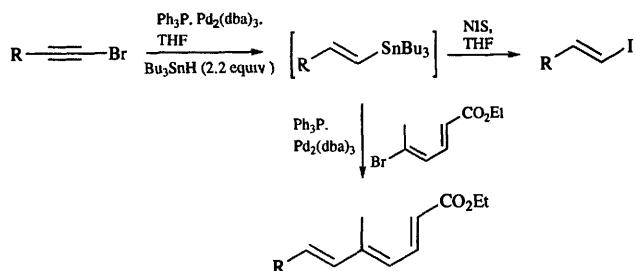


Organic and Bio-organic Chemistry**CONTENTS****Communications**

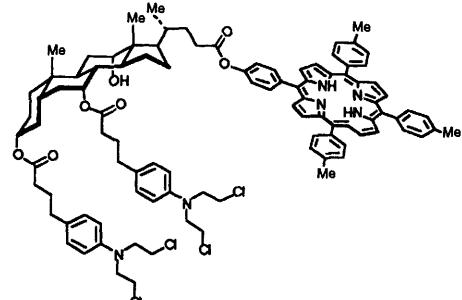
2417 Palladium-catalysed hydrostannylation of 1-bromoalkynes. A practical synthesis of (*E*)-1-stannylalk-1-enes

Christopher D. J. Boden, Gerald Pattenden and Tao Ye



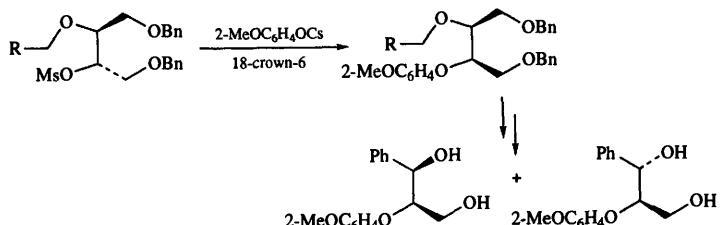
2421 Porphyrin-cholic acid-chlorambucil triads: synthesis and light-induced nuclease activity

Goverdhan Mehta, Sengodagounder Muthusamy, Bhaskar G. Maiya and Mallena Sirish



2425 Approaches to synthetic neolignans

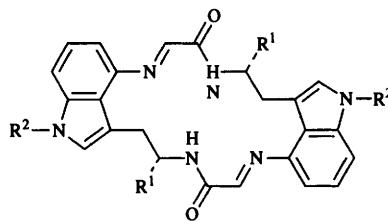
Kaichang Li and Richard F. Helm



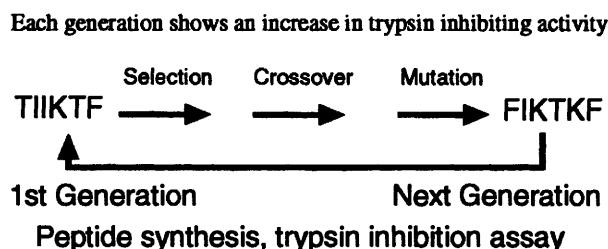
A method for the preparation of chiral aryl alkyl ether bonds leads to the synthesis of two C(8)-O-C(4') linked neolignans

Articles**2427 Indole-fused tetraazacyclooctadecanes: double-helical macrocycles**

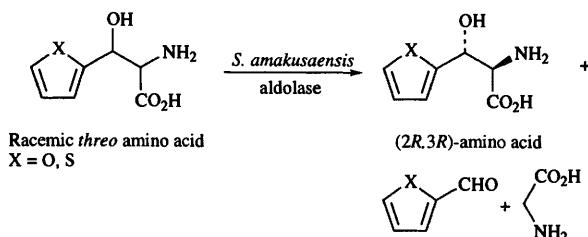
Mark Mascal, Ian G. Wood, Michael J. Begley, Andre S. Batsanov, Timothy Walsgrove, Alexandra M. Z. Slawin, David J. Williams, Alex F. Drake and Giuliano Siligardi

**2435 Directed evolution of trypsin inhibiting peptides using a genetic algorithm**

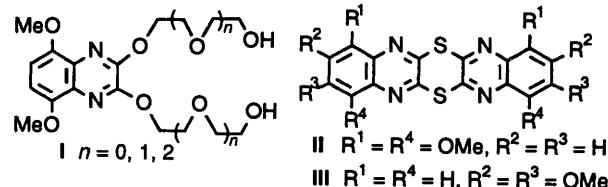
Yohei Yokobayashi, Kazunori Ikebukuro, Scott McNiven and Isao Karube

