

JOURNAL OF THE CHEMICAL SOCIETY

Perkin Transactions 1

Organic and Bio-organic Chemistry

CONTENTS

- 2061 Reactions involving fluoride ion. Part 35. Fluorinated derivatives of benzyl anions **Richard D. Chambers, Martin P. Greenhall and Mark J. Seabury**
- 2065 Biosynthesis of cholesterol and lanosterol in isolated dog hepatocytes: incorporation of [1,2-¹³C₂]- and [2-¹³C²H₃]-acetate, and [1-¹³C]acetate and [1-²H₂]ethanol **Shujiro Seo, Hiroyuki Saito, Atsuko Uomori, Yohko Yoshimura, Kanya Tonda, Yasuhiro Nishibe, Masaharu Hirata, Yasuyoshi Takeuchi, Ken'ichi Takeda, Hiroshi Noguchi, Yutaka Ebizuka, Ushio Sankawa and Haruo Seto**
- 2073 Pyrrolidine analogues of 2',3'-dideoxynucleosides: synthesis *via* 9-aminopurines and 1-aminopyrimidines **Michael R. Harnden and Richard L. Jarvest**
- 2081 Application of 3-oxabicyclo[3.2.0]hept-6-ene-2,4-dione (cyclobut-3-ene-1,2-dicarboxylic anhydride) as an acetylene equivalent in cycloadditions **J. I. G. Cadogan, Donald K. Cameron, Ian Gosney, Edward J. Tinley, Stuart J. Wyse and Alicia Amaro**
- 2089 Claisen rearrangement of prenyl ethers of isomeric acetylnaphthols and bisprenyl ethers of 4,6- and 2,4- diacetyl-resorcinols **Ammanamanchi S. R. Anjaneyulu and Balagopala M. Isaa**
- 2095 Aryllead triacetates: regioselective reagents for *N*-arylation of amines **Derek H. R. Barton, Dervilla M. X. Donnelly, Jean-Pierre Finet and Patrick J. Guiry**
- 2103 Free-radical reactions of benzenethiol and diphenyl disulphide with alkynes. Chemical reactivity of intermediate 2-(phenylthio)vinyl radicals **Luisa Benati, Pier Carlo Montevocchi and Piero Spagnolo**
- 2111 Synthesis and properties of *N*-cyanodimethyltetradecahydro-trideca-, -pentadeca-, -heptadeca-, and -nonadeca-azafulvenes and benzannelated *N*-cyanotridecaazafulvene derivatives **Jūro Ojima, Hiroyuki Higuchi, Yoichi Sata, Hiroyuki Yamamoto, Toru Koizumi, Masahiko Iyoda and Gaku Yamamoto**
- 2121 Synthetic studies on antibiotic validamycins. Part 14. Total synthesis of (+)-validamycins C, D and F **Yasunobu Miyamoto and Seiichiro Ogawa**
- 2129 *ortho*-Aryloxylation of *N*-substituted benzamides: a new oxidizing process induced by the copper(II)/trimethylamine *N*-oxide system **Olivia Reinaud, Patrice Capdevielle and Michel Maumy**
- 2135 New short step synthesis of A,B-aromatic oxasteroids by intra- and inter-molecular Diels-Alder reactions of 1,2-naphthoquinone dimethides generated from substituted 1,2-cyclobutanaphthalenes **Kazuhiro Kobayashi, Masahito Itoh and Hiroshi Sugimoto**
- 2139 Studies on the Fischer indole synthesis: rearrangements of five-, six- and seven-membered cyclic hydrazones of pyrazoline, tetrahydropyridazine and tetrahydro-1,2-diazepine series in polyphosphoric acid **Tiziana Benincori, Elisabetta Brenna and Franco Sannicolò**
- 2147 Trifluoromethylation of aliphatic halogen compounds **Jean-Philippe Bouillon, Christian Maliverney, Robert Merényi and Heinz G. Viehe**
- 2151 Synthesis of dibenz[*a,c*]anthracene 1,2-oxide and 3,4-oxide from dibromotrifluoroacetates: concomitant formation of oxepines **Panna L. Kole and Subodh Kumar**
- 2157 Highly stereoselective boron trifluoride-promoted 5-*endo* cyclisation of epoxy-allylic stannanes **Makoto Yoshitake, Makoto Yamamoto, Shigeo Kohmoto and Kazutoshi Yamada**
- 2161 Facile regio- and stereo-chemical control in epoxy-allylic stannane cyclisations **Makoto Yoshitake, Makoto Yamamoto, Shigeo Kohmoto and Kazutoshi Yamada**

