

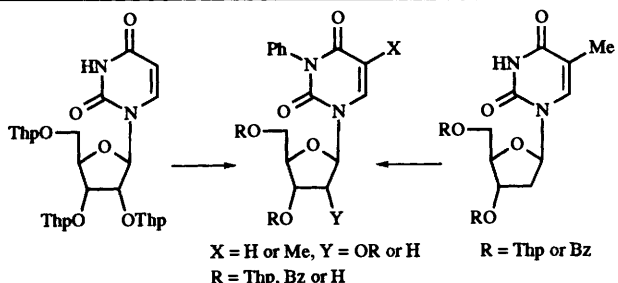
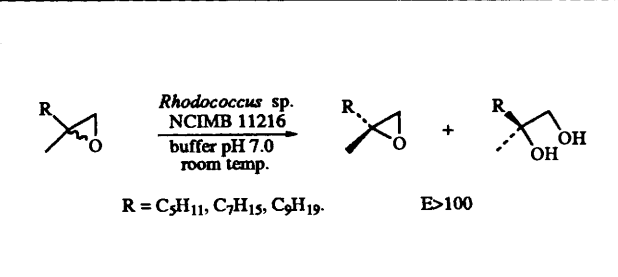
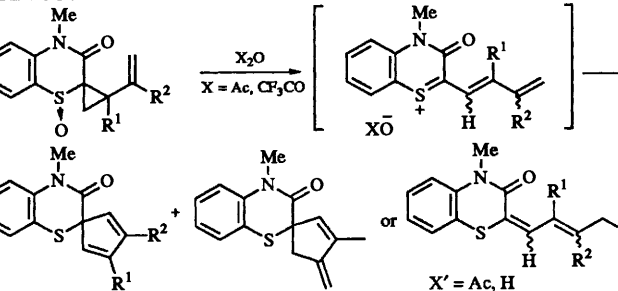
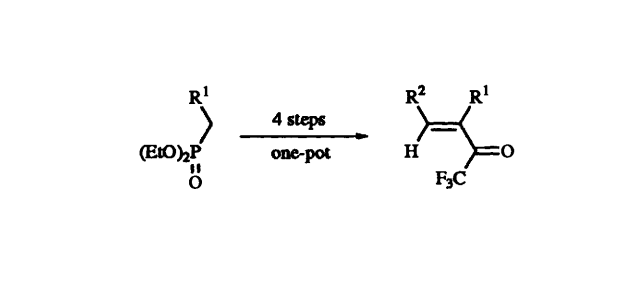
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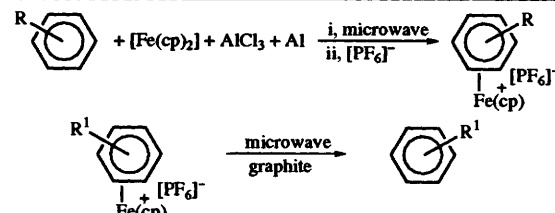
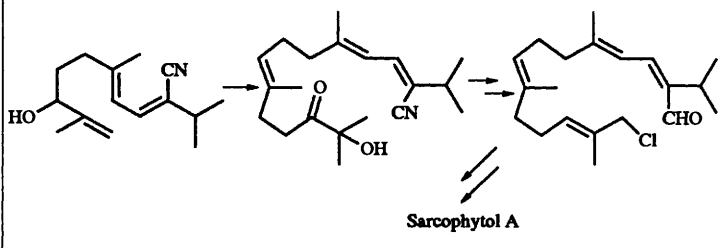
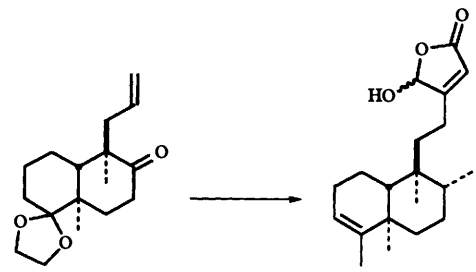
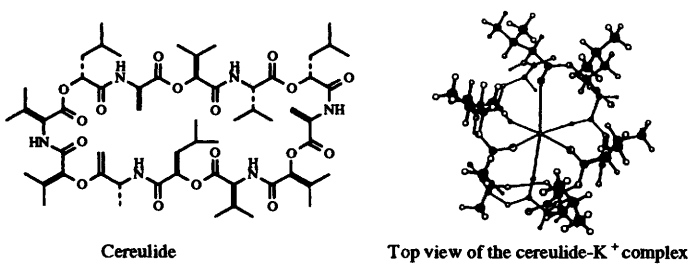
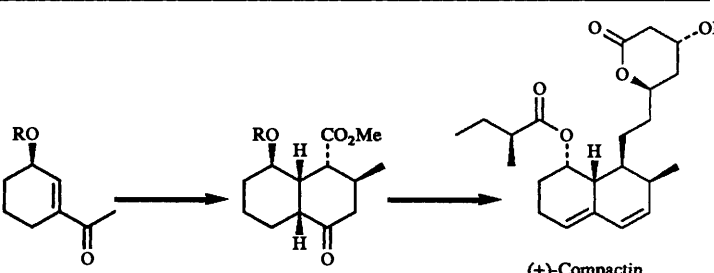
Organic and Bio-organic Chemistry

