

세미나 초록

발표주제	Polysaccharide-based scaffolds for multifunctional medical applications
발표내용	<p>This review will focus in a selective way on the structure and function of polysaccharides, chitin/chitosan, and hyaluronic acid (HyA). Chitin is a natural polysaccharide in which next it is most abundant in on earth as the second opinion with cellulose among the natural polymer. Chitosan, the deacetylated product of chitin, has free amine groups in its backbone. As it is to biodegrade in vivo and to interfere with the growth of a bacteria and mold, it has been known a potential biomaterial as self-antimicrobial material. HyA, the ubiquitous ECM glycosaminoglycan, supports cell migration within the tissues during embryonic morphogenesis, wound healing and inflammatory leukocyte homing. HyA makes multiple weak binding interactions with migrating cells through the CD44, type I transmembrane glycoprotein.</p> <p>The current review looks into studies on the physiochemical characteristics and biological properties of the polysaccharide scaffolds and vehicles for medical device and cell/tissue engineering, and on its anticancer applications etc.</p>