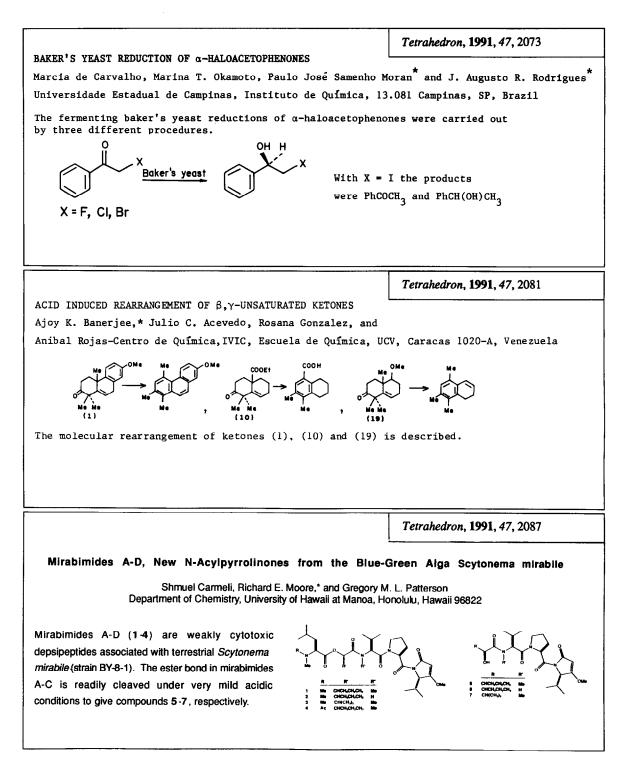
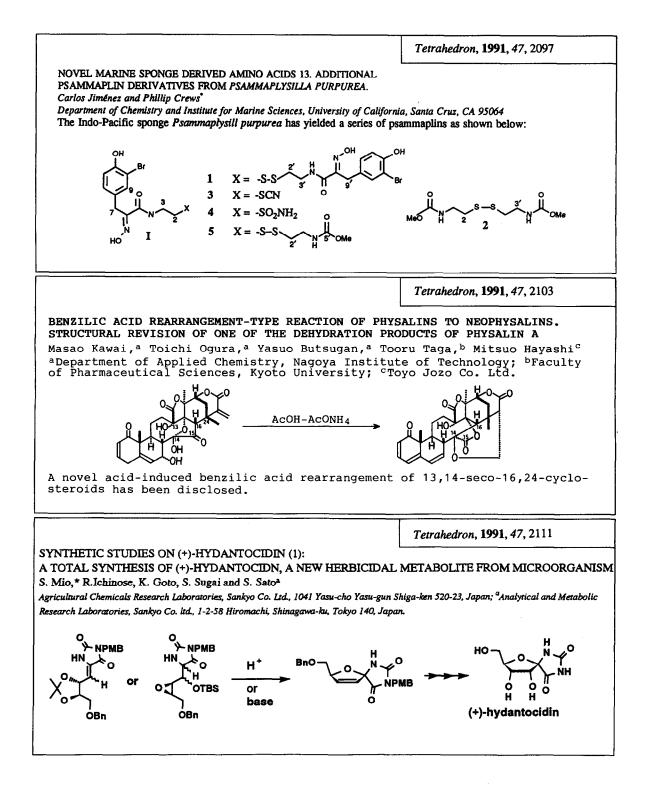
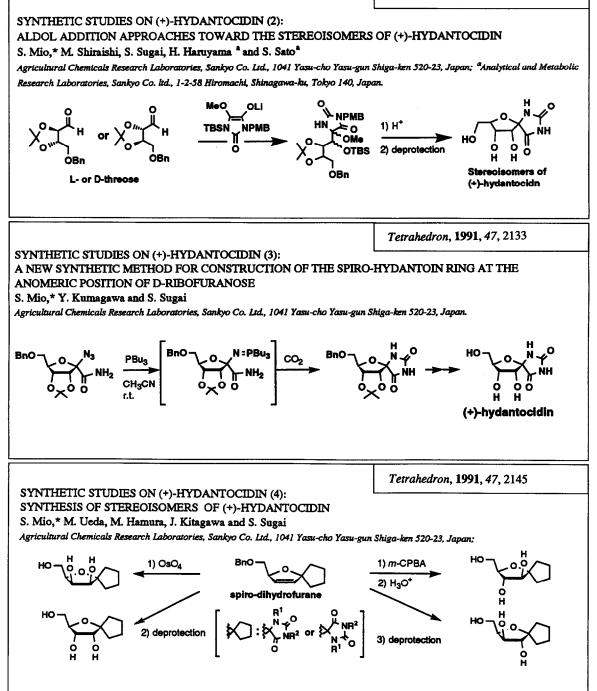
## **GRAPHICAL ABSTRACTS**

