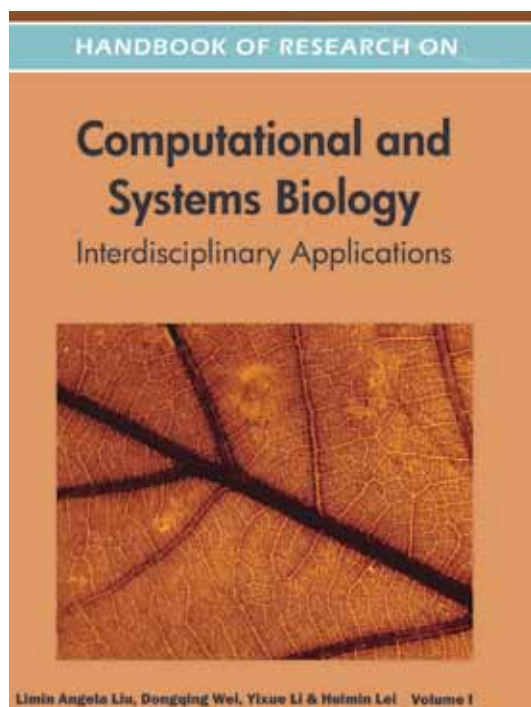


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Handbook of Research on Computational and Systems Biology: Interdisciplinary Applications



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The biological sciences have been among the most exciting and intensely pursued fields of science for the past several decades. The advancement of high-throughput technologies that generate large scale biological data as well as the development of related computational tools has enabled global efforts at understanding complex biological systems and brought revolutionary changes to biological research.

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- Granger causality
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- Vaccine development
- Virtual screening
- Visualization of protein 3d structures

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Limin Angela Liu, PhD, obtained her BSc degree from Tsinghua University, Beijing and her PhD degree from Carnegie Mellon University, USA. After postdoctoral research at Johns Hopkins University, USA, she became Associate Professor at Shanghai Jiao Tong University. Her recent work includes the establishment of an *ab initio* method for the prediction of transcription factor binding sites and a novel “tethered-hopping model” for describing the effects of protein-protein interactions on the formation and stability of ternary protein-DNA complexes.

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