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## Editorial

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Nano and biomaterials have great potential for advanced applications and new frontiers particularly in the fields of nanomedicine and drug delivery. Probably one of the most publicised example is cancer treatment based on gold nanoparticles or carbon nanotubes (CNTs). In this application, CNTs are directed in a special technique to encirculate the tumour and then is subjected to radio waves, which heats up the cancer cells to a termination temperature. One challenge is to make such nanoparticles in a bioavailable, biocompatible and easily disposable forms. Nano and biomaterials have limitless potential, as reflected in the themes of the International Conference on Nanotechnology: Opportunities and Challenges (ICON008) organised by The Center of Nanotechnology, King Abdulaziz University, Jeddah, Saudi Arabia. The conference highlighted the potential of using such particles in the fields of nanobiotechnology, as well as providing an international platform for interaction and long-term collaboration between international researchers and Saudi and Arab nanotechnology experts. The long-term well-being and sustained socio-economical global development using nanotechnology was behind the vision of the organisers of the conference.

The conference organisers are indebted for *The International Journal of Nano and Biomaterials* for devoting this special issue to the accepted papers submitted to the conference. They also extend all thanks and gratitude for all the invaluable scientific contributions of all the authors, referees and editorial board of the journal for the rigorous efforts put towards this special issue.