**2439 Heterocyclic β -hydroxy- α -amino acids as substrates for a novel aldolase from *Streptomyces amakusaensis*; preparation of (*2R,3R*)-3-(2-thienyl)serine and (*2R,3R*)-3-(2-furyl)serine from racemic *threo* material**

Matthew Bycroft, Richard B. Herbert and George J. Ellames

**2443 Synthesis of some substituted quinoxalines and polycyclic systems containing the quinoxaline nucleus**

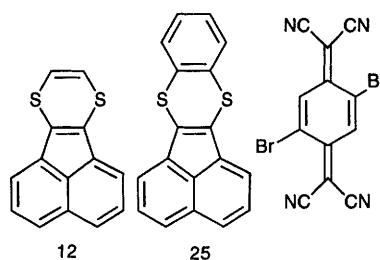
Abid R. Ahmad, Lina K. Mehta and John Parrick



Syntheses of **I**, **II** and **III** and quinoxaline crown ethers are described; several 5,8-dimethoxyquinoxalines are made as precursors to *p*-quinones

2451 New π -electron donor systems based on acenaphtho[1,2-*b*][1,4]dithiine

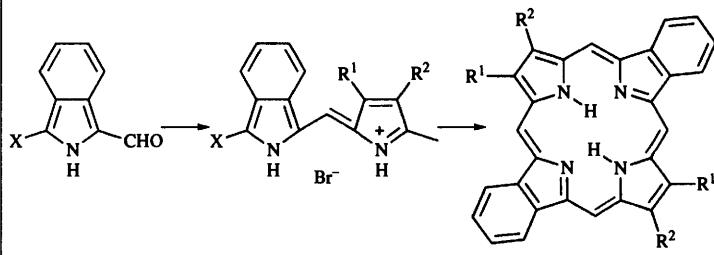
Martin R. Bryce, Antony Chesney, Alexander K. Lay, Andrei S. Batsanov and Judith A. K. Howard



Compounds **12** and **25** have been synthesised; the X-ray crystal structure of **25** and a 1:1 charge-transfer complex of **25** and 2,5-dibromo-TCNQ are reported

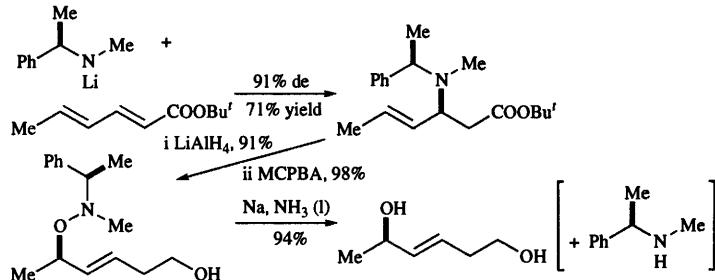
- 2461 Approaches to the stepwise synthesis of benzoporphyrins and phthalocyanines. Part 1. Synthesis of *opp*-dibenzoporphyrins (dibenzo[*g,q*]porphyrins)

Raymond Bonnett and Kimberly A. McManus



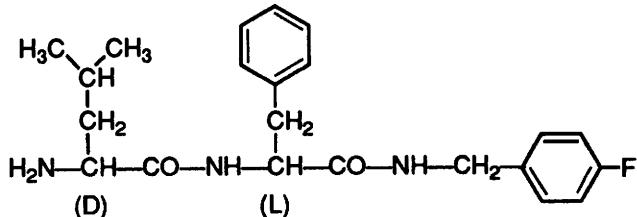
- 2467 Asymmetric synthesis of (*R*)-hexane-1,5-diol, (*R*)-hex-3-ene-1,5-diol and (*R*)-6-methylhept-5-en-2-ol (sulcatol) employing a tandem asymmetric conjugate addition and stereospecific Meisenheimer rearrangement protocol

Stephen G. Davies and G. Darren Smyth



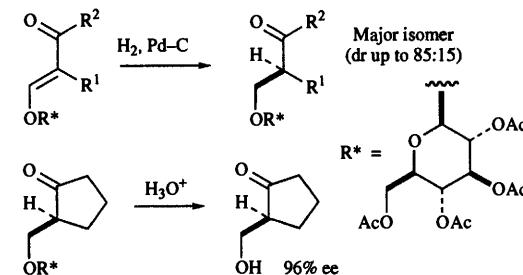
- 2479 Chymotrypsin inhibitory conformation induced by amino acid side chain–side chain intramolecular CH/π interaction

