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Session Title: **Gene Networks and Pathway Analysis**

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The past decade has witnessed an exponential growth of biological data including genomic sequences, gene annotations, expression and regulation, and protein-protein interactions. A key aim in the post-genome era is to systematically catalogue gene networks and pathways in a dynamic living cell and apply them to study diseases and phenotypes. This session focuses on the reconstruction and analysis of gene networks and pathways in any organisms. Research areas include, but not limited to, large-scale or cross species data integration for the reconstruction of networks and pathways, module and feature analysis of networks and pathways and applications to diseases and other phenotypes, quantitative understanding of the dynamics of regulatory and metabolic networks by using modeling and simulation techniques, and network visualization and tool development. The authors should prepare the manuscript according to the instructions available at the conference website and submit to the session chairs directly (via email) before February 15, 2009.