

## Wong Lim Soon

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**Subject:** CBL Update, July-Oct 2012

Hi CBL Members,

Time really flies when one is busy. Our last update was in early July. Here are the things that happened in the last 4 months...

1/ Kevin got married. Ah Fu got married. Congratulations to both of them.

2/ Ah Fu completed his PhD thesis "Embracing noise in bioinformatics" and moved to Japan.

3/ Liu Bing moved to CMU to join Ed Clarke's group.

4/ The following 14 papers got published in the last 4 months.

1. Rajesh Chowdhary, Sin Lam Tan, Giulio Pavesi, Jingjing Jin, Difeng Dong, Sameer K. Mathur, Arthur Burkart, Vipin Narang, Ingrid Glurich, Benjamin A. Raby, Scott T Weiss, Limsoon Wong, Jun S. Liu, Vladimir B. Bajic. **A database for annotated promoters of genes associated with common respiratory and related diseases.** *American Journal of Respiratory Cell and Molecular Biology*, 47(1):112-119, July 2012.
2. Y. Cui, J. Jansson, W. K. Sung. **Polynomial-Time Algorithms for Building a Consensus MUL-Tree.** *Journal of Computational Biology*, 19(9):1073--1088, September 2012.
3. B. Gipson, D. Hsu, L.E. Kavraki, and J.C. Latombe. **Computational models of protein kinematics and dynamics: Beyond simulation.** *Annu. Rev. Anal. Chem*, 5:273--291, July 2012.
4. Wilson Goh, Yie Hou Lee, Zubaidah M. Ramdzan, Maxey Chung, Limsoon Wong, Marek Sergot. **[A network-based maximum link approach towards MS identifies potentially important roles for undetected ARRB1/2 and ACTB in liver cancer progression.](#)** *International Journal of Bioinformatics Research and Applications*, 8(3/4):155--170, August 2012.

5. Julian Lai, Chuan Hock Koh, Monika Tjota, Laurent Pieuchot, Vignesh Raman, Karthik Balakrishna Chandrababu, Daiwen Yang, Limsoon Wong, Gregory Jedd. **Intrinsically disordered proteins aggregate at fungal cell-to-cell channels and regulate intercellular connectivity**. *Proceedings of the National Academy of Sciences of the United States of America*, 109(39):15781-15786, September 2012.
6. Zhenhua Li, Ying He, Longbing Cao, Limsoon Wong, Jinyan Li. [Conservation of water molecules in protein binding interfaces](#). *International Journal of Bioinformatics Research and Applications*, 8(3/4):228--244, August 2012.
7. J. Q. Lim, C. Tennakoon, G. Li, E. Wong, Y. Ruan, C. L. Wei, W. K. Sung. **BatMeth: Improved mapper for bisulfite sequencing reads on DNA methylation**. *Genome Biology*, 13(10):R82, October 2012.
8. Guimei Liu, Haojun Zhang, Limsoon Wong. [Finding minimum representative pattern sets](#). *Proceedings of 18th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD)*, pages 51--59, Beijing, China, August 2012.
9. Guimei Liu, Andre Suchitra, Haojun Zhang, Mengling Feng, See-Kiong Ng, Limsoon Wong. [AssocExplorer: An association rule visualization system for exploratory data analysis](#). *Proceedings of 18th ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD)*, pages 1536--1539, Beijing, China, August 2012.
10. Sucheendra K. Palaniappan, S. Akshay, Bing Liu, Blaise Genest, P. S. Thiagarajan. **A Hybrid Factored Frontier Algorithm for Dynamic Bayesian Networks with a Biopathway Application**. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, 9(5):1352--1365, September 2012.
11. Sriganesh Srihari, Hon Wai Leong. **Employing functional interactions for characterization and detection of sparse complexes from yeast PPI networks**. *International Journal of Bioinformatics Research and Applications*, 8(3/4):286--304, September 2012.
12. C. Tennakoon, R. W. Purbojati, W. K. Sung. **BatMis: A fast algorithm for k-mismatch mapping**. *Bioinformatics*, 28(16):2122--2128, August 2012.
13. Min Wu, Xiaoli Li, Chee-Keong Kwoh, See-Kiong Ng, Limsoon Wong. **Discovery of Protein Complexes with Core-Attachment Structures from TAP Data**. *Journal of Computational Biology*, 19(9):1027--1042, September 2012.
14. F. Yao, P. N. Ariyaratne, A. M. Hillmer, W. H. Lee, G. Li, A. S. Teo, X. Y. Woo, Z. Zhang, J. P. Chen, W. T. Poh, K. F. Zawack, C. S. Chan, S. T. Leong, S. C. Neo, P. S. Choi, S. Gao, N. Nagarajan, H. Thoreau, A. Shahab, X. Ruan, V. Cacheux-Rataboul, C. L. Wei, G. Bourque, W. K. Sung, E. T. Liu, Y. Ruan. **Long Span DNA Paired-End-Tag (DNA-PET) Sequencing Strategy for the Interrogation of Genomic Structural Mutations and Fusion-Point-Guided Reconstruction of Amplicons**. *PLoS One*, 7(9):e46152, September 2012.

5/ The following seminars were organized.

1. [CS Seminar: Navigating Oceans of Data](#)  
David Maier, Portland State University  
21 September 2012 @ 2pm in Exec classroom (COM2, Level 4)
2. [CS Seminar: Cell Population Response Arising From Disordered Single Cell Dynamics](#)  
Kumar Selvarajoo, Keio University  
7 August 2012 @ 2pm in Exec Classroom (COM2, Level 4)
3. [CS Seminar: Meta-Genomics Assembly and Binning](#)  
Francis Chin, University of Hong Kong  
9 July 2012 @ 11am in SR7 (COM1-02-07)

6/ The following invited talks and tutorials were given.

1. Sriganesh Srihari and Hon Wai Leong. **Computational Methods for Protein Complex Prediction from Protein Interaction Networks**. Tutorial *given at International Conference on Bioinformatics, (InCoB-2012)*, Bangkok, Thailand, October 2012.
2. Limsoon Wong. **Logic in computational biology**. *Invited talk at Joint Workshop of IMS and IMI on Mathematics for Industry: Biological and Climatic Prospects*, Institute for Mathematical Sciences, National University of Singapore, 3 September 2012.
3. Limsoon Wong. **Living with noise**. *Invited talk at SinFra 2012*, UPMC, Paris, 15 October 2012.

If I have missed out anything, please let me know.

Limsoon