

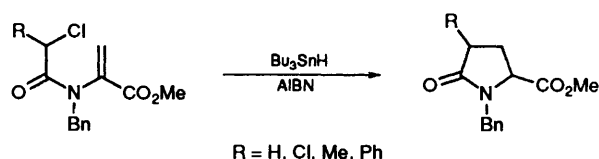
JOURNAL OF THE CHEMICAL SOCIETY

Perkin Transactions 1

Organic and Bio-organic Chemistry

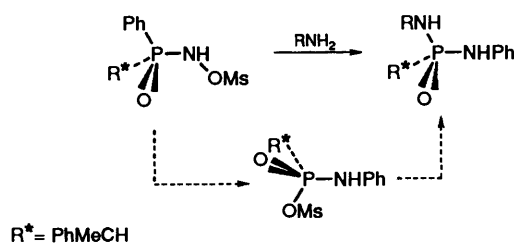
CONTENTS

Perkin Communications

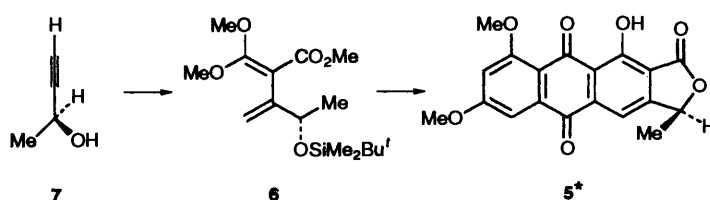
3257 New route to pyroglutamates via α -chloro amide radical cyclisation

Karen Goodall and Andrew F. Parsons

Articles

3261 Stereospecificity in the rearrangement reactions of an *N*-phosphinoyl-*O*-sulfonylhydroxylamine with methylamine and *tert*-butylamine: retention of configuration at phosphorus as evidence for the initial formation of a phosphoramidic sulfonic mixed anhydride

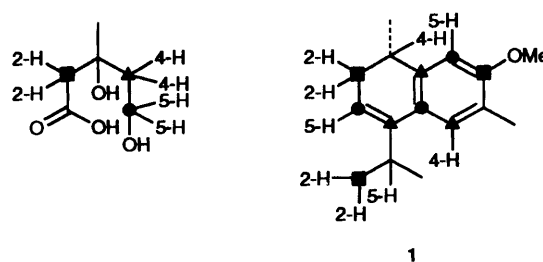
Martin J. P. Harger and Ramesh Sreedharan-Menon

3269 Pigments of fungi. Part 38. Synthesis of austrocorticinic acid and (*S*)-(-)-austrocorticin; absolute stereochemistry of natural austrocorticin

Ann S. Cotterill, Melvyn Gill, Alberto Gimenez and Nives M. Milanovic

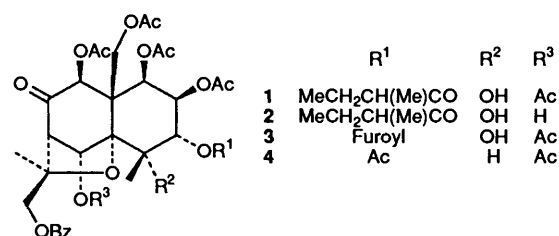
- 3277 **Biosynthesis of (1S)-7-methoxy-1,2-dihydrocadalene. Incorporation of ^2H - and ^{13}C -labelled mevalonates by cultured cells of *Heteroscyphus planus***

Kensuke Nabeta, Takehiro Ishikawa, Teruki Kawae and Hiroshi Okuyama



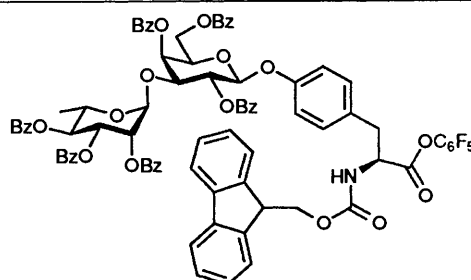
- 3281 **Isolation and structure elucidation of four new dihydro- β -agarofuran polyesters from *Euonymus sachalinensis***

Judit Hohmann, Gábor Nagy, Gábor Günther, Gyula Argay, Alajos Kálmán and Gábor Czira



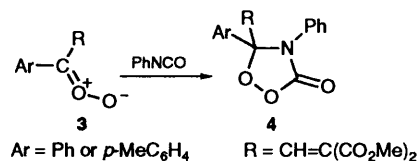
- 3287 **Synthesis of glycosyltyrosine building blocks for solid-phase glycopeptide assembly: use of aryl *tert*-butyl ethers as glycosyl acceptors in aromatic glycosylations**

Antonio Vargas-Berenguel, Morten Meldal, Hans Paulsen, Knud J. Jensen and Klaus Bock



