

SyBBI Paper Reading Class

Graduate Institute of Systems Biology and Bioinformatics

National Central University

Spring term 2007

All classes held on Thursdays

Room 615, Building Science 5

Schedule

3/15 Guest Speaker

3pm – **Dr. Kuan Wang** “Nanomechanics of Intrinsically Disordered Muscle Proteins”

3/22 Student Speakers

2pm – **YS Wu** B1 “Principles of microRNA regulation of a human cellular signaling network”

3pm – **MC Kuo** E1 “Large scale data mining approach for gene-specific standardization of microarray gene expression data”

3/29 Student Speakers

2pm – **CD Yeh** D1 “GAPWM: A Genetic Algorithm Method for Optimizing a Position Weight Matrix”

3pm – **SL Kuo** C1 “Cells on Chips”

4/05 (Spring Vacation)

4/12 Student Speakers

2pm – **JH Lin** E2 “Fractal small-world human brain functional networks”

3pm – **TT Hsu** B2 “Classification of real and pseudo microRNA precursors using local structure-sequence features and support vector machine”

4/19 Guest Speaker & student Speaker

2pm – **Prof. Chu-Fang Lo** “WSSV has successfully annexed a shrimp STAT to enhance the expression of an immediate early gene (iel)”

3pm – **SH Wang** D2 “Colloquium Papers: Genomic analysis of the hierarchical structure of regulatory networks”

4/26 (Midterm Exam Week)

5/03 Student Speakers

2pm – **HC Wu** C2 “Surviving heat shock Control strategies for robustness and performance”

3pm – **YH Chi** B3 “Systems biology in neuroscience: bridging genes to cognition”

5/10 Guest Speaker & student Speaker

2pm – **Dr. Hsinyi Steve Tsang** “Vector Alignment Search Tool (VAST) Automated Structure Comparison Using Special Structural Elements”

3pm – **YW Lee** E3 “An integrated mass spectrometric and computational framework for the analysis of protein interaction networks” \

5/17 Student Speakers

2pm – **CJ Kang** D3 “Advances in systems biology: Measurement, modeling and representation”

3pm – **ST Tang** B4 “Critical Review of Published Microarray Studies for Cancer Outcome and Guidelines on Statistical Analysis and Reporting”

5/24 Guest Speaker & student Speaker

2pm – **Prof. Ruey J. Sung** “Clinical Application of a Simulated Cell Model of the Cardiac Ventricular Myocyte” [[talk](#)]

3pm – **PH Chen** C3 “Robust Salmonella metabolism limits possibilities for new antimicrobials”

5/31 Student Speakers

2pm – **ZM Chung** D4 “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”

3pm – **KD Chang** E4 “Gene-to-metabolite networks for terpenoid indole alkaloid biosynthesis in Catharanthus roseus cells”

6/07 Student Speaker

2pm – **YT Ko** C4 “Multiple high-throughput analyses monitor the response of E. coli to perturbations”

3pm – **BH Lin** B5 “Lipopolysaccharide-stimulated responses in rat aortic endothelial cells by a systems biology approach”

4pm – **SM Huo** E5 “The Human Disease Network”

6/14

6/21

6/28 (Final Exam Week)