

The Use of Nanoscience and Technology in Biology and Medicine

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The advent of technological breakthroughs in nanofabrication, material science, and computing power coupled with the biotechnology revolution of the past 3 decades has led to a major revolution in the biological sciences and medicine. This has led to significant progress in the field of cancer research, cardiovascular medicine, AIDS diagnostics and therapeutics, genetics, to name just a few. Critical to this development has been the confluence of various scientific disciplines to solve a common biological problem. In this lecture, I will discuss and present examples of how nanoscience and technology has brought about this revolution in medicine.