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Polymer matrix supported drug delivery system: Designing controlled-release formulations involving concept of nano-technology

Main purposes of drug delivery system (DDS) are improvement of drug absorption, controlled-release of drug and passive and/or active tissue targeting to maintain optimal drug levels in tissues. So called, all these concepts are for the sake of optimization of drug therapy. In regard to the controlled-release system, a large number of studies about it elsewhere in literatures, and numerous formulations have been provided by pharmaceutical industries on the market. On the other hand, progress in nano-technology has developed several ways to construct nano-device for DDS, and has enabled us to prepare DDS formulations which have more intelligent functions such as cancer or gene targeting. Nevertheless, as pharmaceutical additives, polymers which are derived from natural or artificial sources have important roles for designing DDS based on the nano-concept. In this keynote lecture, I'll introduce my researches about construction of polymer matrix supported DDS, which are controlled-release systems, based on the nano-concept.

Biography

Nobuhito Shibata was born in 1962. After finishing a master course of clinical pharmacy at Kyoto Pharmaceutical University in 1986, He worked for Shiga University of Medical Science for 13 years as a hospital pharmacist. During this period, he got a PhD degree (Pharmaceutical Sciences) from Kyoto Pharmaceutical University. Subsequently, he changed his career and worked for Kyoto Pharmaceutical University for 6 years as an associate professor in the field of pharmacokinetics. In 2005, he was transferred to a higher post at Doshisha Women's College of Liberal Arts as a professor of Faculty of Pharmaceutical Science. His research interests focus on the constructing drug delivery system using nano-particles.

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