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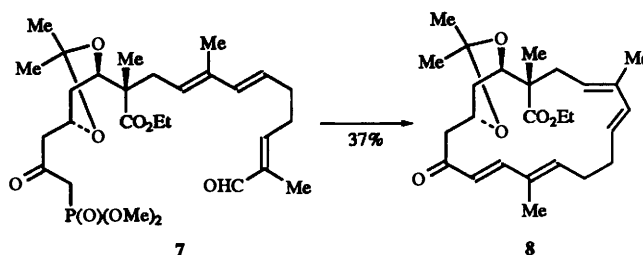
<p>733 A new method for the synthesis of <i>N</i>-phenyl-uracil and -pyrimidine nucleosides</p> <p>Tokumi Maruyama, Keiichi Fujiwara and Mitsutoshi Fukuhara</p>	 <p>X = H or Me, Y = OR or H R = Thp, Bz or H</p>
<p>735 Highly selective asymmetric hydrolysis of 2,2-disubstituted epoxides using lyophilized cells of <i>Rhodococcus</i> sp. NCIMB 11216</p> <p>Ute Wandel, Martin Mischitz, Wolfgang Kroutil and Kurt Faber</p>	 <p>R = C₅H₁₁, C₇H₁₅, C₉H₁₉. E > 100</p>
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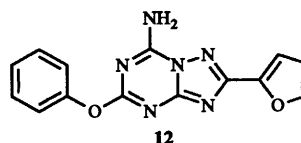
785 **Development of a synthesis of lankacidins: an investigation into 17-membered ring formation**

Ernesto G. Mata and Eric J. Thomas



801 **Adenine isosteres with bridgehead nitrogen. Part 1. Two independent syntheses of the [1,2,4]-triazolo [1,5-*a*][1,3,5]triazine ring system leading to a range of substituents in the 2, 5 and 7 positions**

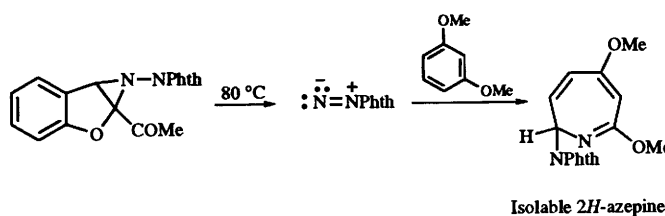
Peter W. R. Caulkett, Geraint Jones, Mary McPartlin, Nigel D. Renshaw, Sarah K. Stewart and Brian Wright



The title ring system has been synthesised starting from either (a) a 3-amino-1,2,4 triazole or (b) a 2-hydrazino-1,3,5 triazine; the pivotal compound 12 has been prepared by both routes and its structure confirmed by X-ray crystallography

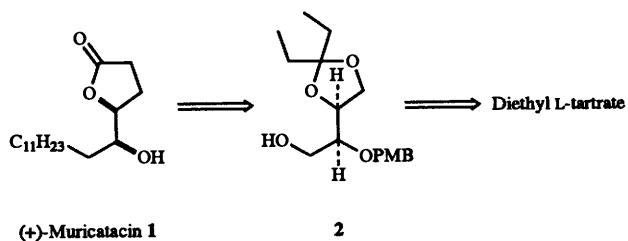
809 **Mild thermal route to phthalimidonitrene and its reaction with activated benzenes to give 2*H*- and 3*H*-azepines; X-ray crystal structure analysis of an isolable 2*H*-azepine**

