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Advancement in the Drug Delivery by using Polymers of Natural Origin

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A polymer is a large molecule which consist of repeating structure units or chain connected by co-valent chemical bond. The formulation of solid, liquid, and semi solid dosage form by polymer. The natural polymer are very important for pharmaceutical industry because they are economical, readily available, non toxic and capable of chemical modification and having the property of biodegradability. Polymers consist of long chain branched or unbranched monomer or may be crosslinked networks of monomer in two or three dimation. The useful features of a polymer are its swelling ability which manifests itself. When swelling can be triggered by a change environment around the delivery system. The polymer is depend upon the pH, temperature, ionic strength. The important nature material are organicpolymer such as cellulose, lignine, ruber, protein, nucleic acid. Synthetic organic polymer many plastic, polythene nylons, polyester.natural polymer ispagula, acacia, agar, gelatin. The drug release can be controlled by polymer through the process of formulation .natural polymers are readily available potential and degradable multitude of chemical modification and compatible due to there origin. That's why theyremains attractive primarily.