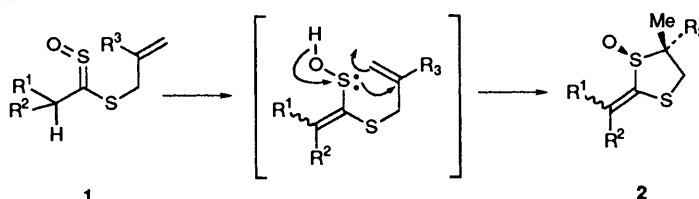
- 3295 **Carbonyl oxide chemistry. Part 3. Regioselectivity of the first [3 + 2] cycloaddition of carbonyl oxides to phenyl isocyanate: one-pot synthesis of 1,2,4-dioxazolidin-3-ones**

M. Rosaria Iesce, Flavio Cermola, Federico Giordano, Rachele Scarpati and M. Liliana Graziano



- 3299 **Intramolecular trapping reactions of vinylsulfenic acid tautomers of enethiolisable sulfines**

Germana Mazzanti, Esther van Helvoirt, Leonard A. van Vliet, René Ruinaard, Stefano Masiero, Bianca F. Bonini and Binne Zwanenburg



Enethiolisable (allylsulfanyl)sulfines **1** undergo intramolecular cyclisation, affording 2-alkylidene-1,3-dithiolane 1-oxides **2** in good yields. Enethiolisable sulfines having an *S*-prop-2-ynyl substituent similarly give five-membered ring trapping products

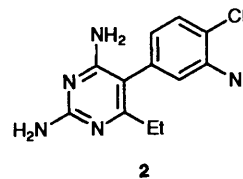
- 3305 **Chiral synthesis of a trinorguaiane sesquiterpene, clavukerin A**

Toshio Honda, Hirohide Ishige and Hiromasa Nagase



- 3311 **Structural studies on bioactive compounds. Part 25. Synthesis and properties of potential metabolites of the diaminopyrimidine antifolate 2,4-diamino-5-(3-azido-4-chlorophenyl)-6-ethylpyrimidine (MZPES)**

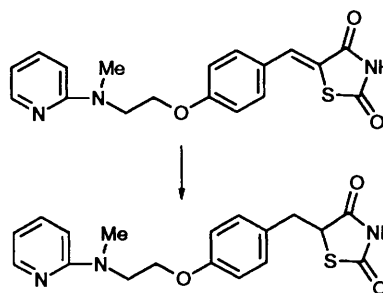
Roger J. Griffin and Malcolm F. G. Stevens



Potential metabolites of the antitumour diaminopyrimidine *m*-azidopyrimethamine **2** have been prepared and evaluated for biological activity

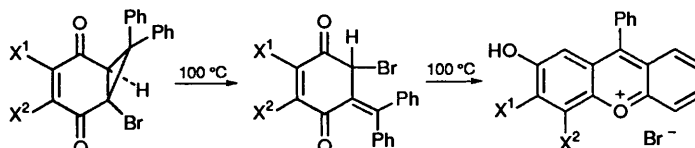
- 3319 **Facile biocatalytic reduction of the carbon-carbon double bond of 5-benzylidene-1,3-thiazolidine-2,4-diones. Synthesis of (±)-5-(4-{2-[methyl(2-pyridyl)amino]ethoxy}benzyl)-thiazolidine-2,4-dione (BRL 49653), its (*R*)-(+) -enantiomer and analogues**

Barrie C. C. Cantello, Drake S. Eggleston, David Haigh, R. Curtis Haltiwanger, Catherine M. Heath, Richard M. Hindley, Keith R. Jennings, John T. Sime and Stefan R. Woroniecki



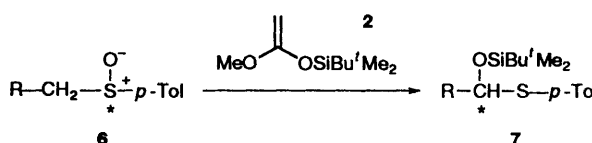
- 3325 **Thermal decomposition of homoquinones**

Takumi Oshima, Kazushi Tamada and Toshikazu Nagai



- 3335 **First highly asymmetric Pummerer-type reaction in chiral, non-racemic acyclic sulfoxides induced by *O*-silylated ketene acetal**

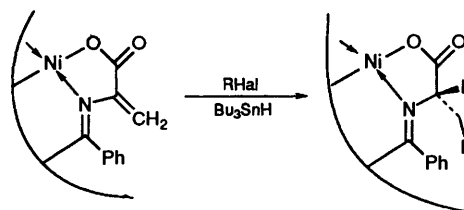
Yasuyuki Kita, Norio Shibata, Naoki Yoshida and Shigekazu Fujita



