

# **6<sup>th</sup> World Congress on Biomechanics 2010**

August 1<sup>st</sup>, 2010 – August 6<sup>th</sup>, 2010. Singapore.

Announcements and Call for Abstracts

## ***Multi-scale Modeling and Simulation of Molecular and Supramolecular Structures***

The objective of Track 5.6 “Multi-scale Modeling and Simulation of Molecular and Supramolecular Structures” is to discuss the current state-of-art in computational models at various scales and simulations of macromolecular structures including biological structures such as proteins, DNA, and RNA, as well as nano-bio complex structures such as DNA-carbon nanotube complex for bio applications. The topics of interest will be included, but not limited to: (1) novel coarse-grained models, (2) continuum models, and/or (3) multiscale models of biological supramolecular structures (e.g. large protein structures, Ribosome, etc.), (4) fast computing algorithms for dynamic analysis (e.g. normal mode analysis) of biological supramolecular complex (e.g. viral capsid, etc.), (5) simulations of conformational transitions of proteins, (6) any other computational models for protein dynamics, protein mechanics, DNA/protein translocation through nanopore, and/or interaction between nanostructures and biological structures (e.g. CNT-DNA complex).

**Abstract by March 1, 2010.**

**Please submit the abstract at <http://www.wcb2010.net>.**

**Abstract should be submitted to:**

**Theme 5. Molecular Mechanics**

**Track 5.6. Multi-scale modeling and simulation of molecular and supramolecular structures**

**For any questions and inquiries, please contact the track chair:**

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