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Advances in Nanomedicine 2010 (Area 12; Symp. #271)

Abstract submission deadline: April 5

Symposium organizers: Alexander Wei (Purdue University, USA); David T. Cramb (Univ. Calgary, Canada); Ick Chan Kwon (Korea Inst. Sci. Technol. (KIST), Korea); Masayuki Yokoyama (Jikei Univ. School Med., Japan)

Nanomedicine encompasses nanotechnologies that can be applied toward the betterment of human health. Applications can be diagnostic, prophylactic, therapeutic, or a combination of these, and are driven by the rational development of nanomaterials that can contribute toward a positive health impact, perhaps in a unique fashion. The synthesis, assembly, and functionalization of these nanomaterials remain a critical factor in their specific biomedical applications, and also in their successful integration with contemporary pharmaceutical and clinical practices.

This symposium will feature presentations in the following areas:

- A. Multifunctional nanoparticles for the integration of imaging and therapy (theranostics)
- B. Synthetic or self-assembled nanostructures for drug delivery and controlled release
- C. Biomedical diagnostics enhanced by nanotechnology
- D. Nanostructured materials for tissue engineering and regenerative medicine
- E. Nanotoxicology and challenges in the clinical translation of nanomaterials.

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