

Simple Dynamic Combinatorial Libraries in the search for novel selective anion receptors

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Dynamic Combinatorial Chemistry is a very useful method in searching for novel effective and selective receptors. The library of potential receptors for various anions was obtained using the DCC techniques. Anion binding moiety- modified 5-hydroxychelidamic acid, 5-hydroxyisophthalic acid and 3,4-diethylpyrrolic-2,5- dicarboxylic acid was mixed with three linkers to form a separate library. The reversible reactions between terminal bisamide and bisaldehyde resulted in a formation of a mixture of substrates and their linear and cyclic oligomers. Such library was then templated with several anions in separate experiments to amplify the most effective receptors.

