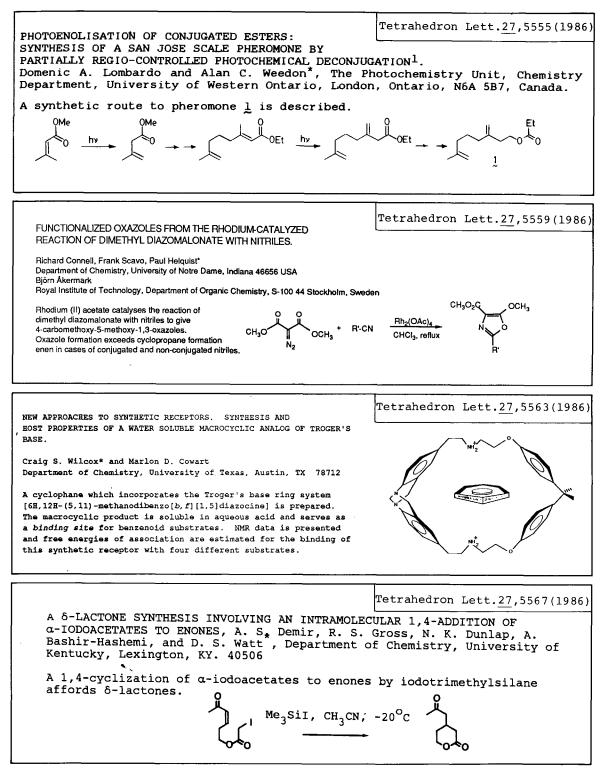
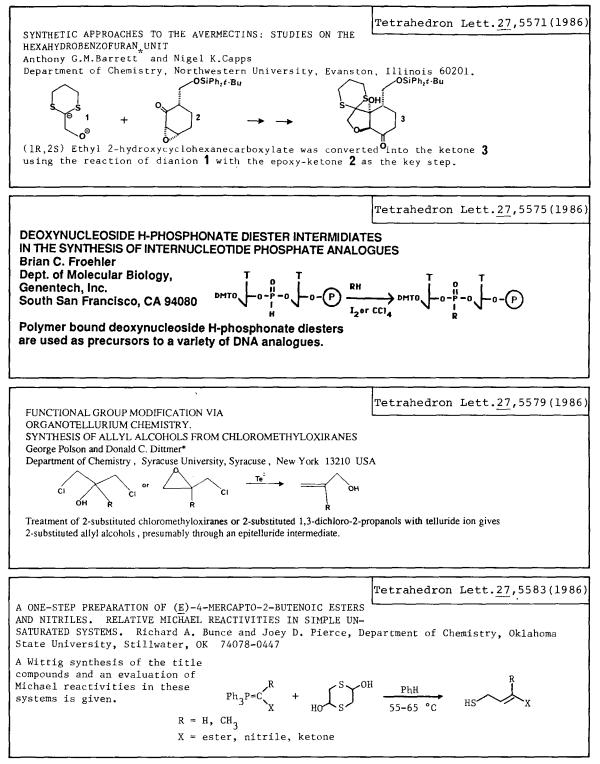
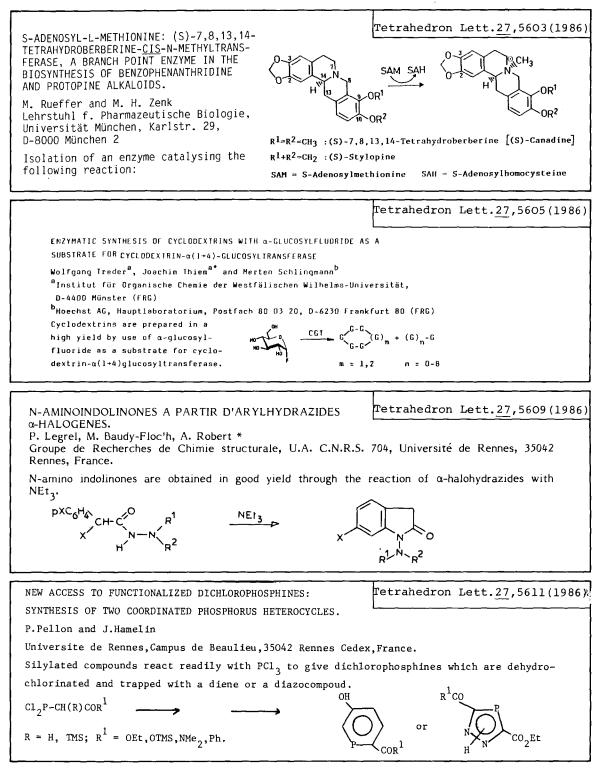
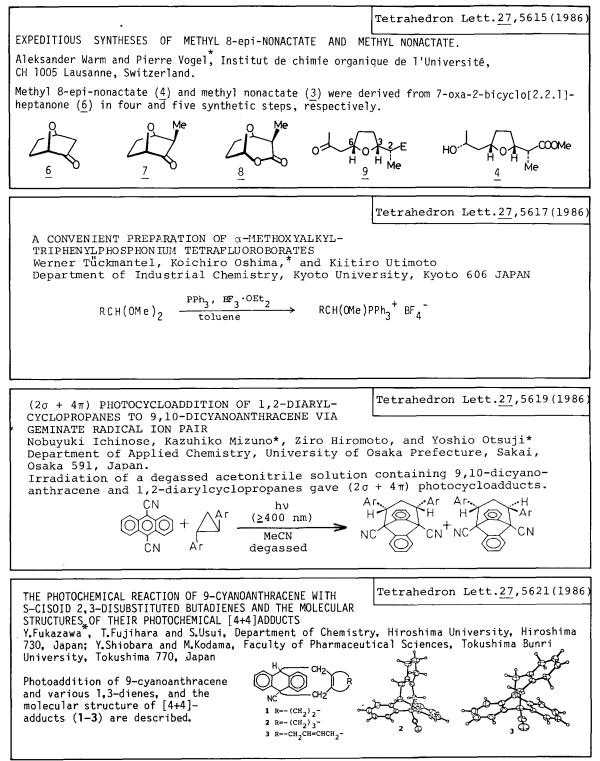
GRAPHICAL ABSTRACTS

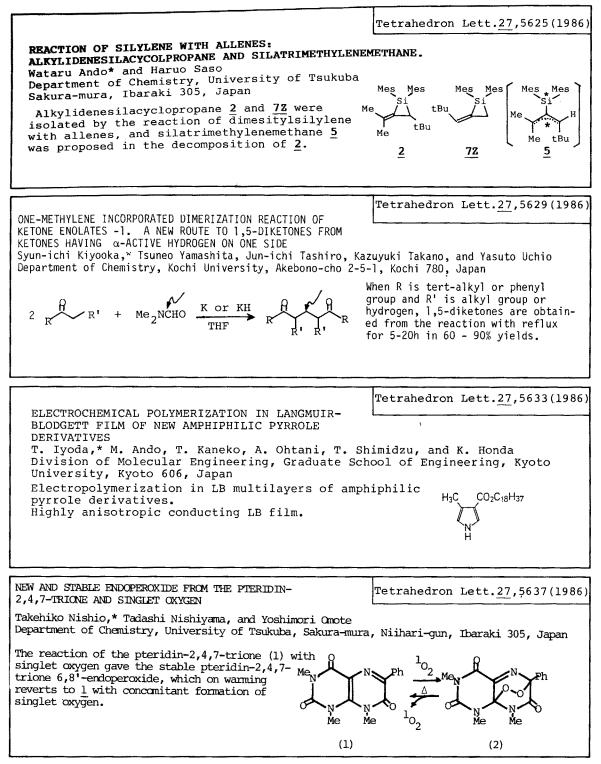


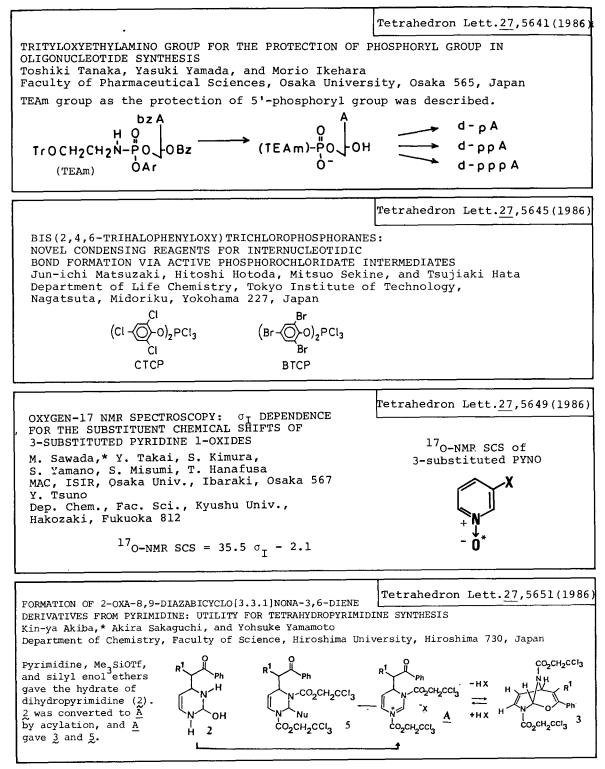


Tetrahedron Lett.27,5587(1986) THE STRUCTURE OF LEPTOSPHAERIN Guy A. Schiehser, James D. White*, Gayle Matsumoto, John O. Pezzanite, and Jon Clardy Departments of Chemistry, Oregon State University, Corvallis, OR 97331 and Cornell University, Ithaca, NY 14853 The structure and relative configuration of leptosphaerin 2, a metabolite of the marine ascomycete Leptosphaeria oraemaris (Linder), was X=NH, Y=O established by spectral analysis and elimination HO X=O, Y=NH of an alternate structure 1 through synthesis. ÓН