David W. Jones and Mark Thornton-Pett



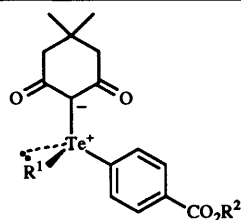
817 **An enantiospecific total synthesis of (+)-muricatacin**

Peter Somfai



821 **Synthesis and stereochemistry of optically active telluronium ylides**

Nobumasa Kamigata, Ayumi Matsuhisa, Hideo Taka and Toshio Shimizu

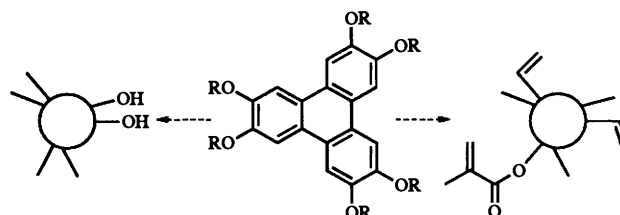


R¹ = Me and 2,4,6-Triisopropylphenyl
R² = (-)-menthyl

The optical resolution of diastereoisomeric mixtures of telluronium ylides gave optically active telluronium ylides, and the stereochemistry and kinetics for the epimerization have been studied

829 **Selective ether cleavages: simple routes yielding di- and tri-functional hexaalkoxytriphenylenes**

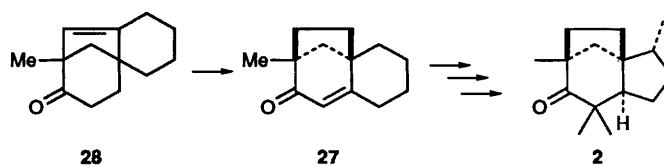
Fritz Closs, Lukas Häußling, Philippe Henderson, Helmut Ringsdorf and Peter Schuhmacher



Starting from simple hexaalkoxytriphenylenes it is possible by using reagents for selective ether cleavages to prepare various highly functionalized triphenylene derivatives

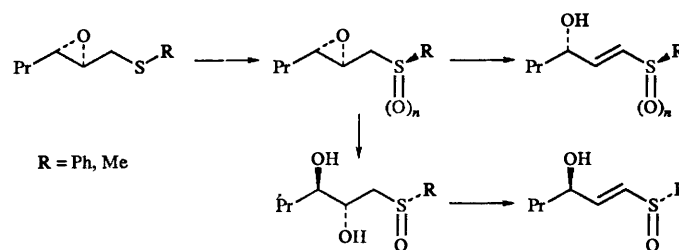
839 **Synthesis based on cyclohexadienes. Part 17.**
Total synthesis of the sesquiterpenes of
Eremophila georgei diels

Natesan Selvakumar, Seenivasaga N. Janaki,
 Kakumanu Pramod and G. S. R. Subba Rao



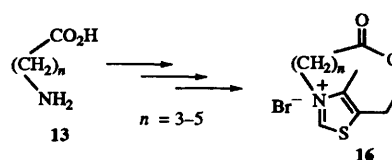
847 **Homochiral 2,3-epoxy sulfides—powerful new**
synthetic building blocks providing
stereoselective access to 2,3-epoxy sulfoxides,
2,3-dihydroxy sulfoxides and (*E*)- γ -hydroxy-
 α,β -unsaturated sulfoxides and sulfones. X-Ray
molecular structure of *rac*-(2*R,3*R**)-1-[(*S**)-**
phenylsulfinyl]hexane-2,3-diol

