		InCoB2013 Program	Thursday, 19 Sept. 2013
9:00-17:30	Registration (Foyer)		

Day 1			InCoB2013 Program				Friday, 20 Sept. 2013		
8:00	Registration (Foyer)								
Venue	Ballrooms A & B								
9:00	Welcome to InCoB2013 Conference Chair: Bairong Shen APBioNet President: Shoba Ranganathan								
9:30	Keynote 1: Fuchu He - TBA Chair: Bairong Shen								
10:15	Plenary lecture 1: Keith Dunker - An IDP-based Swiss-army-knife-like toolkit for signaling diversification Chair: Bairong Shen								
10:40	Break								
11:00	Keynote 2: Wen-Hsiung Li - Assembling a genome using short sequencing reads Chair: Shoba Ranganathan								
11:45	Plenary lecture 2: Luonan Chen - Early diagnosis on complex diseases by dynamical network biomarkers Chair: Christian Schönbach								
12:10	Status and Future of InCoB2013 - Christian Schönbach								
12:35	Lunch Break								
Venue	Ballroom A		Ballroom B		Huashan Room		Xiangshan Room		
13:30 - 15:40	1. Systems Biology Chair: Bairong Shen	13:30 - 15:40	2. Disease Informatics Chair: Luonan Chen	13:30 - 15:40	3. Imaging and Emerging Bioinformatics Applications Chair: Tin Wee Tan	13:30 - 15:30	4. Immunoinformatics Chair: Vladimir Brusic		
13:30	1. Y López, A Patil and K Nakai. Identification of novel motif patterns to decipher the promoter architecture of co-expressed genes in Arabidopsis thaliana.	13:30	1. R Zhang, L Hao, L Wang, M Chen, W Li, M Esteban, J Yu, J Xiao and J Wu. Gene expression analysis of induced pluripotent stem cells from aneuploid chromosomal syndromes.	13:30	1. D Laksameethanasan, R Zhen Tan, GW-L Toh and L-H Loo. cellXpress: a fast and user-friendly software platform for profiling cellular phenotypes	13:30	1. I-H Liu, Y-S Lo and J-M Yang. Genome-wide structural modelling of TCR-pMHC interactions.		
13:50	2. Haijun Gong. Analysis of intercellular signal transduction in the tumor microenvironment.	13:50	2. Y Xiang, J Zhang and K Huang. Mining Tissue-Tissue Gene Co- expression network for tumor microenvironment study and biomarker prediction.	13:50	2. Y Wang, W Goh, L Wong and G Montana. Random forests on Hadoop for genome-wide studies of multivariate neuroimaging phenotypes.	13:50	2. L Guo, C Luo and S Zhu. MHC2SKpan: A novel kernel based approach for pan specific MHC class II peptide binding prediction.		
14:10	3. K Yoshida, K Maeda, H Kusuhara and A Konagaya. Estimation of feasible solution space using Cluster Newton method: application to pharmacokinetic analysis of irinotecan with physiologically-based pharmacokinetic models.	14:10	3. Z Xiang, T Qin, Z Qin and Y He. A genome-wide MeSH-based literature mining system predicts implicit gene-to-gene relationships and networks.		3. P Charoenkwan, E Hwang, RW Cutler, H-C Lee, L-W Ko, H-L Huang and S-Y Ho. HCS-Neurons: Identifying phenotypic changes in multi-neuron images upon drug treatments of high-content screening.	14:10	3. K-C Huang, K-C Yang, H Lin, TT-H Tsao, W-K Lee, S-A Lee and C-Y Kao. Analysis of schizophrenia and hepatocellular carcinoma genetic network with corresponding modularity and pathways: Novel insights to the immune system.		