The chiral sulfoxides **6** reacted with the *O*-silylated ketene acetal **2** in acetonitrile to give the corresponding chiral α -siloxy sulfides **7** in high yields

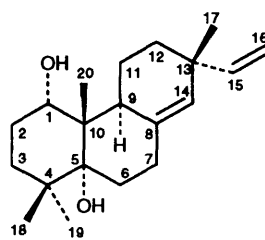
- 3343 **Stereoselective radical addition of carbon-centred radicals to the dehydroalanine moiety of the chiral nickel(II) complex of the Schiff's base derived from (*S*)-2-[*N*-(*N'*-benzylpropyl)amino]benzophenone and dehydroalanine**

Rashid G. Gasanov, Lubov V. Il'inskaya, Michail A. Misharin, Victor I. Maleev, Nicolai I. Raevski, Nicolai S. Ikonnikov, Svetlana A. Orlova, Nadezhda A. Kuzmina and Yuri N. Belokon'



3349 **Maxikdiol: a novel dihydroxyisoprimane as an agonist of maxi-K channels**

Sheo B. Singh, Michael A. Goetz, Deborah L. Zink, Anne W. Dombrowski, Jon D. Polishook, Maria L. Garcia, William Schmalhofer, Owen B. McManus and Gregory J. Kaczorowski



vii Conference Diary

AUTHOR INDEX

- Argay, Gyula, 3281
Belokon', Yuri N., 3343
Bock, Klaus, 3287
Bonini, Bianca F., 3299
Cantello, Barrie C. C., 3319
Cermola, Flavio, 3295
Cotterill, Ann S., 3269
Czira, Gábor, 3281
Dombrowski, Anne W., 3349
Eggleston, Drake S., 3319
Fujita, Shigekazu, 3335
Garcia, Maria L., 3349
Gasanov, Rashid G., 3343
Gill, Melvyn, 3269
Gimenez, Alberto, 3269
Giordano, Federico, 3295
Goetz, Michael A., 3349
Goodall, Karen, 3257
Graziano, M. Liliana, 3295
Griffin, Roger J., 3311
Günther, Gábor, 3281
Haigh, David, 3319
Haltiwanger, R. Curtis, 3319
Harger, Martin J. P., 3261
Heath, Catherine M., 3319
Hindley, Richard M., 3319
Hohmann, Judit, 3281
Honda, Toshio, 3305
Iesce, M. Rosaria, 3295
Ikonnikov, Nicolai S., 3343
Il'inskaya, Lubov V., 3343
Ishige, Hirohide, 3305
Ishikawa, Takehiro, 3277
Jennings, Keith R., 3319
Jensen, Knud J., 3287
Kaczorowski, Gregory J., 3349
Kálmán, Alajos, 3281
Kawae, Teruki, 3277
Kita, Yasuyuki, 3335
Kuzmina, Nadezhda A., 3343
Maleev, Victor I., 3343
Masiero, Stefano, 3299
Mazzanti, Germana, 3299
McManus, Owen B., 3349
Meldal, Morten, 3287
Milanovic, Nives M., 3269
Misharin, Michail A., 3343
Nabeta, Kensuke, 3277
Nagai, Toshikazu, 3325
Nagase, Hiromasa, 3305
Nagy, Gábor, 3281
Okuyama, Hiroshi, 3277
Orlova, Svetlana A., 3343
Oshima, Takumi, 3325
Parsons, Andrew F., 3257
Paulsen, Hans, 3287
Polishook, Jon D., 3349
Raevski, Nicolai I., 3343
Ruinaard, René, 3299
Scarpati, Rachele, 3295
Schmalhofer, William, 3349
Shibata, Norio, 3335
Sime, John T., 3319
Singh, Sheo B., 3349
Sreedharan-Menon, Ramesh,
3261
Stevens, Malcolm F. G., 3311
Tamada, Kazushi, 3325
van Helvoirt, Esther, 3299
van Vliet, Leonard A., 3299
Vargas-Berenguel, Antonio,
3287
Woroniecki, Stefan R., 3319
Yoshida, Naoki, 3335
Zink, Deborah L., 3349
Zwanenburg, Binne, 3299

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

Forthcoming Articles in *Perkin Transactions 1*

A Novel Preparation of 3-Alkyl-5-hydroxy-5-per(poly)fluoroalkyl-2-isoxazolines **J. Chen** and **C.-M. Hu**

Stereospecific Synthesis of α -Deuteriated α -Amino Acids: Regiospecific Deuteriation of Chiral 3-Isopropyl-2,5-dimethoxy-3,6-dihydropyrazines **D. Gani**, **P.D. Leeson** and **J.E. Rose**