Andrew D. Westwell, Mark Thornton-Pett
 and Christopher M. Rayner



861 **Synthesis of bridged thiazolium salts as models**
for thiamin

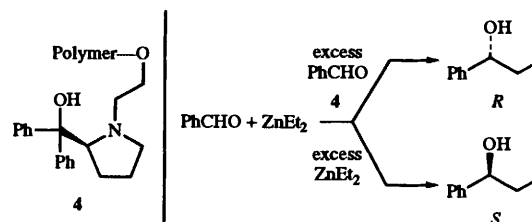
Finian J. Leeper and David H. C. Smith



Bridged thiazolium salts **16** have been synthesised in three steps
 from ω -amino acids **13** and their catalytic reactions studied; chiral
 bridged compounds have also been made from L-lysine

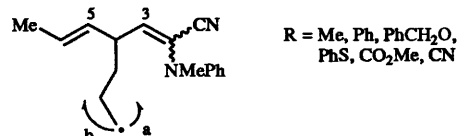
875 **Changes of enantioselectivity with the substrate**
ratio for the addition of diethylzinc to
aldehydes using a catalyst coupled to
a soluble polymer

Claus Dreisbach, Gisela Wischnewski,
 Udo Kragl and Christian Wandrey



879 **Free-radical cyclisations of 2-aminoalka-2,5-**
dienitriles

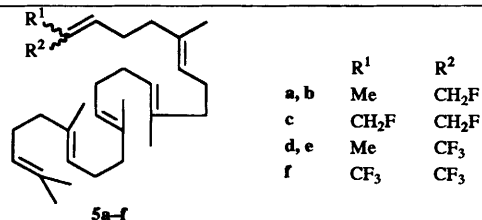
Chau-Chen Yang and Jim-Min Fang



Intramolecular free-radical cyclisations occurred exclusively or
 predominantly on the amino-cyano substituted alkenyl group
 (C-3 attack)

889 **Stereocontrolled synthesis of fluorosqualenes**
and fluoroepoxysqualenes as inhibitors of
squalene epoxidase and 2,3-oxidosqualene
cyclase

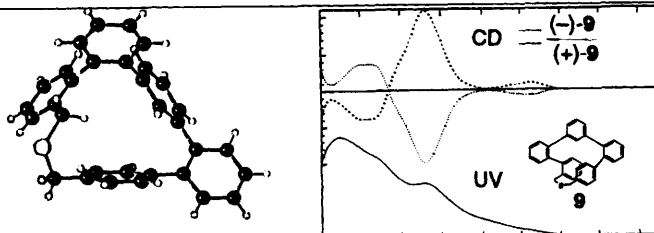
Maurizio Ceruti, Simona Amisano,
 Paola Milla, Franca Viola, Flavio Rocco,
 Michel Jung and Luigi Cattel



Z-Fluorosqualene derivatives have been synthesized and tested as
 inhibitors of squalene epoxidase and 2,3-oxidosqualene cyclase

895 Helically chiral thia- and diselena-quinquephenylophanes

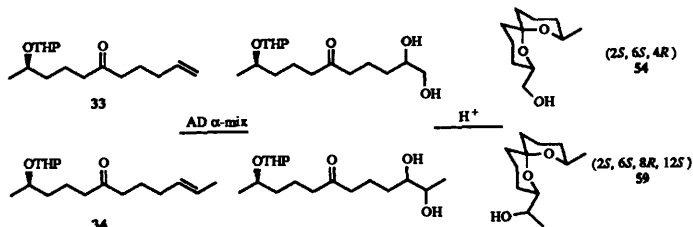
Karri Airola, Stefan Bartram and Kari Rissanen



Synthesis, X-ray crystal structures, enantiomer separation, CD spectra and ^{77}Se NMR experiment of helically chiral quinquephenylophanes

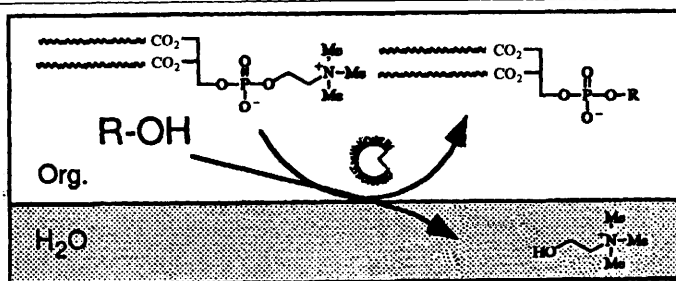
901 Syntheses of 2-ethyl-8-methyl-1,7-dioxaspiro[5.5]undecanols