Yasuyuki Shimohigashi, Iori Maeda, Takeru Nose, Koichi Ikesue, Hiroshi Sakamoto, Tomohisa Ogawa, Yuzuru Ide, Megumi Kawahara, Takashi Nezu, Yoshihiro Terada, Keiichi Kawano and Motonori Ohno



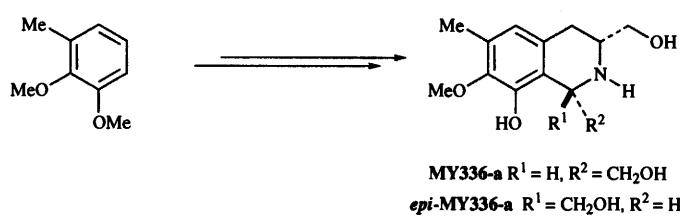
- 2487 Diastereoselective hydrogenations of α -alkyl α -(2,3,4,6-tetra-*O*-acetyl- β -D-glucopyranosyloxy)methylene carbonyl compounds. New route to stereopure α -alkyl α -oxymethyl carbonyl compounds

David S. Larsen, Anthony Schofield, Richard J. Stoodley and Peter D. Tiffin



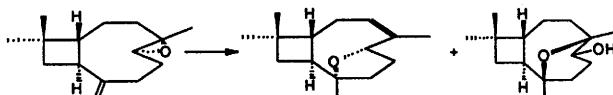
- 2497 Total synthesis of the β -adrenergic receptor antagonist, the tetrahydroisoquinoline MY336-a and its epimer

Teodoro S. Kaufman



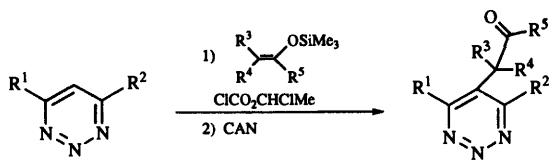
- 2507 Acid-catalysed rearrangement of caryophyllene oxide

Wing-Yan Tsui and Geoffrey Brown



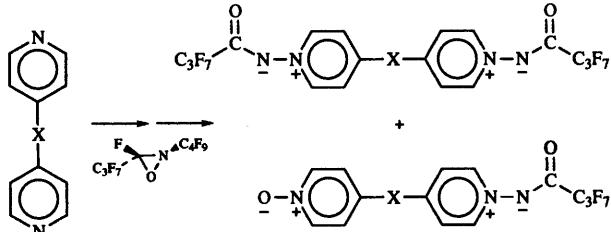
2511 A new entry to the synthesis of 5-substituted 1,2,3-triazines by reaction with silyl enol ethers and ceric ammonium nitrate

Takashi Itoh, Yûji Matsuya, Hiroshi Hasegawa, Kazuhiro Nagata, Mamiko Okada and Akio Ohsawa



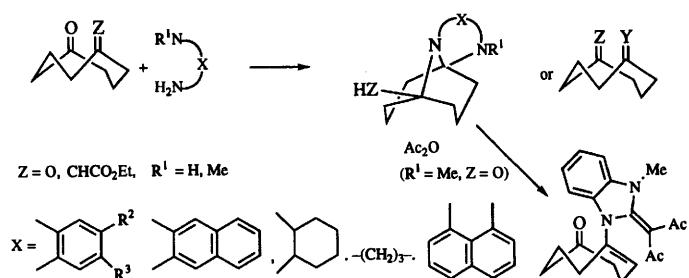
2517 Reactivity of perfluoro-(*cis*-2,3-dialkyloxaziridines) with heteroaromatic nitrogen compounds

Rosanna Bernardi, Barbara Novo and Giuseppe Resnati



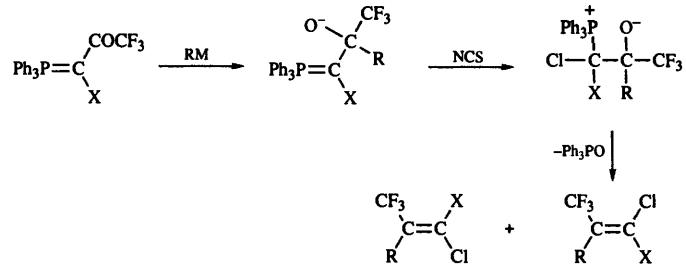
2523 Transannular cyclization reactions of cyclooctane-1,5-dione and 5-ethoxycarbonylmethylenecyclooctanone upon treatment with diamines. An efficient one-pot synthesis of substituted 2,6-diazatricyclo[5.3.3.0^{1,6}]alkanes and 2,5-diazatricyclo[4.3.3.0^{1,5}]alkanes and a study of their acetylation products

