddition of bromonitrile oxide to disubstituted non-activated alkynes provides an alternative route to the neuropharmacological tools AMPA and 4-methyl-homoibotenic acid</p>
<p>2153 New synthesis of dialkyl fluoroalkynylphosphonates</p> <p>Yanchang Shen and Ming Qi</p>	$\text{MeP(O)(OR}^1)_2 \xrightarrow{2 \text{ steps}} \text{R}_f\text{C}\equiv\text{CP(O)(OR}^1)_2$ <p>Dialkyl fluoroalkynylphosphonates have been conveniently synthesised in two steps from dialkyl methylphosphonates</p>

Articles

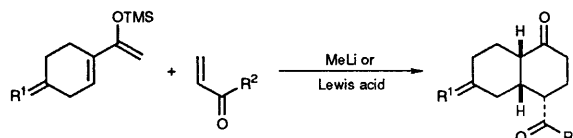
<p>2155 A reinvestigation of the reductive ring-opening of a 3-substituted <i>exo</i>-4,5-epoxytricyclo-[5.2.1.0^{2,6}]dec-8-en-3α-ol to the corresponding 3,5-diol</p> <p>Zhi-Yu Liu and Xin-Jie Chu</p>	 <p>LiAlD_4 reduction of the title compounds 5 effected direct epoxide ring-opening to afford 7 as the primary pathway</p>
<p>2161 Synthesis, photochemistry and enzymology of 2-<i>O</i>-(2-nitrobenzyl)-D-glucose, a photolabile derivative of D-glucose</p> <p>John E. T. Corrie</p>	 <p>A synthesis of the title compound is described via Bu_2SnO-catalysed alkylation of methyl 4,6-<i>O</i>-benzylidene-α-D-glucopyranoside</p>

2167 **Formation of a new toxic compound, citrinin H1, from citrinin on mild heating in water**

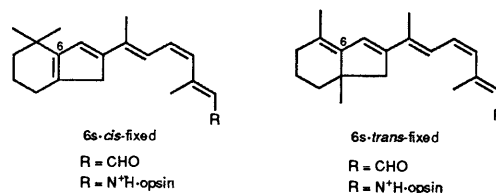
Alka Ben Trivedi, Mitsuru Hirota, Etsushiro Doi and Naofumi Kitabatake

2173 **Annulation by sequential double Michael reaction; synthesis of decalones and its application to the syntheses of ϵ -cadinene, khusitone and khusilal**

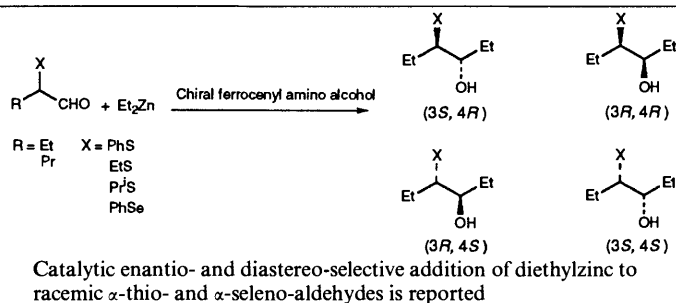
Hisahiro Hagiwara, Tsutomu Akama, Akihiro Okano and Hisashi Uda

2185 **Retinoids and related compounds. Part 15. Synthesis and spectral characterization of bicyclic retinals involving the 8-18 or 8-16 bonded structure**

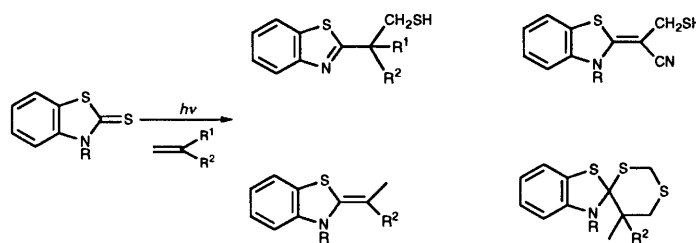
Yuko Katsuta, Miho Sakai and Masayoshi Ito

2193 **Catalytic enantio- and diastereo-selective addition of diethylzinc to racemic α -thio- and α -seleno-aldehydes: asymmetric synthesis of optically active vicinal thio- and seleno-alcohols**

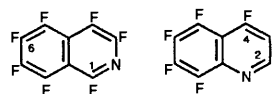
Makoto Watanabe, Mineo Komota, Masamichi Nishimura, Shuki Araki and Yasuo Butsugan

2197 **Photochemical reactions of benzothiazole-2-thiones**

Takehiko Nishio, Yo-ichi Mori and Akira Hosomi

2201 **Remarkable orientational effects in the displacement of the fluorine from heptafluoroisoquinoline and -quinoline towards sulfur nucleophiles. Further reactions with oxygen nucleophiles**

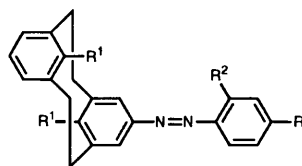
Gerald M. Brooke, Richard D. Chambers, Christopher J. Drury and in part, Michael J. Bower



Surprisingly, sulfur nucleophiles attack polyfluoroisoquinoline predominantly at the 6-position and polyfluoroquinoline at the 4-position

