	InCoB2013 Program Thursday, 19 Sept. 2013
9:30-18:30	Registration (The First Floor Fover)

Day 1	InCoB2013 Program Friday, 20 Sept. 2			
8:00	Registration (The First Floor Foyer)			
Venue 8:30	Guoda Ballrooms A & B Welcome to InCoB2013			
	Conference Chair: Bairong Shen			
	APBioNet President: Shoba Ranganathan			
9:00	Keynote 1: Yunping Zhu - Efficient labeled and label-free algorithms lay a solid foundation for quantitative			
	proteomics. Chair: Bairong Shen			
9:45	Chair: Bairong Shen  Keynote 2: Wen-Hsiung Li - Assembling a genome using short sequencing reads			
	Chair: Shoba Ranganathan			
10:30	Coffee Break			
11:00	Status and Future of InCoB2013 - Christian Schönb	ach		
11:30-12:30	Poster Session 1 (The Second Floor Foyer): odd nur	nber pos	sters	
12:30	Lunch Break			
Venue	Guoda Ballroom A		Guoda Ballroom B	
13:30 - 15:35	1. Systems Biology Chair: Bairong Shen	13:30 - 15:25	2. Disease Informatics Chair: Christian Schönbach	
13:30	Plenary lecture 1: Keith Dunker - An IDP-based	13:30	Plenary lecture 2: Jürgen Brosius - New parts of	
	Swiss-army-knife-like toolkit for signaling diversification		existing genes: a double-edged sword	
13:50	1. Y López, A Patil and K Nakai. Identification of	13:50	1. R Zhang, L Hao, L Wang, M Chen, W Li, M	
	novel motif patterns to decipher the promoter architecture of co-expressed genes in <i>Arabidopsis</i>		Esteban, J Yu, J Xiao and J Wu. Gene expression analysis of induced pluripotent stem cells from	
	thaliana.		aneuploid chromosomal syndromes.	
14:05	Haijun Gong. Analysis of intercellular signal	14:05	2. Y Xiang, J Zhang and K Huang. Mining Tissue-	
	transduction in the tumor microenvironment.		Tissue Gene Co-expression network for tumor	
			microenvironment study and biomarker prediction.	
14:20	3. K Yoshida, K Maeda, H Kusuhara and A Konagaya.	14:20	3. Z Xiang, T Qin, Z Qin and Y He. A genome-wide	
	Estimation of feasible solution space using Cluster		MeSH-based literature mining system predicts	
	Newton method: application to pharmacokinetic analysis of irinotecan with physiologically-based		implicit gene-to-gene relationships and networks.	
	pharmacokinetic models.			
14:35	4. P Chumnanpuen, I Nookaew and J Nielsen.	14:35	4. Z Li, Y He, Q Liu, L Wong, CK Kwoh, H Nguyen and	
	Integrated		J Li. Structural analysis on mutation residues and interfacial water molecules for understanding	
	analysis, transcriptome-lipidome, reveals the effects of INO-level (INO2 and INO4) on lipid		genetic disease.	
	metabolism in yeast.			
14:50	5. A Batagov, A Yarmishyn, P Jenjaroenpun, Y	14:50	5. Y Tang, J Chen, C Luo, A Kaipia and B Shen.	
	Nishida, I Kurochkin and JZ Tan. Role of genomic architecture in the expression dynamics of long		Identification of novel microRNA regulatory pathways associated with heterogeneous prostate	
	noncoding RNAs during differentiation of human		cancer.	
	neuroblastoma cells.			
15:05	A. I Tawornsamretkit, S Cheevadhanarak, D Waraho	15:05	A. V Phav and A Konagaya. Comparison of	
	and A Meechai. Rational design for efficient linalool production in synthetic Escherichia coli. (10 min)		computational approaches to estimate long-range chromatin interaction between human breast	
	production in Synthetic Escherichia con. (10 mill)		cancer candidate genes and estrogen receptor	
			alpha proteins. (10 min)	
15:15	B. Y-S Lo, S-H Huang, C-Y Lin, T-L Lee and J-M Yang.	15:15	B. MP Grover, S Ballouz, KA Mohanasundaram, RA	
	Infer human and zebrafish interactomes through structure protein protein interaction families. (10		George, C Sherman, TM Crowley and M Wouters.  Identification of novel therapeutics for complex	
	min)		diseases from genome-wide association data. (10	
	,		min)	
15:25	C. S Sriganesh. Evolution and controllability of			
	cancer networks: a Boolean perspective. (10 min)			
15:35	Break			

