

3rd International Conference and Exhibition on **Biosensors & Bioelectronics**

August 11-13, 2014 Hilton San Antonio Airport, San Antonio, USA

Effective therapy for prostate cancers

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In this work, the author has developed the first ultra-effective photothermal agents for prostate cancer-targeted therapy. The newly synthesized probe was found to be intensely and specifically accumulated into all prostate cancer cells without any impact on the cell viability, resulting in tremendously efficient targeted therapy. To apply this probe for in vivo therapies, efforts have been made to overcome various problems, such as short half-life of the particles in the circulation, low permeability of them, and instability of aptamers in the blood. It is expected that successful further study makes aptamer-modified nanoparticles the promising in vivo therapeutic nanomaterials for the treatment of not only prostate cancers but also other carcinomas.

Biography

Hunho Jo has completed his BS at the age of 21 years from Pohang University of Science and Technology (POSTECH). He is a graduate student in the Department of Chemistry at POSTECH.

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