- 2169 Some studies on peptide analogues involving the sulphinamide group **David Merricks, Peter G. Sammes, Edward R. H. Walker, Kim Henrick and Mary M. McPartlin**
- 2177 The reaction of some substituted 2 α ,3 α -epoxy-5 α -hydroxyandrostanes with hydrogen bromide in acetic acid **Nazar Flaih, James R. Hanson and Peter B. Hitchcock**
- 2183 4-(2'-Hydroxyphenylmethylene)-2-phenyloxazol-5(4H)-one: a comedy of errors **Sir John Cornforth and Du Ming-hui**
- 2189 Arene oxides of quinoline: epoxidation, *N*-oxidation and *N*-methylation reactions **Derek R. Boyd, R. Jeremy H. Davies, Lynne Hamilton, John J. McCullough and H. Patricia Porter**
- 2193 Stereoselectivity in electrophile-mediated cyclisations. Ag^I-catalysed synthesis of disubstituted pyrrolidines; crystal structure of *cis*-5-phenyl-*N*-tosylpyrrolidin-2-ylmethyl 4-bromobenzoate **Timothy Gallagher, Stephen W. Jones, Mary F. Mahon and Kieran C. Molloy**
- 2199 New 1*H*-benzotriazole-mediated synthesis of *N,N'*-disubstituted thioureas and carbodiimides **Alan R. Katritzky and Mikhail F. Gordeev**
- 2205 Diastereoselective free-radical reactions. Part 2. Synthesis of 2-deoxy- β -C-pyranosides by diastereoselective hydrogen-atom transfer **David Crich and Linda B. L. Lim**
- 2209 Diastereoselective free-radical reactions. Part 3. The methyl glucopyranos-1-yl and the 1,2-*O*-isopropylidene-glucopyranos-1-yl radicals: conformational effects on diastereoselectivity **David Crich and Linda B. L. Lim**
- 2215 Biosynthetic origins of the polycyclic xanthone antibiotic, citreamicin **Guy T. Carter, Donald B. Borders, Joseph J. Goodman, Joseph Ashcroft, Michael Greenstein, William M. Maiese and Cedric J. Pearce**
- 2221 Chemistry of bis-spiroacetals: synthesis of *cis*- and *trans*-1-(2-methyl-1,6,8-trioxadispiro[4.1.5.3]pentadec-13-en-2-yl)methanol **Margaret A. Brimble, Geoffrey M. Williams and Raymond Baker**
- 2229 Synthesis and nuclear magnetic resonance studies of some L-fucosyl-containing disaccharides **Herbert Baumann, Per-Erik Jansson and Lennart Kenne**
- 2235 Chemoenzymatic approach to the preparation of regioselectively modified cyclodextrins. The substrate specificity of the enzyme cyclodextrin glucosyltransferase (CGTase) **Sylvain Cottaz, Christine Apparu and Hugues Driguez**
- 2243 Conformationally restricted spin labelled nucleotides: a model study of the synthesis and properties of the 2',3'-*O*-spiro ketal of uridine and 4-oxo-2,2,6,6-tetramethyl-1-piperidyloxy **Dario R. Alessi, John E. T. Corrie, James Feeney, Ian P. Trayer and David R. Trentham**
- 2249 Rearrangement of sulphonium ylides of the 1*H*-1,4-thiazine type **Robert Foster and Thomas L. Gilchrist**
- 2255 Stereoselective protonation and reduction of β -sulphinyl enamines. X-Ray molecular structure of *N*-benzyl-2-(*p*-tolylsulphinyl)propylamine **Robert Kawęcki, Lech Kozerski, Zofia Urbańczyk-Lipkowska and Gabriele Bocelli**
- 2261 Quinoline alkaloids. Part 28. The biosynthesis of furoquinolines and other hemiterpenoids in *Ptelea trifoliata* **Charles F. Neville, Michael F. Grundon, Venkataraman N. Ramachandran, Geisla Reisch and Johannes Reisch**

