



AN EVALUATIVE ANALYSIS OF IMPORTANCE OF QSAR IN SYNTHETIC CHEMISTRY

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ABSTRACT

Quantitative structure-activity relationship (QSAR) modeling pertains to the construction of predictive models of biological activities as a function of structural and molecular information of a compound library. Over the last 20 years, extensive QSAR studies establish an attractive approach to the elucidation of the modern drug chemistry. In the recent years, constant increase in the performance of hardware and software transformed quantitative structure activity relationship (QSAR) and quantitative structure property relationship (QSPR) into powerful and widely used model for the prediction of many biological properties in the field of medicinal chemistry and bioinformatics. The aim of this article is to give an overview of the modern drug chemistry and the importance of various techniques used in the field of drug chemistry such as bioinformatics, QSAR/QSPR, cheminformatics. QSAR is an effective method in the field of medicinal research into rational drug design and mechanism of drug action. The review attempts to account the importance in synthetic chemistry and its related research while using different techniques i.e. QSAR.

KEYWORDS- Synthetic Chemistry, QSAR, Drug Design, Drug Development. Quantitative Structure-Property Relationship.
