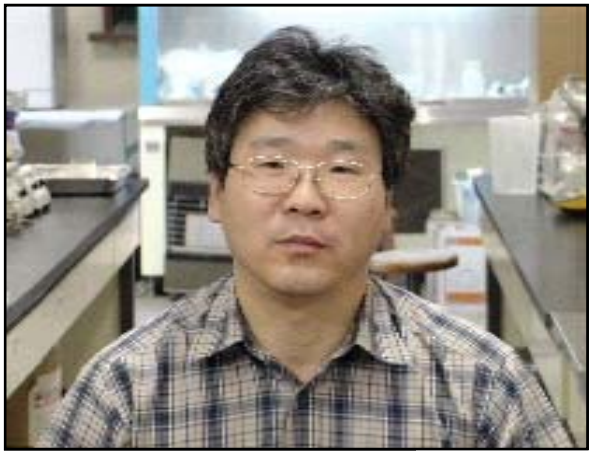
CHUNG-ANG UNIVERSITY
中央大學校

Speaking Language: Japanese

Preparation of Photoreactive Natural Polymer Derivatives for The Stabilization Protein Drugs and Its Medical Application

淡白質薬物の安定化のため光反応性の天然高分子誘導体の合成とその医学的な応用



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Location: 筑波大学総合B棟 0108 プレゼンルーム

The diverse biological effects are known by binding to cell surface receptors of bio-signal molecules. Therefore, the stabilization of bio-signal molecules such as hormones and growth factors are especially important for clinical therapeutics like drug delivery system and tissue regeneration system. Many methods for immobilization of biomolecules have been examined and developed. Among the methods, light-induced immobilization techniques have been investigated and used up to recently. These immobilization techniques have many advantages that are temperature and pH independent. So, I have been studying various natural polymer with the photo immobilization techniques to stabilize protein drugs for medical application. In this seminar, I will address about preparation methods of photoreactive natural polymer(chitosan, gelatin, hyaluronic acid and so on.) derivatives and their properties. Also, this seminar will cover protein immobilization, animal experiment, cytotoxicity test, and other