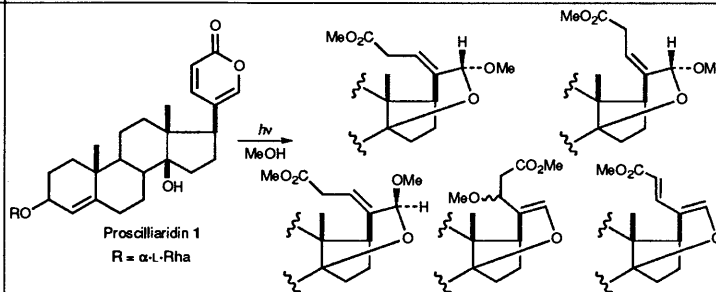
2211 Evaluation of through-space interaction in [2.2]metacyclophanes by diazo coupling reaction

Akihiko Tsuge, Tetsuji Moriguchi, Shuntaro Mataka and Masashi Tashiro



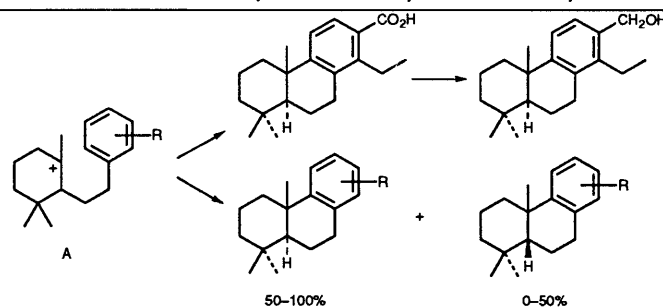
2217 Photochemical transformation of bufadienolide into 14 β ,21-epoxycholeanes *via* photolytic methanolysis

Takahiro Tanase, Nobutoshi Murakami, Akito Nagatsu and Jinsaku Sakakibara



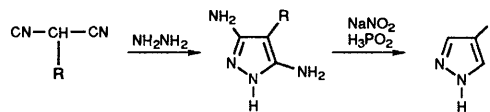
2223 Stereoselective synthesis of (\pm)-veadeiroic acid and (\pm)-veadeirol by cyclisation of a 2-(2-arylethyl)-1,3,3-trimethylcyclohexyl cation: mechanism and stereochemistry of related cycloalkylation reactions

Arabinda Saha and Dhanonjoy Nasipuri



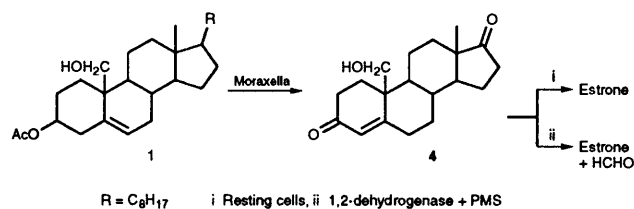
2229 Synthesis of 4-alkylpyrazoles from 3,5-diaminopyrazoles

Aurea Echevarría, José Elguero, Gloria I. Yranzo, Enrique Diez-Barra, Antonio de la Hoz, Andrés Moreno and Miguel Angel Garcia-Martín



2233 Evidence for a new pathway in the microbial conversion of 3 β -acetoxycholest-5-en-19-ol into estrone

V. N. Shankar, T. N. Guru Row and K. M. Madyastha



AUTHOR INDEX

- Akama, Tsutomu, 2173
Amici, Raffaella, 2151
Araki, Shuki, 2193
Bower, Michael J., 2201
Brooke, Gerald M., 2201
Butsugan, Yasuo, 2193
Chambers, Richard D., 2201
Chan, Kin Shing, 2143
Chu, Xin-Jie, 2155
Colombo, Maristella, 2151
Corrie, John E. T., 2161
de Alvarenga, Elson Santiago,
2141
de la Hoz, Antonio, 2229
Diez-Barra, Enrique, 2229
Doi, Etsushiro, 2167
Drury, Christopher J., 2201
Echevarría, Aurea, 2229
Elguero, José, 2229
Fujihara, Hisashi, 2145
Furukawa, Naomichi, 2145
García-Martín, Miguel Angel,
2229
Guru Row, T. N., 2233
Hagiwara, Hisahiro, 2173
Hirota, Mitsuru, 2167
Hosomi, Akira, 2197
Ikemori, Megumi, 2145
Ito, Masayoshi, 2185
Katsuta, Yuko, 2185
Kitabatake, Naofumi, 2167
Komota, Mineo, 2193
Liu, Zhi-Yu, 2155
Madyastha, K. M., 2233
Mak, Chi Ching, 2143
Mann, John, 2141
Mataka, Shuntaro, 2211
Moreno, Andrés, 2229
Mori, Yo-ichi, 2197
Moriguchi, Tetsuji, 2211
Murakami, Nobutoshi, 2217
Nagatsu, Akito, 2217
Nasipuri, Dhanonjoy, 2223
Nishimura, Masamichi, 2193
Nishio, Takehiko, 2197
Okano, Akihiro, 2173
Pevarello, Paolo, 2151
Qi, Ming, 2153
Rong, Ya-Jing, 2147, 2149
Saha, Arabinda, 2223
Sakai, Miho, 2185
Sakakibara, Jinsaku, 2217
Shankar, V. N., 2233
Shen, Yanchang, 2153
Tanase, Takahiro, 2217
Tashiro, Masashi, 2211
Trivedi, Alka Ben, 2167
Tsuge, Akihiko, 2211
Uda, Hisashi, 2173
Varasi, Mario, 2151
Watanabe, Makoto, 2193
Wu, Yu-Lin, 2147, 2149
Yabe, Masayoshi, 2145
Yranzo, Gloria I., 2229

NOTE: An asterisk in the heading of each paper indicates the author who is to receive any correspondence.

