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McMaster University, Canada

Recent developments in biosynthesis of noble metal nanoparticles and application in nanobiotechnology

Production of silver and gold nanoparticles by biosynthesis have many advantages over chemical and physical synthesis. Biogenic nanoparticles are cheaper, environmental friendly, and biologically compatible as compared to chemical and physical method. In this presentation different biosynthesis methods of nanoparticles are discussed such as using microbial cells, bacteria, yeasts and moulds under different environmental conditions. Optimization, scale-up, engineering and applications of nanoparticles such as antimicrobilal agents, nanomedicine, diagnosis & therapy, in addition to gene and drug delivery will also be discussed.

Speaker Biography

Faiez Alani obtained his PhD and MSc from University of Strathclyde and was Visiting Professor at University of Waterloo. He was Assistant Professor at Brandon University, Manitoba, and currently is Associate Professor of Nanobiotechnology at School of Engineering Practice and Technology at McMaster University. He served as Chair of Biotechnology at McMaster and is serving as Editorial Board Member for *The International Journal of Engineering Education (IJEE),* and *Journal of Science and Technology Policy Management* (JSTPM), Member of the Society for Industrial Microbiology and Biotechnology. He has published more than 30 papers in world class journals.

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