

Limsoon Wong

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Sent: Sunday, September 8, 2013 1:28 AM
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Cc: wongls@comp.nus.edu.sg
Subject: CBL Update -- May to Sept 2013

Hi CBL Members,

I got too busy in the past few months to send updates. Here are the accumulated ones.

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Congrats to Zhizhuo and Suchee on the completion and successful defense of their dissertations.

Sucheendra Kumar Palaniappan, "Probabilistic Verification and Analysis of Biopathway Dynamics". Supervisor: P. S. Thiagarajan. Suchee is now a postdoc with Hiroaki Kitano at the RIKEN Centre for Integrative Medical Sciences.

ZHANG Zhizhuo, "Study of Protein-DNA Interaction Using New Generation Data". Supervisor: Wing-Kin Sing. Zhizhuo will be around for a few more months while he looks for a nice position.

1/
Congrats to Chern Han on marrying Jenny this Sunday. May they live long and happy together!

2/
A dozen papers were published since April.

Peng Chen, Jinyan Li, Limsoon Wong, Hiroyuki Kuwahara, Jianhua Huang, Xin Gao. Accurate prediction of hot spot residues through physicochemical characteristics of amino acid sequences. *Proteins: Structure, Function, and Bioinformatics*, 81(8):1351--1362, August 2013.

Wilson Goh, Marek J. Sergot, Judy Sng, Limsoon Wong. Comparative network-based recovery analysis and proteomic profiling of neurological changes in valproic acid-treated mice. *Journal of Proteome Research*, 12(5):2116--2127, April 2013.

Jesper Jansson, Wing-Kin Sung. Constructing the R^* Consensus Tree of Two Trees in Subcubic Time. *Algorithmica*, 66(2): 329--345, June 2013.

Jesper Jansson, Chuanqi Shen, Wing-Kin Sung. Algorithms for the Majority Rule (+) Consensus Tree and the Frequency Difference Consensus Tree. *Proceedings of 13th International Workshop on Algorithms in Bioinformatics (WABI)*, pages 141-155, September 2013.

Zhengyan Kan, Hancheng Zheng, Xiao Liu, Shuyu Li, Thomas Barber, Zhuolin Gong, Huan Gao, Ke Hao, Melinda D Willard, Jiangchun Xu, Robert Hauptschein, Paul A Rejto, Julio Fernandez, Guan Wang, Qinghui Zhang, Bo Wang, Ronghua Chen, Jian Wang, Nikki P Lee, Wei Zhou, Zhao Lin, Zhiyu Peng, Kang Yi, Shengpei Chen, Lin Li, Xiaomei Fan, Jie Yang, Rui Ye, Jia Ju, Kai Wang, Heather Estrella, Shibing Deng, Ping Wei, Ming Qiu, Isabella H Wulur, Jiangang Liu, Mariam E Ehsani, Chunsheng Zhang, Andrey Loboda, Wing Kin Sung, Amit Aggarwal, Ronnie T Poon, Sheung Tat Fan, James Hardwick, Jun Wang, Christoph Reinhard, Hongyue Dai, Yingrui Li, John M Luk, Mao Mao. Whole genome sequencing identifies recurrent mutations in hepatocellular carcinoma. *Genome Research*, 23(9):1422--1433, September 2013.

Qiangfeng Peter Lau, Mong Li Lee, Wynne Hsu, Tien Yin Wong. Simultaneously Identifying All True Vessels from Segmented Retinal Images. *IEEE Transactions on Biomedical Engineering (TBME)*, 60(7):1851-1858, July 2013.

Yie Hou Lee, Wilson Goh, Choon Keow Ng, Manfred Raida, Limsoon Wong, Qingsong Lin, Urs A. Boelsterli, Maxey Chung. Integrative toxicoproteomics implicates impaired mitochondrial glutathione import as off-target effect of troglitazone. *Journal of Proteome Research*, 12(6):2933--2945, May 2013.

Guimei Liu, Andre Suchitra, Limsoon Wong. A performance study of three disk-based structures for indexing and querying frequent itemsets. *Proceedings of the VLDB Endowment*, 6(7):505--516, May 2013.