Elizabeth Malamidou-Xenikaki



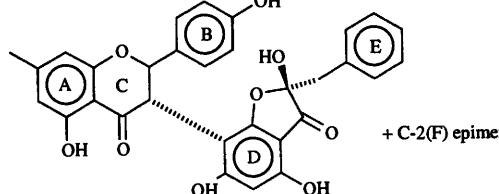
2531 Stereoselective synthesis of trifluoromethylated α -chloro- α , β -unsaturated esters and nitriles

Yanchang Shen and Shu Gao



2535 Absolute configuration of flavanone-benzofuranone-type biflavonoids and 2-benzyl-2-hydroxybenzofuranones

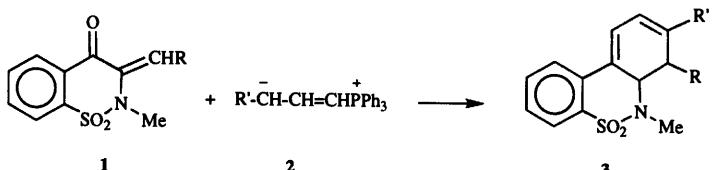
Riaan Bekker, E. Vincent Brandt and Daneel Ferreira



Chemical degradation in conjunction with appropriate physical and computational data permitted the first assessment of the absolute configuration of two zeyherin-type biflavonoids and 2-benzyl-2-hydroxybenzofuranones

2541 Reactivity of 3-benzylidene- and 3-ethylidene-2,3-dihydro-2-methyl-1,2-benzothiazin-4-one 1,1-dioxide towards alkylidenephosphoranes

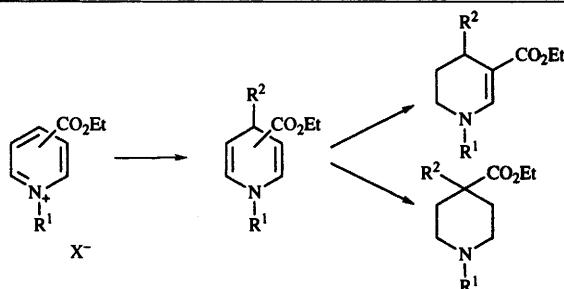
Piero Dalla Croce and Concetta La Rosa



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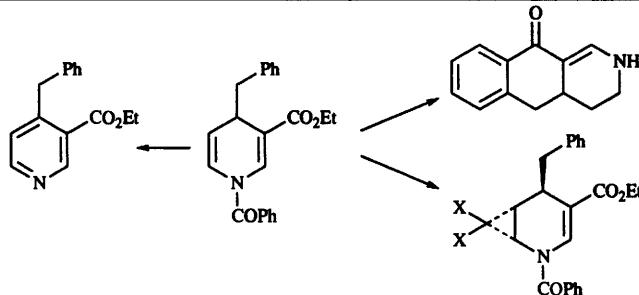
2545 Reductive alkylation of pyridinium salts.
Part 1. Synthesis of di-, tetra- and hexa-hydropyridine esters

John MacTavish, George R. Proctor and
James Redpath



2553 Reductive alkylation of pyridinium salts.
Part 2. Utilisation of di-, tetra- and hexa-hydropyridine esters

Kevin J. McCullough, John MacTavish,
George R. Proctor and James Redpath



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E. Aller, R.T. Buck, M.J. Drysdale, L. Ferris, D. Haigh, C.J. Moody, N.D. Pearson and J.B. Sanghera

N–H Insertion reactions of rhodium carbenoids. Part 2. Preparation of N-substituted aminophosphonoacetates (N-substituted phosphonylglycine esters)
L. Ferris, D. Haigh and C.J. Moody

Effects of catalysts on the cyclization of 2-diazo-2-(methoxycarbonyl)-*N*-aryl-*N*-alkylethanamides
K. Smith and D. Bahzad

Reactions of 2-methyl-3,1-benzoxazin-4-one with active methylene compounds. A new route to 3-substituted-4-hydroxyquinoline-2(1*H*)-ones
A. Detsi, V. Bardakos, J. Markopoulos and O. Iglessi-Markopoulou

