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TITLE

Dendrimer Based Macromolecules as **Drug Carrier**

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endrimers, spherical macromolecules with numerous inner branches, are attractive molecule for the delivery of various types of drugs including nucleic acids (e.g., antisense oligonucleotide, siRNA, and plasmid gene) into cells or tissues. However, cellular delivery of drugs by dendrimer has been limited in its effectiveness as well as in vivo efficacy due to cytotoxicity and biocompatibility. To overcome these problems and improve the delivery efficiency of drug, various surface modification efforts has been made on dendrimer such as pegylation, grafting with polymer, conjugation with ligands. In this talk, I shall present our data on dendrimer-based structural modification and their relevance for the application of drug delivery.

Biography

Dr. Yoo completed his Ph.D in biochemistry at the Florida State University in 1998 and postdoctoral studies from University of North Carolina at Chapel Hill. He joined School of Dentistry, Chosun University in 2002, where he has been continued his research work in the field of drug delivery.