Tetrahedron Lett.27,5591(1986) THE SYNTHESIS AND ABSOLUTE CONFIGURATION OF (+)-LEPTOSPHAERIN Alexander J. Pallenberg and James D. White* Department of Chemistry, Oregon State University, Corvallis, OR 97331 A synthesis of (+)-leptosphaerin, a metabolite of the marine ascomycete Leptosphaeria oraemaris (Linder), was accomplished from (R)-glyceraldehyde OCH₂Ph by a route that confirmed the NHAc structural assignment and 1 LDA, THF/HMPA established the absolute 2 (R) - glyceraldehyde ŅНМе ОН configuration as (4S,5R). PhS Tetrahedron Lett.27,5595(1986) EFFICIENT PREPARATION OF HOMOCHIRAL BICYCLO-ANNULATED CYCLOPENTADIENES VIA THE SKATTEBØL REARRANGEMENT. AVOIDANCE OF LIMITATIONS DUE TO ANGLE STRAIN. Mark L. McLaughlin, Jeffrey A. McKinney, and Leo A. Paquette* Department of Chemistry, The Ohio State University, Columbus, Ohio 43210 USA Syntheses of annulated cyclopentadienes 3 and 4 are described. Tetrahedron Lett.27,5599(1986) TRANSITION METAL COMPLEXATION OF OPTICALLY PURE ANNULATED CYCLOPENTADIENES. FACE SELECTIVITY. THREE-DIMENSIONAL STRUCTURAL FEATURES, AND UTILIZATION FOR ASYMMETRIC HYDROGENATION. Leo A. Paquette,* Jeffrey A. McKinney, Mark L. McLaughlin, and Arnold L. Rheingold Departments of Chemistry, The Ohio State University, Columbus, Ohio 43210 and The University of Delaware, Newark, Delaware 19711 USA Complexation of 1 and 4 to Fe and Ti takes place with the indicated stereoselectivity. Use of **3** and **5** as enantioselective hydrogenation catalysts is described.









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