Song Ling Poon, See-Tong Pang, John R. McPherson, Willie Yu, Kie Kyon Huang, Peiyong Guan, Wen-Hui Weng, Ee Yan Siew, Yujing Liu, Hong Lee Heng, Soo Ching Chong, Anna Gan, Su Ting Tay, Weng Khong Lim, Ioana Cutcutache, Dachuan Huang, Lian Dee Ler, Maarja-Liisa Nairismägi, Ming Hui Lee, Ying-Hsu Chang, Kai-Jie Yu, Waraporn Chan-on, Bin-Kui Li, Yun-Fei Yuan, Chao-Nan Qian, Kwai-Fong Ng, Ching-Fang Wu, Cheng-Lung Hsu, Ralph M. Bunte, Michael R. Stratton, P. Andrew Futreal, Wing-Kin Sung, Cheng-Keng Chuang, Choon Kiat Ong, Steven G. Rozen, Patrick Tan, Bin Tean Teh. Genome-Wide Mutational Signatures of Aristolochic Acid and Its Application as a Screening Tool. *Sci Transl Med*, 5(197):197ra101, August 2013.

Golnaz Taheri, Mahnaz Habibi, Limsoon Wong, Changiz Eslahchi. Disruption of protein complexes. *Journal of Bioinformatics and Computational Biology*, 11(3):1341008, June 2013.

Hoa Vu, Francis Y. L. Chin, Wing-Kai Hon, Henry C. M. Leung, Kunihiro Sadakane, Ken Wing-Kin Sung, Siu-Ming Yiu. Reconstructing k-Reticulated Phylogenetic Network from a Set of Gene Trees. *Proceedings of 9th International Symposium on Bioinformatics Research and Applications (ISBRA)*, pages 112-124, May 2013.

Limsoon Wong. A dichotomy in the intensional expressive power of nested relational calculi augmented with aggregate functions and a powerset operator. *Proceedings of 32nd ACM Symposium on Principles of Database Systems*, pages 285-295, June 2013.

3/

The following invited talks were given.

Limsoon Wong. The use of context in gene expression and proteomic profile analysis. Invited talk at NUS-ENS Workshop on Novel Genome-Wide Approaches to Decipher Transcriptional and Epigenetic Regulation in Mammalian Cells, Paris, France, 30-31 May 2013.

Limsoon Wong. Protein complex prediction from PPIN. Invited talk at SNU Bioinformatics Workshop and Biofestival 2013, Seoul National University, Seoul, Korea, 23 May 2013.

Limsoon Wong. Protein complex prediction from PPIN. Invited talk at Rockefeller University, New York, USA, 25 June 2013.

Limsoon Wong. Enabling more reproducible gene expression analysis. Invited talk at 13th Annual International Workshop on Bioinformatics and Systems Biology (IBSB2013), Kyoto, Japan, 1 August 2013.

Limsoon Wong. The use of context in gene expression and proteomic profile analysis. Invited master class at 2013 International Summer School on Trends in Computing (SSTiC2013), Tarragona, Spain, 22-26 July 2013.

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The following events were hosted.

CS Seminar: Automated formal analysis of internet routing configurations
Boon Thau Loo, University of Pennsylvania
15 July 2013 @ 10am in Video Conference Room (COM1-02-13)

CS Seminar: Meta-Mesh: Metagenome database and data analysis system
Kang Ning, Qingdao Institute of BioEnergy and BioProcess Technology
29 May 2013 @ 2pm in SR11 (COM1-02-11)

CS Seminar: Network-based identification of dysfunctional gene modules
Sriganesh Srihari, University of Queensland
29 May 2013 @ 10am in Executive Classroom (COM2-04-02)

CS Seminar: Towards cloud sourcing for SMEs: Intermediaries and other remedies
Gottfried Vossen, ERCIS
14 May 2013 @ 2pm in Video Conference Room

5/

Ken, Frank, and I are organizing GIW2013. The call for posters is now open. Please submit! For more info, see <http://www.comp.nus.edu.sg/~giw2013>.

6/

Finally, some job advertisements from some friends.

Bioinformatics postdoc position at Univ of Queensland's IMB. Received from Sriganesh Srihari, 19 August 2013.
Bioinformatician needed at Cancer Science Institute, NUS. Received from Melissa Fullwood, 6 August 2013.
Bioinformatics opportunities at Genome Institute of Singapore, A*STAR. Received from Niranajan Nagarajan, 12 July 2013.
PI needed at Bioinformatics Institute, A*STAR. Received from Vladimir Kuznetsov, 20 June 2013.
Bioinformatics research team at Guangxi University is recruiting. Received from Qingfeng Chen, 24 June 2013.
Bioinformaticists needed at Sime Darby. Received from Chew Fook Tim, 23 June 2013.

Please visit <http://www.comp.nus.edu.sg/~wongls/bp/openings/index.html> for details.

Limsoon