12:30	Lunch Break			
16:00 - 17:55	3. Imaging and Emerging Bioinformatics Applications Chair: Tin Wee Tan	16:00 - 17:55	4. Immunoinformatics Chair: Vladimir Brusic	
16:00	Plenary lecture 3: Kun Huang - Beyond co- expression: integrating nonlinear correlation with Boolean relationships for biological network inference	16:00	Plenary lecture 4: Luonan Chen - Early diagnosis on complex diseases by dynamical network biomarkers	
16:20	D Laksameethanasan, R Zhen Tan, GW-L Toh and L-H Loo. cellXpress: a fast and user-friendly software platform for profiling cellular phenotypes	16:20	1. I-H Liu, Y-S Lo and J-M Yang. Genome-wide structural modelling of TCR-pMHC interactions.	
16:35	2. Y Wang, W Goh, L Wong and G Montana. Random forests on Hadoop for genome-wide studies of multivariate neuroimaging phenotypes.	16:35	2. L Guo, C Luo and S Zhu. MHC2SKpan: A novel kernel based approach for pan specific MHC class II peptide binding prediction.	
16:50	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.	16:50	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.	
17:05	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.	17:05	4. M Pennisi, A-M Rajput, L Toldo and F Pappalardo. Agent based modeling of Treg-Teff cross regulation in relapsing-remitting multiple sclerosis.	
17:20	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.	17:20	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	
17:35	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)	17:35	6. LR Olsen, UJ Kudahl, O Winther and V Brusic. Literature classification for semi-automated updating of biological knowledgebases.	
17:45	B. C Yan and Y Zhu. Chemical compounds classification using graph methods. (10 min)			
18:00-18:30	Reception Party			
Day 1	InCoB2013 F	Program	Friday, 20 Sept. 2013	

Day 2	InCoB2013 Program Saturday, 21 Sept. 2013			
8:00	Registration (The First Floor Foyer)			
Venue	Guoda Ballrooms A & B			
9:00	Keynote 3: Philip Payne - Translational Informatics: enabling knowledge-driven healthcare  Chair: Bairong Shen			
9:45	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			
10:30	Coffee Break			
11:00	APBioNet 2013 Report & AGM - Shoba Ranganatha	n, Kenta	Nakai, Christian Schönbach, Sissades Tongsima,	
11:30	Poster Session 2 (The Second Floor Foyer): even no	umber p	osters	
12:30	Lunch Break			
Venue	Guoda Ballroom A		Guoda Ballroom B	
13:30 - 15:30	5. Pathways & Networks Chair: Kenta Nakai	13:30 - 15:30	6. Non-coding RNAs Chair: Christian Schönbach	
13:30	Plenary lecture 5: Paul Horton - Advances in predicting protein sub-cellular localization signals	13:30	Plenary lecture 2: Xu Dong - Role of DNA methylation in cancers	
13:50	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	13:50	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	
14:05	2. J Li and Z Lu. Pathway-based drug repositioning using causal inference	14:05	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.	
14:20	3. C Wu, J-MSchwartz and G Nenadic. PathNER: a tool for systematic identification of biological pathway mentions in the literature	14:20	3. D Kim, HH Shin, J-G Joung, SY Lee and JH Kim. Intra-relation reconstruction from inter relation: miRNA to gene expression.	
14:35	4. M Lee, K Park and D Kim. Interaction network among functional drug groups.	14:35	4. K-W Tsai, W-S Chen, T-W Chen, T-H Yang, L-Y F 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. Co-modulated behaviorand effects of differentially expressed miRNA in colorectal cancer.	
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 network	
15:05	6. PB. Madhamshettiwar, SR Maetschke, MJ. Davis and Mark A. Ragan. RMaNI: Regulatory Module Network Inference Framework.	15:05	6. J-K Rhee, S-Y Shin and B-T Zhang. Construction of microRNA functional families by a mixture mode of position weight matrices.	
15:20	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)	15:20	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	Coffee Break			
16:00 - 17:30	7. Proteins, motifs, ligands Chair: Shoba Ranganathan	16:00 - 17:30	8. Sequencing, Sequences, Evolution Chair: Asif Khan	
16:00	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.	16:00	Chin Lui Goi, Peter Little and Chao Xie. Cell-type and Transcription factor specific enrichment of transcriptional cofactor motifs in ENCODE ChIP-seq data	

Venue	Guoda Ballroom A		Guoda Ballroom B
16:15	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.	16:15	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.
16:30	3. PV Nguyen, S Srihari and HW Leong. Identifying conserved protein complexes between species by constructing interolog networks.	16:30	3. D Strbenac, N Armstrong and J Yang. Detection and classification of peaks in 5' Cap RNA sequencing data.
16:45	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.	16:45	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).
17:00	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.	17:00	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.
17:15	6. Afiahayati, K Sato and Y Sakakibara. An extended genovo metagenomic assembler by incorporating paired-end information.	17:15	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.
18:00-20:30	Conference Dinner		
Day 2	InCoB2013 Program		Saturday, 21 Sept. 2013

Day 3	InCoB2013 Program	Sunday, 22 Sept. 2013
8:00	Registration (The First Floor Foyer)	
Venue	Guoda Ballrooms A & B	
9:00	Keynote 5: Kazuyuki Aihara - Mathematical modeling and its application to perprostate cancer  Chair: Jinn-Moon Yang	sonalized medicine for
9:45	Plenary lecture 7: Zhao Zhongming - A personalized mutation network approach cancer genes from next-generation sequencing data	chfor detecting putative
10:10	Bioinformatics education session Chair: Shoba Ranganathan	
10:45	Coffee break	
11:15	Plenary lecture 8: Ruiqiang Li - Bioinformatics development for next-generation	n sequencing data analysis
11:40	Closing session - Bairong Shen, Shoba Ranganathan, Kenta Nakai, Christian S - Best Paper and Poster awards - APBioNet awards - Announcement of InCoB2014	Schönbach