Photochemical Reactions of *o*-Alkenylphenols and 1-Alkenyl-2-naphthol with Alkylamines: Amination *via* Photoinduced Proton Transfer **M. Yasuda**, **T. Sone**, **K. Tanabe** and **K. Shima**

Benzoannulated Centropolyquinanes. Part 21. Centrohexasindan: Three Complementary Syntheses of the Highest Member of the Centropolyindan Family **D. Kuck**, **A. Schuster**, **B. Paisdor** and **D. Gestmann**

Facile Construction of 1-Phenyl-naphthyl Skeleton *via* Ester-mediated Nucleophilic Aromatic Substitution Reaction. Applications to the Synthesis of Phenyl-naphthalide Lignans **T. Hattori**, **H. Tanaka**, **Y. Okaishi** and **S. Miyano**

A Short Synthetic Route to Congeners of the Undecose Antibiotic Herbicidin **J.R. Bearder**, **M.L. Dewis** and **D.A. Whiting**

Preparation and Enantiomer Recognition Behaviour of Azophenolic Crown Ether containing *cis*-Cyclohexane-1,2-diol as the Chiral Centre **K. Naemura**, **S. Takeuchi**, **K. Hirose**, **Y. Tobe**, **T. Kaneda** and **Y. Sakata**

Enhanced Lability of α -Silyl Groups in Thiophenetricarbonylchromium(0) Complexes **M.S. Loft**, **T.J. Mowlem**, **D.A. Widdowson** and **D.J. Williams**

Reactions of Tetrasulfur Tetranitride with Aryl Dibromomethyl Ketones: One Pot Synthesis of 3-Aroylformamido-4-aryl-1,2,5-thiadiazoles and their Reactions **K. Kim**, **J. Cho** and **S.C. Yoon**

Photoreponsive Melittin Having a Spiropyran Residue in the Hydrophobic Region of the Sequence **S. Kimura**, **T. Oeda**, **K. Nagamine** and **Y. Imanishi**

Stereocontrol in the Nucleophilic Epoxidation of α -(1-Hydroxyalkyl)- α,β -unsaturated Sulfones **R.F.W. Jackson**, **S.P. Standen**, **W. Clegg** and **A. McCamley**

Control of Diastereofacial Selectivity in the Nucleophilic Epoxidation of γ -Oxygenated- α,β -unsaturated Sulfones **R.F.W. Jackson**, **S.P. Standen** and **W. Clegg**

Effect of Molecular Sieves on the Formation and Acid-catalysed Mono- and Bis-cyclization of *N*-Arylimines. An Easy Entry to Polycyclic Ring Systems by a Novel Cascade Reaction **S. Laschat** and **O. Temme**

Enantiopure Didemnenones *via* Kinetic Resolution **E. Winterfeldt** and **M. Gores**

Optical Resolution and Absolute Stereochemistry of *trans*-2,5-Dimethyl-1-phenyl-1-silacyclopentane **B.P. Roberts**, **H.-S. Dang** and **D.A. Tocher**

Asymmetric Synthesis of (1*R*,1'*R*)- and (1*S*,1'*S*)-Diaryldiethylamines by way of a Diastereoselective Addition of Chiral Imines and 1,3-Oxazolidines with Organometallic Reagents **K. Higashiyama**, **H. Inoue**, **T. Yamauchi** and **H. Takahashi**

Synthetic Applications of Arenetricarbonylchromium(0) Complexes: The Synthesis of Polyfunctionalised Thiophenes **D.A. Widdowson**, **M.S. Loft** and **T.J. Mowlem**

Nickel-catalysed Substitutions of Aryl *tert*-Butyl Sulfones with Organometallic Reagents: Synthesis of *ortho*-Substituted Unsymmetrical Biaryls **J. Clayden**, **J.J.A. Cooney** and **M. Julia**

PbCl₂/Ga Bimetal Redox System-mediated Reactions of Carbon-Carbon Bond Formation between Carbonyl Compounds with Ethyl Trichloroacetate and with Iodoacetonitrile **X.-L. Zhang**, **W.-T. Tao** and **Y.-Z. Huang**

Oxazolidinofullerene **T.-Y. Luh**, **L.-L. Shiu**, **K.-M. Chien**, **T.-Y. Liu**, **T.-I. Lin**, **G.-R. Her** and **S.-L. Eng**

Regioselectivity in the Reductive Cleavage of Pyrogallol Derivatives: Reductive Electrophilic Substitution of Acetals of 2,3-Dimethoxyphenol **U. Azzena**, **G. Melloni** and **L. Pisana**

On the Mechanism of Phototransformations of 3-Alkoxy-2-(2-furyl)-4-oxo-4*H*-1-benzopyrans **S.C. Gupta**, **A. Saini**, **D. Kumar**, **N.S. Yadav**, **K. Chand**, **S. Mor** and **S.N. Dhawan**