

ABSTRACT

López-Allied, Carlos Miguel

This paper will study the microbial arene oxidation and its application to the synthesis of novel optically active natural products with biological activity. It will review concepts of biosynthesis, enzymatic reactions and also an approach to the mechanism, yields and experimental procedure. It will give an insight into the transformation of benzoic acid in ipso, ortho diol by Benzoate Dioxygenase, these products have a central role in this work. Much of this work turns around the study of the possible reactions over these compounds, also will investigate synthesis of compounds used or which could be used as drugs from ipso, ortho diol. Finally, there will be an explanation of the objectives of the project that is being carried out simultaneously and its scientific interest.