## **GRAPHICAL ABSTRACTS**









Tetrahedron, 1994, 50, 8737 EXPRESSION IN E.COLI OF A CLAVAMINIC ACID SYNTHASE ISOZYME: A TRIFUNCTIONAL OXYGENASE INVOLVED IN CLAVULANIC ACID BIOSYNTHESIS Elizabeth J. Lawlor<sup>†</sup>, Stephen W. Elson<sup>†</sup>, Susan Holland<sup>†</sup>, Robert Cassels<sup>†</sup>, John E. Hodgson<sup>†</sup>, Matthew D. Lloyd<sup>ø</sup>, Jack E. Baldwin<sup>ø</sup>, and Christopher J. Schoffeld<sup>ø</sup>.<sup>†</sup> SmithKline Beecham Pharmaceuticals, Brockham Park, Betchworth, Surrey, RH3 7AJ, U.K.<sup>Ø</sup> The Dyson Perrins Laboratory, South Parks Road, Oxford OX1 3QY, U.K. NHR ČO₂H CO'H COAH CO'H 🕳 R = OH, R' = H PAH C PAH  $R = OH, R' = C(=NH)NH_2$ CAS  $R = H, R' = C(=NH)NH_2$ Tetrahedron, 1994, 50, 8749 2,7-Dimethyltricyclo[4.3.1.1<sup>3,8</sup>]undecane-syn-2,syn-7-diol as a Host for Volatile and Odorous Guest Molecules Roger Bishop,\* Donald C. Craig, Athanasios Marougkas and Marcia L. Scudder School of Chemistry, University of New South Wales, Sydney 2052, Australia The title compound 1 forms two predictable types of lattice inclusion compound  $CH_3$ CH<sub>3</sub> depending on the size and shape of the guest molecule chosen. This paper examines the potential of 1 for inclusion of small volatile or odorous guests, and the crystal HO OH structures of the helical tubulate (1)3 (CBr<sub>2</sub>F<sub>2</sub>) and ellipsoidal clathrate (1)4 (CS<sub>2</sub>) are presented. The guest in the latter is trapped between two interpenetrating sublattices and thus I has excellent prospects as a trapping or storage agent. Tetrahedron, 1994, 50, 8757 BIOMIMETIC OXIDATION OF THE ANTIMELANOMA AGENT 4-S-CYSTEAMINYLPHENOL AND RELATED CATECHOL THIOETHERS: ISOLATION AND REACTION BEHAVIOUR OF NOVEL DIHYDROBENZOTHIAZINEQUINONES. D. Mascagna, C. Costantini, M. d'Ischia and G. Prota Dept. Org. Biol. Chem., University of Naples, Via Mezzocannone 16, Naples, Italy HO Tyrosinase or NoiO4 or KiO3 peroxidase 7, R<sub>1</sub>-H 13, R<sub>1</sub>-COOH  $\begin{array}{l} R=R_{1}=H\\ R=OH, R_{1}=H \end{array}$ -CO,H 3, R-OH, R, - CO, H Tetrahedron, 1994, 50, 8765 ISOMERISATION OF 1-METHYLENE-2-METHYL-2-(2-OXOPROPYL) - CYCLOHEXANES TO 2-METHYLENE-1-METHYL-1-(2-OXOPROPYL)-CYCLOHEXANES BY ENE AND RETRO-ENE REACTION A. Srikrishna, \* S. Venkateswarlu, S. Nagaraju and K. Krishnan Department of Organic Chemistry, Indian Institute of Science Bangalore - 560 012, India.