Perkin Communications

- 2269 Synthesis of silylated ketenimines from a metallated *N*-phenyl α -trimethylsilyl imido thioester **Nadia Lage, Serge Masson and André Thuillier**
- 2270 Highly enantioselective transformations of ferrocene-containing substrates by bacterial lipases **Mahn-Joo Kim, Hangjin Cho and Yoon Kyung Choi**
- 2272 Catalysed 1,2- vs. 1,4-addition of 3,4-dichlorocyclobut-3-ene-1,2-dione with unsaturated organosilanes **Masatomi Ohno, Yoshihiko Yamamoto and Shoji Eguchi**
- 2274 Montmorillonite substrate selectivity in alcohol oxidation **Boyapati M. Choudary, Santi Shobha Rani, Yarlagadda V. Subba Rao and Mannepalli Lakshmi Kantam**
- 2275 Lithiation of (dialkylaminomethyl)trimethylsilanes **Kiyotaka Marumo, Sumie Inoue, Yoshiro Sato and Hideo Kato**
- 2276 Whole cell catalysed kinetic resolution of 6-azabicyclo[3.2.0]hept-3-en-7-one: synthesis of (–)-cispentacin (FR 109615) **Chris Evans, Ray McCague, Stanley M. Roberts, Alan G. Sutherland and Richard Wisdom**
- 2277 Spirocyclisation modes in the formation of tricyclospirodienones **David Hobbs-Mallyon and Donald A. Whiting**
- 2279 A convenient stereoselective synthesis of D-*erythro*-C₁₈-sphingosine from galactal **Norihiko Hirata, Yoshiro Yamagiwa and Tadao Kamikawa**
- 2280 Nectriachryson, a new metabolite related to fusarubin produced by the fungus *Nectria haematococca* **Denise Parisot, Michel Devys and Michel Barbier**
- 2281 Thermal and Lewis acid-promoted novel asymmetric hetero Diels-Alder reactions of a 1-thiabuta-1,3-diene system (thiochalcones) with (–)-dimethyl fumarate **Shinichi Motoki, Takao Saito, Takayuki Karakasa, Hideo Kato, Teruki Matsushita and Satoshi Hayashibe**
- 2283 General and convenient route to alkenylidenecyclopropanes: generation of alkenylidenecarbenes from 1,1-dibromocyclopropanes under phase-transfer conditions **Kakuzo Isagawa, Kazuhiko Mizuno, Hikaru Sugita and Yoshio Otsuji**
- 2285 Novel and enantioselective total synthesis of drimane type sesquiterpenes **Kozo Shishido, Tomoki Omodani and Masayuki Shibuya**

Corrigenda

-
- 2289 Synthesis of condensed tannins. Part 14. Biflavanoid profisetinidins as synthons. The acid induced 'phlobaphene' reaction **Desmond A. Young, Annemarie Cronjé, Adrienne L. Botes, Daneel Ferreira and David G. Roux**
- 2289 Photochemical oxa-di- π -methane rearrangement approach to (3.3.3.)propellanes. Total synthesis of sesquiterpene hydrocarbon (\pm)-modhephene **Goverdhan Mehta and Duvvuri Subrahmanyam**
- 2289 Enantio- and diastereo-selective synthesis of pipercolic acid derivatives using the aza-Diels-Alder reaction of imines with dienes **Patrick D. Bailey, Robert D. Wilson and George R. Brown**
- 2290 Enantioselective alkylation of *N*-(trimethylsilyl)benzaldehyde Imine **Shinichi Itsuno, Hiromitsu Yanaka, Chiharu Hachisuka and Koichi Ito**