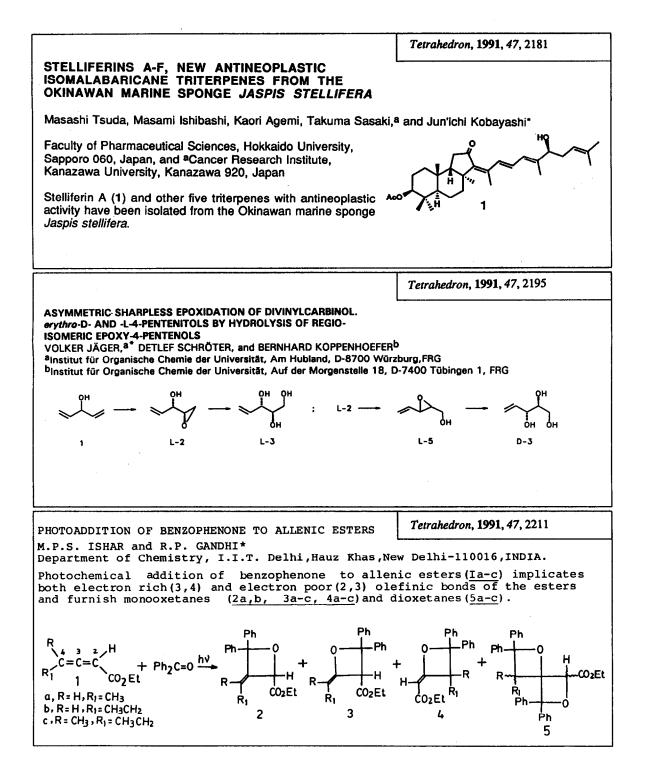




Tetrahedron, 1991, 47, 2121



Tetrahedron, 1991, 47, 2155 TOTAL SYNTHESIS OF (±)-(Z)-9-(BROMOMETHYLENE)-1,5,5-TRIMETHYLSPIRO [5.5] UNDECA-1,7-DIEN-3-ONE, A BROMINATED SESQUITERPENE OF THE CHAMIGRANE TYPE Haruki Niwa,\* Yoshifumi Yoshida, Takashi Hasegawa, and Kiyoyuki Yamada\* Department of Chemistry, Faculty of Science, Nagoya University, Chikusa, Nagoya 464, Japan сно Br Tetrahedron, 1991, 47, 2163 A NEW SYNTHESIS OF THE ENANTIOMERS OF IPSDIENOL, THE PHEROMONE OF THE Ips BARK BEETLE Kenji Mori<sup>\*</sup> and Hirosato Takikawa, Department of Agricultural Chemistry, The University of Tokyo, Yayoi 1-1-1, Bunkyo-ku, Tokyo 113, Japan Serine Abstract — The enantiomers (~96% e.e.) of ipsdienol (2-methyl-6-methylene-2,7-octadien-4-ol) were synthesized from the enantiomers of serine in 16-21% overall yield in 8 steps. Tetrahedron, 1991, 47, 2169 MARINE NATURAL PRODUCTS, XXV, BIOLOGICALLY D-MeLeu ← L-Val - COCH<sub>2</sub>OCH<sub>3</sub> ACTIVE TRIDECAPEPTIDE LACTONES FROM THE OKINAWAN MARINE SPONGE THEONELLA SWINHOEL L-Thr →βAla→D-Leu→L-MeIle →βAla (THEONELLIDAE)(1). STRUCTURE OF THEONELLA-PEPTOLIDE ID. 0 D-a∐e Isao Kitagawa,\* Nam Kyung Lee, Motomasa Kobayashi, and Hirotaka Shibuya D-Mealle ← D-Leu ← βAla ← L-MeAla ← L-MeVal Faculty of Pharmaceutical Sciences, Osaka University, 1-6, Yamada-oka, theonellapeptolide Id Suita, Osaka 565, Japan The structure of theonellapeptolide Id was determined.



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Tetrahedron, 1991, 47, 2221 A GENERAL SYNTHESIS OF CALIX[4]ARENE MONOALKYL ETHERS Alessandro Casnati, Arturo Arduini, Eleonora Ghidini, Andrea Pochini and Rocco Ungaro Istituto di Chimica Organica, Viale delle Scienze, I-43100 Parma, Italy A method for the first general and high yield synthesis of calix[4]arene monoalkyl ethers (4) has been developed. (CH3)3511 CHC1 (2) (3) (4) Tetrahedron, 1991, 47, 2229 FORMATION OF 1,3-PERHYDROBENZOXAZINES AND THEIR N-METHYL DERIVATIVES. A COMPARATIVE STUDY. Aija Parkkinen<sup>®</sup>, Ferenc Fülöp and Kalevi Pihlaja Department of Chemistry, University of Turku, SF-20500 Turku, Finland Abstract: Perhydro-1,3-oxazines (3) were formed through the cyclization of <u>p</u>-nitrobenzaldehy de with 1 and 2 or with 1m and 2m. The reactions with 1 and 2 proceeded via the Schiff base type open-chain intermediates. The cyclizations of 1m and 2m were much faster than those of the corresponding hydroxymethylcyclohexylamines studied earlier. The cyclization of 1 was kinetically controlled but in much lesser extent than the corresponding reaction of <u>cis</u>-2hydroxymethyl-1-cyclohexylamine but the cyclization reactions were not diastereospecific. + <u>p</u>-0<sub>2</sub>NC<sub>6</sub>H<sub>4</sub>CHO  $\longrightarrow$  Schiff base  $\_\_$ 3m: R = H Tetrahedron, 1991, 47, 2237 Intramolecular Cyclization-Trapping of Carbon Radicals by Olefins as means to Functionalize 2'- and 3'-carbons in B-D-nucleosides J.-C. Wu, Z. Xi, C. Gioeli & J. Chattopadhyaya\* Department of Bioorganic Chemistry, Box 581, Biomedical Center, University of Uppsala, S-751 23 Uppsala, Sweden Intramolecular radical addition-cyclization reactions from easily BO HO accessible precursors conveniently give access to four isomeric [3.3.0]-fused bis-furan uridines (x = alkyl) in high yields.

## AN UNEXPECTED REARRANGEMENT OF

Tetrahedron, 1991, 47, 2255