Catalytic enantioselective reactions. Part 9. 1,2-*O*- α -isopropylidene-5-deoxy-5-*N,N*-dialkyl (or *N*-monoalkyl)amino- α -D-xylofuranose derivatives as the highly effective chiral catalysts for enantioselective addition of diethylzinc to aliphatic and aromatic aldehydes
B.T. Cho and N. Kim

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J. Cornforth, P.B. Hitchcock and P. Rozos

Helical thiaaza[2.2]metacyclophanes; synthesis, structure, circular dichroism and absolute configuration
F. Vögtle, D. Müller, M. Böhme, M. Nieger and K. Rissanen

Remote functionalization by tandem radical chain reactions
D. Wiedenfeld

Synthesis of alkylene linked bis-THA and alkylene linked benzyl-THA as highly potent and selective inhibitors and molecular probes of acetylcholinesterase
Y-P. Pang, F. Hong, P. Quiram, T. Jelacic and S. Brimijohn

Synthesis of bicyclo[4.1.0]hept-2-enes (norcarenes) by photochemical reaction of bicyclo[2.2.2]oct-5-en-2-ones
S. Katayama, H. Hiramatsu, K-I. Aoe and M. Yamauchi

Use of highly stereospecific 1,3-dipolar cycloaddition reactions of cyclic nitrones with acetylenes in the preparation of novel heterocyclic ring systems
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Episulfone substitution and ring-opening reactions *via* α -sulfonyl carbanion intermediates
A.P. Dishington, R.E. Douthwaite, A. Mortlock, A.B. Muccioli and N.S. Simpkins

Synthetic approaches toward ecteinascidins. Preparation of a (*E*)-2-arylidene-3-benzyl-4-oxo-1,5-imino-3-benzazocine having a protected phenol at the E-ring
N. Saito, K. Tashiro, Y. Maru, K. Yamaguchi and A. Kubo

Synthesis and reactions of lactam sulfonium salts with a sulfonyl bridgehead. 4,4a,5,6-tetrahydro-5-oxo-1*H*-thiopyrano[1,2-*a*]-1,4-benzothiazinium perchlorates
T. Kataoka, Y. Nakamura, H. Matsumoto, T. Iwama, H. Kondo, H. Shimizu, O. Muraoka and G. Tanabe

2-Halogeno-1,3-dithiane 1,3-dioxide: a diastereoselective carbonyl anion equivalent in reactions with aldehydes
V.K. Aggarwal, G. Boccardo, J.M. Worrall, H. Adams and R. Alexander

Lignin glycosides: preparation and optical resolution
R.F. Helm, M. Toikka, K. Li and G. Brunow

Stereoselective synthesis of (*Z*)- α -(alkoxycarbonyl)methylene β - and γ -lactones by palladium-catalysed oxidative carbonylation of alkynols
B. Gabriele, G. Salerno, F. de Pascali, M. Costa and G.P. Chiusoli

Studies on the role of conformation and of hydrogen-bonding on the dihydroxylation of cyclic allylic alcohols: application to the synthesis of conduritol D
T.J. Donohoe, R.L. Beddoes and P.R. Moore

Stereochemistry of the methoxide induced rearrangement of an α -bromophosphonamide: cleavage of the P–N and P–C Bonds in the azaphosphiridine oxide intermediate
M.J.P. Harger and R. Sreedharan-Menon

35th National Organic Symposium

June 22-26, 1997
Trinity University, San Antonio, Texas

Roger Adams Awardee Address by
K. Barry Sharpless, Scripps Research Institute

Plenary Lectures

Jacqueline Barton	California Institute of Technology
Maurice S. Brookhart	University of North Carolina
Samuel Danishefsky	Columbia University
Franklin Davis	Temple University
Jonathan Ellman	University of California, Berkeley
Albert Eschenmoser	ETH-Zürich
Albert Meyers	Colorado State University
Ned Porter	Duke University
Paul Reider	Merck & Company
W. Clark Still	Columbia University
Chi-Huey Wong	Scripps Research Institute

POSTER SESSIONS

Symposium participants are encouraged to submit poster presentations.

SPECIAL LECTURE

In addition to the scientific program; **Jeffrey Seeman**, the Editor of the important and popular series of autobiographies of eminent organic chemists entitled "Profiles, Pathway and Dreams" has agreed to present the Wednesday evening lecture.

Registration and Information Brochures will be mailed to all members of the ACS Divisions of Organic and Medicinal Chemistry in ~ January, 1997.

For further information, please contact:

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