Mark F. Jacobs, Bill D. Suthers, Achim Hübener and William Kitching



919 Simple transphosphatidylation of phospholipids catalysed by a lipid-coated phospholipase D in organic solvents

Yoshio Okahata, Ken-ichi Niikura and Kuniharu Ijiro



927 Radical cyclisation route to furanolignans: short and stereoselective synthesis of (\pm)-dihydrosesamin and (\pm)-lariciresinol

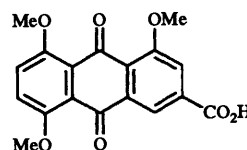
Gourhari Maiti, Sankar Adhikari and Subhas Chandra Roy



Ar = 3,4-methylenedioxyphenyl, (\pm)-dihydrosesamin
Ar = 4-hydroxy-3-methoxyphenyl, (\pm)-lariciresinol

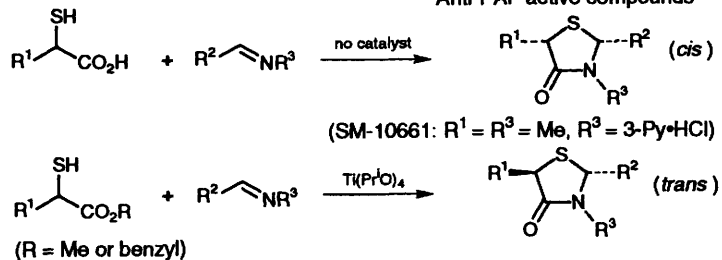
931 Synthesis of 4,5,8-trimethoxy-9,10-dioxo-9,10-dihydroanthracene-2-carboxylic acid, an analogue of rhein with improved systemic exposure in the guinea pig

W. Martin Owton, Michael Brunavs, Martin V. Miles, David R. Dobson and David J. Steggle



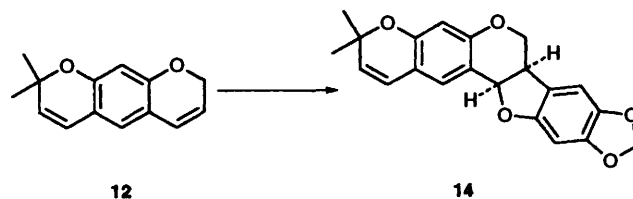
935 **Synthetic study of the highly potent and selective anti-platelet activating factor thiazolidin-4-one agents and related compounds**

Yoo Tanabe, Hitomi Yamamoto, Masanari Murakami, Kazunori Yanagi, Yoshino Kubota, Hitomi Okumura, Yuzuru Sanemitsu and Gohfu Suzukamo



949 **Total synthesis of pterocarpan: (\pm)-neorautenane**

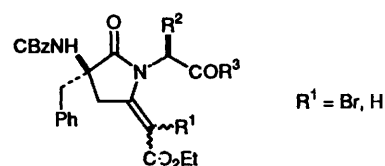
Ricardo A. Lichtenfels, Antonio L. Coelho and Paulo R. R. Costa *



The total synthesis of (\pm)-neorautenane **14** is described, using the chemoselective coupling of benzodipyrans **12** and *o*-chloromercuriphenol **13** as the key step

953 **Synthesis of phenylalanine-based cyclic acylated enamino ester dipeptide analogues: inhibitors of α -chymotrypsin. X-Ray molecular structure of (2'*S*,4'*R*)-4'-benzyl-3'-benzyl-oxycarbonyl-5'-oxo-2'-phenyloxazolidin-4'-ylacetic acid**

Andrew D. Abell, Mark D. Oldham and Jane M. Taylor



Lactam-based di- and tri-peptide mimics of the above type were prepared from (*S*)-phenylalanine

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Synthesis and lyotropic phase behaviour of methyl 3',4'-di-*O*-hexyl and 3',4'-di-*O*-octyl β -D-lactosides and partial *O*-acetylation of methyl 3',4'-di-*O*-octyl- β -D-lactoside **J.M. Williams and V. Langlois**

Dioxolane nucleosides and their phosphonate derivatives: synthesis and hydrolytic stability **M. Oivanen, E.V. Efimtseva, S.N. Mikhailov, S. Meshkov, T. Hankamaki and H. Lonnberg**

