

SyBBi Paper Reading Class
 Graduate Institute of Systems Biology and Bioinformatics
 Spring term 2007
 Supervised by HC Lee
 Student Groups

Group B 林伯勳 唐紹祖 紀永鑫 吳益盛 許梓亭 白宏益* 范文郎*

B1	Molecular Systems Biology 2006	Principles of microRNA regulation of a human cellular signaling network
B2	BMC Bioinformatics 2005	Classification of real and pseudo microRNA precursors using local structure-sequence features and support vector machine
B3	Current Opinion in Neurobiology 2003	Systems biology in neuroscience: bridging genes to cognition
B4	J Natl Cancer Inst 2007	Critical Review of Published Microarray Studies for Cancer Outcome and Guidelines on Statistical Analysis and Reporting
B5	Proteomics 2006	Lipopolysaccharide-stimulated responses in rat aortic endothelial cells by a systems biology approach

Group C 郭書麟 吳行展 柯懿婷 陳珮欣 曾致遠*

C1	Nature 2006	Cells on Chips
C2	Proc. Natl. Acad. Sci. USA 2005	Surviving heat shock Control strategies for robustness and performance
C3	Nature 2006	Robust Salmonella metabolism limits possibilities for new antimicrobials
C4	Science 2007	Multiple high-throughput analyses monitor the response of E. coli to perturbations

Group D 鍾智明 王思寰 葉記達 康証傑 陳志瀉* 蘇致璋*

D1	Bioinformatics 2007	GAPWM: A Genetic Algorithm Method for Optimizing a Position Weight Matrix
D2	Proc. Natl. Acad. Sci. USA 2006	Colloquium Papers: Genomic analysis of the hierarchical structure of regulatory networks
D3	Current opinion in drug discovery & development 2006	Advances in systems biology: Measurement, modeling and representation
D4	Nucleic Acids Research, 2004	Comparative analysis of complete genomes reveals gene loss, acquisition and acceleration of evolutionary rates in Metazoa, suggests a prevalence of evolution via gene acquisition and indicates that the evolutionary rates in animals tend to be conserved

Group E 侯紹敏 林俊宏 郭嫻茜 李懿瑋 張凱迪 游竣評*

E1	Bioinformatics 2006	Large scale data mining approach for gene-specific standardization of microarray gene expression data
E2	Proc. Natl. Acad. Sci. USA 2006	Fractal small-world human brain functional networks
E3	Nature Biotechnology 2007	An integrated mass spectrometric and computational framework for the analysis of protein interaction networks
E4	Proc. Natl. Acad. Sci. USA 2006	Gene-to-metabolite networks for terpenoid indole alkaloid biosynthesis in Catharanthus roseus cells
E5	Proc. Natl. Acad. Sci. USA 2007	The Human Disease Network

* Students from the Lee Lab.