Venue	Ballroom A		Ballroom B		Huashan Room		Xiangshan Room	
14:30	4. P Chumnanpuen, I Nookaew and J Nielsen. Integrated analysis, transcriptome-lipidome, reveals the effects of INO-level (INO2 and INO4) on lipid metabolism in yeast.	14:30	4. Z Li, Y He, Q Liu, L Wong, CK Kwoh, H Nguyen and J Li. Structural analysis on mutation residues and interfacial water molecules for understanding genetic disease.	14:30	4. R Uttamatanin, P Yuvapoositanon, A Intarapanich, S Kaewkamnerd, R Phuksaritanon, A Assawamakin and S Tongsima. METASEL: A Metaphase selection tool using Gaussian-based classification technique.		4. M Pennisi, A-M Rajput, L Toldo and F Pappalardo. Agent based modeling of Treg-Teff cross regulation in relapsing-remitting multiple sclerosis.	
14:50	5. A Batagov, A Yarmishyn, P Jenjaroenpun, Y Nishida, I Kurochkin and JZ Tan. Role of genomic architecture in the expression dynamics of long noncoding RNAs during differentiation of human neuroblastoma cells.	14:50	5. Y Tang, J Chen, C Luo, A Kaipia and B Shen. Identification of novel microRNA regulatory pathways associated with heterogeneous prostate cancer.	14:50	5. TW Tan, C Xie, M De Silva, K Siong Lim, CPK Patro, SJ Lim, KR Govindarajan, JC Tong, KH Choo, S Ranganathan and AM Khan. Simple re-instantiation of small databases using cloud computing.		5. CTT Su, X Ouyang, J Zheng and C-K Kwoh. Structural analysis of the novel influenza A (H7N9) viral Neuraminidase interactions with the current approved neuraminidase inhibitors Oseltamivir, Zanamivir, and Peramivir in the presence of mutation R289K	
15:10	A. I Tawornsamretkit, S Cheevadhanarak, D Waraho and A Meechai. Rational design for efficient linalool production in synthetic Escherichia coli. (10 min)	15:10	A. G Kumar, E Breen and S Ranganathan. Identification of ovarian cancer associated genes using an integrated approach in a Boolean framework. (10 min)	15:10	A. Y-H Tseng, C-L Tsai, C-C Lin and J-Y Peng. 3D morphological analysis reveals mitochondrial biogenesis and quality control in cell cycle. (10 min)	15:10	6. LR Olsen, UJ Kudahl, O Winther and V Brusic. Literature classification for semi-automated updating of biological knowledgebases.	
15:20	B. F Liu and M Heiner. Snoopy: A Colored Petri Net Tool for Modeling Multiscale Systems Biology. (10 min)	15:20	B. V Phav and A Konagaya. Comparison of computational approaches to estimate longrange chromatin interaction between human breast cancer candidate genes and estrogen receptor alpha proteins. (10 min)	15:20	B. C Yan and Y Zhu. Chemical compounds classification using graph methods. (10 min)			
15:30	C. NN Nguyen, W Vongsangnak, B Shen and HW Leong. Retrofitting function prediction methods to fill gaps in metabolic networks. (10 min)	15:30	C. MP Grover, S Ballouz, KA Mohanasundaram, RA George, C Sherman, TM Crowley and M Wouters. Identification of novel therapeutics for complex diseases from genome-wide association data. (10 min)	15:30	C. S Ranganathan, J Khan, G Garg and M Baker. Functional annotation of the human chromosome 7 "missing" proteins: a bioinformatics approach. (10 min)			
15:40	Break							
16:00-17:00	Poster Session 1 (Foyer): odd							
17:00-18:00	Reception Party (Foyer)		I. O. DCC40 D				Full 20 0 1 2010	
