**Praveen Kumar Vemula, PhD**

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Dr. Vemula is an instructor in Department of Medicine, Harvard Medical School, Brigham and Women's Hospital; currently he is conducting research in Prof. Jeffrey M. Karp's laboratory at Harvard-MIT Division of Health Science and Technology. He has published over 25 peer reviewed papers, 10 abstracts, one book chapter and has 10 provisional pending patents/technology disclosures. Five of his research papers were appeared as cover page articles. Dr. Vemula obtained Ph.D. from Indian Institute of Science, India in Organic Chemistry under supervision of Prof. Santanu Bhattacharya. He carried out doctoral research in the area of developing novel catalysts for decontamination reactions in various supramolecular nanoaggregates, detailed experimental and computational studies. He joined the City College of New York as postdoctoral fellow in Prof. George John's laboratory for over two years. During that time he has developed a novel concept of *in situ* preparation of organic-inorganic hybrid materials by designing a wide range of 'smart amphiphiles' that have the ability to generate nanoparticles-embedded self-assembled nanoarchitectures, which has been published in peer reviewed journals like Nature Materials, Angewandte Chemie, Chemical Communications and Chemistry of Materials so on. Subsequently this concept has been expanded to variety of soft nanomaterials. In 2008 he has joined Harvard Medical School as postdoctoral research fellow in Dr. Karp's laboratory, currently working towards developing next-generation biomaterials to solve challenging problems in biomedical research. In 2009 he was selected as one of the thirteen fellows in USA for the prestigious entrepreneur fellowship from the Ewing Marion Kauffman Foundation, where he is closely working with the foundation to commercialize the biomedical technologies. Dr. Vemula's team won the 'products and services' track and placed 2$^{nd}$ in the final of prestigious MIT $100K Business Plan Competition-2010 based on technology to create insulin chewing gum. His in situ synthesis of hybrid materials work has been selected as center-spread article in CUNY matters Decade of Science issue. Dr. Vemula's work related to development of novel concepts in drug delivery, antibacterial paints and soft-hard hybrid nanomaterials has been recognized by Nature, Nature Materials, Nature Nanotechnology, The New York Times, Newsweek, Chemical & Engineering News, Scientific American, Materials Research Society, Materials Today, American Chemical Society, United Press International, Nanotechnology News, Nanowerk, Green Chemistry Network, National Science Foundation and National Institute of Health.