# JOURNAL <br> OF <br> THE CHEMICAL SOCIETY 

## PERKIN TRANSACTIONS I Organic and Bio-organic Chemistry

## CONTENTS

Amino-acids and peptides. Part XXXVIII. Use of 4-picolyloxycarbonylhydrazides as 'handles' to facilitate peptide synthesis. Synthesis of fragments related to porcine gastric inhibitory polypeptide By Robert Macrae and Geoffrey T. Young ..... 1185
$C$-Nucleoside studies. Part II. Pentofuranosylethynes from 2,3-O-isopropylidene-d-ribose By J. Grant Buchanan, Allan D. Dunn, and Alan R. Edgar ..... 1191
Synthesis of oxazolines from epoxides
By John R. Lindsay Smith, Richard O. C. Norman, and Michael R. Stillings . ..... 1200
Microbiological hydroxylation of 17 -norkauran-16-one and ent-17-norkauran-16-one with the fungus Rhizopus nigricans
By Robert McCrindle, James K. Turnbull, and Allan B. Anderson ..... 1202
Transformations of penicillins: reactions with chloramine T
By Malcolm M. Campbell, Graham Johnson, A. F. Cameron, and I. R. Cameron. ..... 1208
Transformations of penicillins: novel ring-opening reactions of a penicillin-derived sulphimide By Malcolm M. Campbell and Graham Johnson ..... 1212
Stereospecific conversion of epoxides into olefins
By John M. Behan, Robert A. W. Johnstone, and Malcolm J. Wright ..... 1216
The chemistry of terpenes. Part XIX. Reaction of $(+)-3 \alpha, 4 \alpha$-epoxycarane with halogen acids and acetic acid
By Wesley Cocker and David H. Grayson ..... 1217
Apicophilicity of the benzoyl group in five-co-ordinate phosphoranes
By Stuart Trippett and Peter J. Whittle ..... 1220
Reactions of tellurium(iv) halides with anthracene and other organic compounds By Michael Albeck and Sason Shaik ..... 1223
Synthesis of di- and tetra-substituted 1,4,5,8-tetra-azaphenanthrenes (pyrazino[2,3-f]quinoxalines) By R. Nasielski-Hinkens and M. Benedek-Vamos ..... 1229
Reactions of palladium(II) with organic compounds. Part IV. Oxidation of some substituted stilbenes By Ferrers R. S. Clark, Richard O. C. Norman, and C. Barry Thomas ..... 1230
Action of acids and alkylating agents on 1,4-di-(2-pyridyl)tetraz-2-enes By Stephen Anderson, Edward E. Glover, and Kenneth D. Vaughan ..... 1232
Synthesis of a dithieno[2,3-b:3', $\left.2^{\prime}-e\right][1,4]$ thiazine and of di-3-thienylamine By Cor J. Grol ..... 1234
Carboxymethylation of $p, \alpha \beta \beta$-tetramethylstyrene by manganese(III) acetate. Reductive cyclization during treatment of the derived $\gamma$-aryl- $\gamma$-lactone with polyphosphoric acid to give 4 -isopropyl-7-methyl-1-tetralone By Ramachandra B. Mane and G. S. Krishna Rao
A simple synthesis of enamides from ketoximes
By Robin B. Boar, James F. McGhie, Mick Robinson, Derek H. R. Barton, David C. Horwell, and Robert V. Stick ..... 1237
A new and convenient synthesis of the $17 \alpha, 21$-diacetoxy-20-oxopregnane side-chain
By Robin B. Boar, James F. McGhie, Mick Robinson, and Derek H. R. Barton ..... 1242
Alangiside, the monoterpenoid alkaloidal glycoside from Alangium lamarckii Thw.
By Aboo Shoeb, Kanwal Raj, Randhir S. Kapil, and Satya P. Popli ..... 1245
Pyrrolopyrimidine nucleosides. Part X. Synthesis of certain 4,5-disubstituted 7-( $\beta$-D-ribofuranosyl)- pyrrolo $[2,3-d]$ pyrimidines related to toyocamycin and sangivamycin
By Barbara C. Hinshaw, Olga Leonoudakis, Karl H. Schram, and Leroy B. Townsend ..... 1248
Pyrrolopyrimidine nucleosides. Part XI. Influence of amino-groups at C-4 and C-6 or an amino-group at C-6 on the reactivity of a 5-cyano-group in pyrrolo[2,3-d]pyrimidine nucleosides ..... 1253
Bicyclic nucleosides related to pyrimidine nucleosides. Part III. 3-( $\beta$-D-Ribofuranosyl)isoguanine By Charles L. Schmidt and Leroy B. Townsend ..... 1257
Diazepines. Part XX. The properties of 2,3-dihydro-1,4-diazepinium perchlorate By Douglas Lloyd, Hamish McNab, and Donald R. Marshall . ..... 1260
Electrochemical fluorination. Part I. Electrochemical fluorination of alkyl-substituted pyridines By Victor J. Davis, Robert N. Haszeldine, and Anthony E. Tipping ..... 1263
Metal ions and complexes in organic reactions. Part XX. Copper-catalysed reactions of aromatic bromo- carboxylates with carbanions, giving oxo-acids, isocoumarins, and related products
By Reginald G. R. Bacon and John C. F. Murray ..... 1267
Chemistry of alkali metal tetracarbonylferrates. A simple method for alkylating and arylating carbonyl compounds and active methylene compounds
By Gian franco Cainelli, Mauro Panunzio, and Achille Umani-Ronchi ..... 1273
On the relationship between intramolecular hydrogen abstraction by alkoxyl radicals and deshielding by the corresponding hydroxy-groups as indicated by nuclear magnetic resonance
By Robin B. Boar ..... 1275
Some reactions of 2 -oxocyclopentanedithiocarboxylic acid and 3-methyl-5-oxo-1-phenyl- $\Delta^{2}$-pyrazoline- 4-dithiocarboxylic acid
By Tatsuo Takeshima, Naoaki Fukada, Eifchi Okabe, Fukashi Mineshima, and Motomu Muraoka ..... 1277
Some benzazocinecarboxylic acids as potential anti-inflammatory agents
By Geraint Jones and Gwenda T. Tringham ..... 1280
Reaction of diazomethane with quaternary nitrogen compounds to form betaines
By Siegfried E. Drewes, Herbert E. M. Magojo, and Donald A. Sutton . ..... 1283
Iodination of dibenzoylmethanes with iodine-peracetic acid
By Iwao Urasaki and Yoshiro Ogata ..... 1285
18-Norpregna-8,11,13-trienes: reaction of $16 \alpha, 17 \alpha$-epoxypregn-8-en-11-ones with Lewis acids By Colin L. Hewett, James Redpath, and David S. Savage ..... 1288
Branched-chain sugars. Part V. Identification and synthesis of vinelose
By John S. Brimacombe, Safia Mahmood, and Anthony J. Rollins ..... 1292
Methods of peptide sequencing. Part I. Conversion of oligopeptides into cyclic dipeptides: a gas chromato- graphic-mass spectrometric study
By Robert A. W. Johnstone and T. Jeffery Povall. ..... 1297
Selective rapid transfer-hydrogenation of aromatic nitro-compounds
By Ian D. Entwistle, Robert A. W. Johnstone, and T. Jeffery Povall ..... 1300
Adducts from acyl chlorides and 2-unsubstituted oxazolines: formation and reactions By Bernard T. Golding and David R. Hall ..... 1302