Day 1	InCoB2013 Program Friday, 20 Sept. 2013							

Day 2			InCoB2013 Progran	n			Saturday, 21 Sept. 2013			
8:00	Registration (Foyer)									
Venue	Ballrooms A & B									
9:00	Keynote 3: Philip Payne - Translational Informatics: enabling knowledge-driven healthcare Chair: Bairong Shen									
9:45	Plenary lecture 3: Jürgen Brosius - New parts of existing genes: a double-edged sword Chair: Sissades Tongsima									
10:10	Plenary lecture 4: Xu Dong - Role of DNA methylation in cancers Chair: Shoba Ranganathan									
10:35	Break									
11:00	Keynote 4: Keynote 4: Manyuan Long - New genes as drivers of phenotypic evolution: The implication and challenge to translational medical studies Chair: Tin Wee Tan									
11:45	Plenary lecture 5: Paul Horton Chair: Kenta Nakai	- Advan	ces in predicting protein sub-cellula	r localiza	ation signals					
12:10	APBioNet 2013 Report & AGM - Shoba Ranganathan, Kenta Nakai, Christian Schönbach, Sissades Tongsima, Asif M Khan, Tin Wee Tan									
12:35	Lunch Break									
Venue	Ballroom A		Ballroom B		Huashan Room		Xiangshan Room			
13:30 - 15:40	5. Pathways & Networks Chair: Kenta Nakai	13:30 - 15:40	6. Non-coding RNAs Chair: Jürgen Brosius	13:30 - 15:40	7. Proteins, motifs, ligands Chair: Paul Horton	13:30 - 15:30	8. Sequencing, Sequences, Evolution Chair: Manyuan Long			
13:30	1. D L-K Wong, X-L Li, M Wu, J Zheng and S-K Ng. PLW: Probabilistic Local Walks for detecting protein complexes from protein interaction networks	13:30	1. Xing Tang, Mei Hou, Yang Ding, Zhaohui Li, Lichen Ren and Ge Gao. Systematically profiling and annotating long intergenic non- coding RNAs in human embryonic stem cell	13:30	1. B Shashni, K Sharma, R Singh, K Sakharkar, S Dhillon, Y Nagasaki and M Sakharkar. Coffee component Hydroxyl Hydroquinone (HHQ) as a putative ligand for PPAR gamma and implications in breast cancer.	13:30	Chin Lui Goi, Peter Little and Chao Xie. Cell-type and Transcription factor specific enrichment of transcriptional cofactor motifs in ENCODE ChIP-seq data			
13:50	2. J Li and Z Lu. Pathway- based drug repositioning using causal inference	13:50	2. Y Kremenska, V Nair, P Jenjaroenpun, M Kremenskoy, I Kurochkin and B Joseph. Distinct features of RNA in exosomes produced by human breast cancer cell lines revealed by next- generation sequencing based approach.	13:50	2. M-G Su and TY Lee. Incorporating substrate sequence motifs and spatial amino acid composition to identify kinase-specific phosphorylation sites on protein three-dimensional structures.	13:50	2. S Mitra, K Foerster-Fromme, A Damms-Machado, T Scheurenbrand, S Biskup, DH. Huson and SC. Bischoff. Analysis of the intestinal microbiota using SOLiD 16SrRNA gene sequencing and SOLiD shotgun sequencing.			
14:10	3. C Wu, J-MSchwartz and G Nenadic. PathNER: a tool for systematic identification of biological pathway mentions in the literature	14:10	3. D Kim, HH Shin, J-G Joung, SY Lee and JH Kim. Intra-relation reconstruction from inter relation: miRNA to gene expression.	14:10	3. PV Nguyen, S Srihari and HW Leong. Identifying conserved protein complexes between species by constructing interolog networks.	14:10	3. D Strbenac, N Armstrong and J Yang. Detection and classification of peaks in 5' Cap RNA sequencing data.			