AUTHOR INDEX

- Alessi, Dario R., 2243
 Amaro, Alicia, 2081
 Anjaneyulu, Ammanamanchi S. R., 2089
 Apparu, Christine, 2235
 Ashcroft, Joseph, 2215
 Bailey, Patrick D., 2289
 Baker, Raymond, 2221
 Barbier, Michel, 2280
 Barton, Derek H. R., 2095
 Baumann, Herbert, 2229
 Benati, Luisa, 2103
 Benincori, Tiziana, 2139
 Bocelli, Gabriele, 2255
 Borders, Donald B., 2219
 Botes, Adrienne L., 2289
 Bouillon, Jean-Philippe, 2147
 Boyd, Derek R., 2189
 Brenna, Elisabetta, 2139
 Brimble, Margaret A., 2221
 Brown, George R., 2289
 Cadogan, J. I. G., 2081
 Cameron, Donald K., 2081
 Capdevielle, Patrice, 2129
 Carter, Guy T., 2215
 Chambers, Richard D., 2061
 Cho, Hangjin, 2270
 Choi, Yoon Kyung, 2270
 Choudary, Boyapati M., 2274
 Cornforth, Sir John, 2183
 Corrie, John E. T., 2243
 Cottaz, Sylvain, 2235
 Crich, David, 2205, 2209
 Cronjé, Annemarie, 2289
 Davies, R. Jeremy H., 2189
 Devys, Michel, 2280
 Donnelly, Dervilla M. X., 2095
 Driguez, Hugues, 2235
 Du, Ming-hui, 2183
 Ebizuka, Yutaka, 2065
 Eguchi, Shoji, 2272
 Evans, Chris, 2276
 Feeney, James, 2243
 Ferreira, Daneel, 2289
 Finet, Jean-Pierre, 2095
 Flaih, Nazar, 2177
 Foster, Robert, 2249
 Gallagher, Timothy, 2193
 Gilchrist, Thomas L., 2249
 Goodman, Joseph J., 2215
 Gordeev, Mikhail F., 2199
 Gosney, Ian, 2081
 Greenhall, Martin P., 2061
 Greenstein, Michael, 2215
 Grundon, Michael F., 2261
 Guiry, Patrick J., 2095
 Hachisuka, Chiharu, 2290
 Hamilton, Lynne, 2189
 Hanson, James R., 2177
 Harnden, Michael R., 2073
 Hayashibe, Satoshi, 2281
 Henrick, Kim, 2169
 Higuchi, Hiroyuki, 2111
 Hirata, Masaharu, 2065
 Hirata, Norihiko, 2279
 Hitchcock, Peter B., 2177
 Hobbs-Mallyon, David, 2277
 Inoue, Sumie, 2275
 Isaa, Balagopala M., 2089
 Isagawa, Kakuzo, 2283
 Ito, Koichi, 2290
 Itoh, Masahito, 2135
 Itsuno, Shinichi, 2290
 Iyoda, Masahiko, 2111
 Jansson, Per-Erik, 2229
 Jarvest, Richard L., 2073
 Jones, Stephen W., 2193
 Kamikawa, Tadao, 2279
 Kantam, Mannepalli Lakshmi, 2274
 Karakasa, Takayuki, 2281
 Kato, Hideo, 2275
 Kato, Hideo, 2281
 Katritzky, Alan R., 2199
 Kawęcki, Robert, 2255
 Kenne, Lennart, 2229
 Kim, Mahn-Joo, 2270
 Kobayashi, Kazuhiro, 2135
 Kohmoto, Shigeo, 2157, 2161
 Koizumi, Toru, 2111
 Kole, Panna L., 2151
 Kozerski, Lech, 2255
 Kumar, Subodh, 2151
 Lage, Nadia, 2269
 Lim, Linda B. L., 2205, 2209
 Mahon, Mary F., 2193
 Maiese, William M., 2215
 Maliverney, Christian, 2147
 Marumo, Kiyotaka, 2275
 Masson, Serge, 2269
 Matsushita, Teruki, 2281
 Maumy, Michel, 2129
 McCague, Ray, 2276
 McCullough, John J., 2189
 McPartlin, Mary M., 2169
 Mehta, Goverdhan, 2289
 Merényi, Robert, 2147
 Merricks, David, 2169
 Miyamoto, Yasunobu, 2121
 Mizuno, Kazuhiko, 2283
 Molloy, Kieran C., 2193
 Montevocchi, Pier Carlo, 2103
 Motoki, Shinichi, 2281
 Neville, Charles F., 2261
 Nishibe, Yasuhiro, 2065
 Noguchi, Hiroshi, 2065
 Ogawa, Seiichiro, 2121
 Ohno, Masatomi, 2272
 Ojima, Jüro, 2111
 Omodani, Tomoki, 2285
 Otsuji, Yoshio, 2283
 Parisot, Denise, 2280
 Pearce, Cedric J., 2215
 Porter, H. Patricia, 2189
 Ramachandran, Venkataraman N., 2261
 Rani, Santi Shobha, 2274
 Renaud, Olivia, 2129
 Reisch, Geisla, 2261
 Reisch, Johannes, 2261
 Roberts, Stanley M., 2276
 Roux, David G., 2290
 Saito, Hiroyuki, 2065
 Saito, Takao, 2281
 Sammes, Peter G., 2169
 Sankawa, Ushio, 2065
 Sannicolò, Franco, 2139
 Sata, Yoichi, 2111
 Sato, Yoshiro, 2275
 Seabury, Mark J., 2061
 Seo, Shujiro, 2065
 Seto, Haruo, 2065
 Shibuya, Masayuki, 2285
 Shishido, Kozo, 2285
 Spagnolo, Piero, 2103
 Subba Rao, Yarlagadda V., 2274
 Subrahmanyam Duvvuri, 2289
 Suginome, Hiroshi, 2135
 Sugita, Hikaru, 2283
 Sutherland, Alan G., 2276
 Takeda, Ken'ichi, 2065
 Takeuchi, Yasuyoshi, 2065
 Thuillier, André, 2269
 Tinley, Edward J., 2081
 Tonda, Kanya, 2065
 Trayer, Ian P., 2243
 Trentham, David R., 2243
 Uomori, Atsuko, 2065
 Urbańczyk-Lipkowska, Zofia, 2255
 Viehe, Heinz G., 2147
 Walker, Edward R. H., 2169
 Whiting, Donald A., 2277
 Williams, Geoffrey M., 2221
 Wilson, Robert D., 2289
 Wisdom, Richard, 2276
 Wyse, Stuart J., 2081
 Yamada, Kazutoshi, 2157, 2161
 Yamagiwa, Yoshiro, 2279
 Yamamoto, Gaku, 2111
 Yamamoto, Hiroyuki, 2111
 Yamamoto, Makoto, 2157, 2161
 Yamamoto, Yoshihiko, 2272
 Yanaka, Hiromitsu, 2290
 Yoshimura, Yohko, 2065
 Yoshitake, Makoto, 2157, 2161
 Young, Desmond A., 2289

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