

# From structure to function - advancing mechanisms from in-silico insights

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From structure to function - advancing mechanisms from in-silico insights, From structure to function - advancing mechanisms from in-silico insight. Recent advances in computer simulations now enable a regular elucidation of mechanisms that link structural biology to functional biology. The physics underlying these mechanisms will be reviewed and the links to observable made using examples such as how for example resistance arises in bacteria or how proteins are translocated into chambers for recycling within cells.

### Profile

*He is a Principal Investigator, leading the Structural/Functional Genomics Group at the Bioinformatics Institute, Singapore. He obtained his PhD in 1990 in the field of computer modelling of biomolecular systems. He has been at the Structural Biology Laboratory at York University (the first centre of excellence identified by the UK government in 1995) since 1990 and as an associate professor/reader since 2000. His research interests include molecular modelling of biomolecular systems and development of methods to bridge the gaps that exist between /in-silico/ and /in-vitro/in-vivo/. He has over 50 publications and has developed an extensive network of collaborations with about 25 groups (experimental and computational) internationally.*



**Date:** Friday, 26 Nov 2004  
**Time:** 4 - 5 pm  
**Venue:** LT 20  
**Host:** Dr Henry Mok

**Department of Biological Sciences  
Seminar Announcement**



**All are welcome**