Venue	Ballroom A		Ballroom B		Huashan Room		Xiangshan Room		
14:30	4. M Lee, K Park and D Kim. Interaction network among functional drug groups.	14:30	4. K-W Tsai, W-S Chen, T-W Chen, T-H Yang, L-Y Hu, H-W Pan, S-C Li, M-R Ho, S-Y Yu, Y-T Tu, W-C Lin, TT Wu, C-W Shu and PF Liu. Comodulated behavior and effects of differentially expressed miRNA in colorectal cancer.	14:30	4. K-Y Huang, C-T Lu, NA Bretaña, TY Lee and T-H Chang. ViralPhos: incorporating a recursively statistical method to predict phosphorylation sites on virus proteins.	14:30	4. D Biswal, S Ghatani, J Shylla, R Sahu, N Mullapudi, A Bhattacharya and V Tandon. An integrated pipeline for next-generation sequencing and annotation of the complete mitochondrial genome of the giant intestinal fluke, Fasciolopsis buski (Lankester, 1857) Looss, 1899 (Digenea: Fasciolidae).		
14:50	5. AW-Ti Chiang and M-J Hwang. A computational pipeline for identifying kinetic motifs to aid in the design and improvement of synthetic gene circuits.	14:50	5. Y-J Na and JH Kim. Understanding cooperativity of microRNAs via microRNA association networks.	14:50	5. Liang Jiang, Hua-Zhang Zhu, Yin-Zhen Xu, Yan Zhang, Jia-Zuan Ni and Qiong Liu. Comparative selenoproteome analysis reveals a reduced utilization of selenium in parasitic platyhelminthes.	14:50	5. D Biswal, J Valrie and P Tandon. Age estimation for the genus Cymbidium (Orchidaceae: Epidendroideae) with implementation of fossil data calibration using molecular markers (ITS2 & matK) with a Bayesian relaxed clock implying phylogeographic inference in continuous space.		
15:10	6. PB. Madhamshettiwar, SR Maetschke, MJ. Davis and Mark A. Ragan. RMaNI: Regulatory Module Network Inference Framework.	15:10	6. J-K Rhee, S-Y Shin and B-T Zhang. Construction of microRNA functional families by a mixture model of position weight matrices.	15:10	6. Afiahayati, K Sato and Y Sakakibara. An extended genovo metagenomic assembler by incorporating pairedend information.	15:10	6. J Choi, K-T Kim, JJeon and Y-H Lee. Fungal plant cell wall-degrading enzyme database: a platform for comparative and evolutionary genomics in fungi and oomycetes.		
15:30	A. W Yan, M un, G Hu, J Zhou, J Chen, B Chen and B Shen. Characterization of protein structure and evolution with amino acid network. (10 min)	15:30	A. I Kurochkin and A Batagov. Exosomes secreted by human cells transport largely mRNA fragments that are enriched in the 3'-untranslated regions. (10 min)	15:30	A. Y-S Lo, S-H Huang, C-Y Lin, T-L Lee and J-M Yang. Infer human and zebrafish interactomes through structure protein protein interaction families. (10 min)				
16:00	Break								
16:00-17:00	Poster Session 2 with refreshments and snacks (Foyer): even number posters								
18:00-20:30	Conference Dinner								

Day 3	InCoB2013 Program	Sunday, 22 Sept. 2013
8:00	Registration (Foyer)	
Venue	Ballrooms A & B	
9:00	Keynote 4: Kazuyuki Aihara - Mathematical modeling and its application to personalized medicine for prostate cancer Chair: Jinn-Moon Yang	
9:45	Plenary lecture 6: Zhao Zhongming - A personalized mutation network approachfor detecting putative cancer genes from next-generation sequencing Chair: Chen Luonan	data
10:10	Bioinformatics education session Chair: Shoba Ranganathan	
10:35	Coffee break	
11:00	Plenary lecture 7: Kun Huang - Beyond co-expression: integrating nonlinear correlation with Boolean relationships for biological network inference <i>Chair:</i> Ge Gao	
11:25	Plenary lecture 8: Ruiqiang Li - Bioinformatics development for next-generation sequencing data analysis Chair: Bairong Shen	
11:50	Closing session - Bairong Shen, Shoba Ranganathan, Kenta Nakai, Christian Schönbach - Best paper awards and Poster prizes - APBioNet awards - Announcement of InCoB2014	