

Process Innovation in Bio/Nanotechnology

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ABSTRACT

Innovative nanotemplating technique. Protein could be used as linkers that would control or direct the assembly and ordering of nanomaterials into functional structures in multicomponent systems that would otherwise be difficult to achieve. Possibility of harnessing Genetically Engineered Proteins capable of recognising Inorganics (GEPI) as molecular erectors in nanotemplating are actively being undertaken and some of initial promising results will be addressed in the talk.

About the Speaker

Dr Woo-Seok Choe is an assistant professor in the Department of Chemical and Biomolecular Engineering at National University of Singapore (NUS). Before joining NUS, he has worked in the design of engineered protein for inorganics (GEPI) as a post-doctoral researcher at University of Washington. He was awarded his PhD (Chem Eng) at University of Cambridge in 2002, his MSc (Chem Eng) and BSc (Chem Eng) at Seoul National University in 1991 and 1993 respectively. Before starting his PhD studies, he worked for six years (1992-1998) at Doosan Biotech (Korea). He also serves as an editorial member or referee in *Journal of Microbiology and Biotechnology*, *Journal of Chromatography A*, *Applied and Environmental Microbiology* and *Transactions of IChemE*.