**BIOMIMETIC OXIDATION REACTIONS OF CATECHOLS**

**RECENT PROGRESS AND FUTURE NEEDS”**

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**Abstract**

An important goal in supramolecular chemistry is the synthesis of molecules that exhibit catalytic activity analogous to the activity of enzymes. A number of catalysts having bio-mimicking activity for different enzymes have been designed by the chemists[1]. Such artificial enzymes have same catalytic function but these are more stable and structurally less complex than enzymes. Synthetic enzyme models are helpful in understanding the mechanistic aspects of enzyme action. Thus the studies on the model compounds mimicking[2] are very useful and promising for the development of new, more efficient bioinspired, environment friendly catalysts which may find future applications in industrial synthesis. Biochemically important processes like catalytic oxidation of 3,5-di-tert-butylcatechol to quinone (Catecholase activity) and hydrolytic reactions[3].

**References**

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