Synthesis of tetrazoles bearing a sugar moiety (sugar tetrazoles) **M. Yokoyama, S. Hirano, M. Matsushita, T. Hachiya, N. Kobayashi, M. Kubo, H. Togo and H. Seki**

Synthesis of major histocompatibility complex class I binding glycopeptides **A.C. Lellouch, R.A. Dwek, T. Elliot, J.S. Haurum and G. Arsequell**

Direct visualization of enzyme inhibitors using a portion mixing inhibitor library containing a quenched fluorogenic substrate. Part 1. Inhibitors for subtilisin Carlsberg **M. Meldal and I. Svendsen**

Synthesis of 4-thia-2-azapodophyllotoxin, a new analogue of antitumour lignan podophyllotoxin **Y. Hitotsuyanagi, M. Kobayashi, K. Takeya and H. Itokawa**

Ring transformation of the polar cycloadducts of 2-benzothiopyrylium salts **H. Shimizu, S. Miyazaki, T. Katoaka and M. Hori**

Remarkably strong inhibitory effect of sugar-biphenylboronic acid complexes on the hydrolytic activity of α -chymotrypsin which is comparable with that of a specific inhibitor, chymostatin **H. Suenaga, M. Mikami, H. Yamamoto, T. Harada and S. Shinkai**

Biosynthesis of violacein: oxygenation at 2-position of the indole ring and structures of proviolacein, prodeoxyviolacein and pseudoviolacein, plausible biosynthetic intermediates of violacein and deoxyviolacein **T. Hoshino, T. Hayashi and T. Odajima**

Stereoselective syntheses of *D*-ribo- and *L*-lyxo-phytosphingosine **Y.-L. Wu, X.-H. Mao and Y.-L. Li**

Trapping of translocated radicals by tetrathiafulvalene radical cation **J.A. Murphy and S.J. Roome**

New synthesis of carboxin and oxycarboxin pesticides: application to the preparation of new analogues substituted at the C-2 methyl group **R. Caputo, C. Ferreri, A. Guaragna, G. Palumbo and S. Pedatella**

Preparation of optically active derivatives of (1,4/2,3,5)- and (1,2,3,4,5/*O*)-5-aminocyclopentane-1,2,3,4-tetraols: synthesis of mannostatin A and its enantiomer **S. Ogawa, H. Kimura, C. Uchida and T. Ohashi**

Reactions of cyclic β -keto esters and other enol derivatives with 3-acetoxymino-2-isopropylquinazolin-4(3*H*)-one: further oxidation of the cyclic α -(3,4-dihydro-2-isopropyl-4-oxoquinazolin-3-yl)amino ketones with lead tetraacetate leading to ring expansion (in dichloromethane) and ring cleavage (in methanol) **R.S. Atkinson, E. Barker, P.J. Edwards and G.A. Thomson**

Synthesis of vinylsilanes by silyl-cupration of acetylenes using the *tert*-butyldiphenylsilyl-cuprate reagent **F.J. Pulido, A. Barbero, P. Cuadrado, I. Fleming, A.M. Gonzalez and A. Sanchez**

Asymmetric Diels-Alder reactions between chiral sugar nitroalkenes and 1-*O*-substituted buta-1,3-dienes. Synthesis and reactivity of new cyclohexenyl derivatives **E. Roman, J.A. Serrano and L.E. Caceres**

Synthesis and absolute configuration of the sesquiterpene aldehyde tridensenal from the Taiwanese liverwort *Bazzania tridenas* **M. Tori, N. Uchida, A. Sumida, H. Furuta and Y. Asakawa**

Organolead-mediated arylation of allyl β -keto esters: selective synthesis of 2'-hydroxyisoflavones **D.M.X. Donnelly, J.-P. Finet and B.A. Rattigan**

Conversion of benzene and chlorobenzene into polyhydroxylated cyclohexane derivatives related to cyclophellitol **S.M. Roberts and P.W. Sutton**

Synthesis of secasterone and further epimeric 2,3-epoxybrassinosteroids **G. Adam, B. Voigt, S. Takatsuto and T. Yokota**

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