Herbal polymers in designing of controlled drug delivery systems

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Polymers are the most important excipients that affect and control a wide range of properties of any pharmaceutical formulation. Semi-synthetic and synthetic polymers found broad scope in controlled drug delivery systems and polymers such as hydroxyl propyl cellulose, hydroxyl ethyl cellulose, sodium carboxy methyl cellulose, hydroxyl propyl methyl cellulose, polyvinyl pyrrolidone, pectin, carrageenan and guar gum have wide application in the pharmaceutical industry. But, while selecting polymers, its toxicity, drug compatibility and degradation pattern must be considered for safe and effective drug delivery. Nowadays, due to many problems associated with drug release and side effects, manufacturers are inclined towards using natural polymers. Natural/herbal polymers are basically polysaccharides so they are biocompatible and without any side effects. The authors address and discuss about various natural/herbal polymers, their merits over synthetic polymers and their role in designing controlled drug delivery systems.

Biography
Sunita Dahiya has completed her PhD from Gautam Budh Technical University, Uttar Pradesh and she is presently serving at Globus College of Pharmacy, Bhopal, Madhya Pradesh in capacity of HOD and Professor of Pharmaceutics. She has published 25 articles in journals of national and international repute and she is a Member of various professional bodies including APP, IPA, APTI, IPGA, IHPA, ICCE etc. Presently, she is an Executive Editor of international peer-reviewed journal ‘Bulletin of Pharmaceutical Research’ and Secretary of the ‘Association of Pharmacy Professionals’.

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