

## Wong Lim Soon

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**Cc:** wongls@comp.nus.edu.sg  
**Subject:** CBL update -- March/April 2009

Dear CBL Members,

Here is an update on CBL for March & April 2009.

1/

Congratulations to Vipin Narang and Anshul Nigham for successfully defending their PhD theses and to Feng Mengling for submitting his PhD thesis:

Vipin Narang, "Gene Regulatory Element Prediction with Bayesian Networks", PhD 2009, National University of Singapore. (Supervisor: Wing-Kin Sung & Ankush Mittal) Email: narangv@gis.a-star.edu.sg / First job: Research Scientist at Genome Institute of Singapore.

Anshul Nigham, "Algorithms for Analyzing Protein Conformational Flexibility with Noisy Data, PhD 2009, Singapore-MIT Alliance. (Supervisor: David Hsu & Tomas Lozano-Perez) Email: nigham@gmail.com / First job: Software Developer at IBM

Mengling Feng, "Frequent Pattern Space Maintenance: Theories and Algorithms", PhD thesis submitted 2009, Nanyang Technological University. (Supervisors: Limsoon Wong, Yap Peng Tan, & Jinyan Li) Email: mornin@gmail.com / First job: Research Fellow at Institute for Infocomm Research (Knowledge Discovery Dept) with See-Kiong Ng

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These two months have been very productive for the lab in terms of publications. I think at least 10 papers were published and at least 4 were in premier venues...

Wen-Son Hsieh, Ross Soo, Bee-Keow Peh, Thomas Loh, Difeng Dong, Donny Soh, Limsoon Wong, Simon Green, Judy Chiao, Chun-Ying Cui, Yoke-Fong Lai, Soo-Chin Lee, Benjamin Mow, Richie Soong, Manuel Salto-Tellez, Boon-Cher Goh. "Pharmacodynamic Effects of Seliciclib, an Orally Administered Cell Cycle Modulator, in Undifferentiated Nasopharyngeal Cancer". Clinical Cancer Research, 15(4):1435--1442, February 2009.

Wing-Kai Hon, Kunihiro Sadakane, Wing-Kin Sung. "Breaking a Time-and-Space Barrier in Constructing Full-Text Indices". SIAM J. Comput., 38(6):2162--2178, February 2009.

Hon Nian Chua, Willy Hugo, Guimei Liu, Xiaoli Li, Limsoon Wong, See-Kiong Ng. "A Probabilistic Graph-Theoretic Approach to Integrate Multiple Predictions for the Protein-Protein Subnetwork Prediction Challenge". Annals of New York Academy of Sciences, 1158:224-233, March 2009.

W.H. Lee, V. Narang, H. Xu, F. Lin, K.C. Chin, W.K. Sung. "DREAM2 Challenge: Integrated Multi-Array Supervised Learning Algorithm for BCL6 Transcriptional Targets Prediction". Annals of New York Academy of Sciences, 1158:196-204, March 2009.

Jin Chen, Liping Ji, Wynne Hsu, Kian-Lee Tan, Seung Y. Rhee. "Exploiting Domain Knowledge to Improve Biological Significance of Biclusters with Key Missing Genes". Proceedings of 25th International Conference on Data Engineering (ICDE 2009), pages 1219--1222, Shanghai, China, March 2009.

Xin Xu, Ying Lu, Kian-Lee Tan, Anthony K. H. Tung. "Finding Time-Lagged 3D Clusters". Proceedings of 25th International Conference on Data Engineering (ICDE 2009), pages 445--456, Shanghai, China, March 2009.

Xiuju Fu, Sonja Lim, Lipo Wang, Gary Lee, Stefan Ma, Limsoon Wong, Gaoxi Xiao. "Key Node Selection for Containing Infectious Disease Spread Using Particle Swarm Optimization". Proceedings of IEEE Swarm Intelligence Symposium 2009, pages 109--113, Nashville, USA, 29 March-2 April 2009.

V.B. Vega, E. Cheung, N. Palanisamy, W.K. Sung. "Inherent Signals in Sequencing-Based Chromatin-Immunoprecipitation Control Libraries". PLoS ONE, 4(4):e5241, April 2009.

Wing-Kin Sung, "The 2-interval Pattern Matching Problems and its Application to ncRNA Scanning", Proc. 1st Intl Conf on Bioinformatics and Computational Biology (BICOB2009), pages 79-89, New Orleans, USA, 8-10 April 2009. (Invited keynote)

Difeng Dong, Chun-Ying Cui, Benjamin Mow, Limsoon Wong. "Deciphering Drug Action and Escape Pathways: An Example on Nasopharyngeal Carcinoma", Proc. 1st Intl Conf on Bioinformatics and Computational Biology (BICOB2009), pages 199-210, New Orleans, USA, 8-10 April 2009.

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We also held many talks in these two months:

CS Seminar: Shaping Cells and Tissues by Force and Rigidity Michael P. Sheetz, Dept of Biological Science, NUS  
3 April 2009 @ 11am in Video Conference Room (COM1-02-13)

CS Seminar: Tracing the evolution of protein interaction networks:  
Phylogeny-guided interaction mapping in seven eukaryotes Jerzy Tiuryn, University of Warsaw  
31 March 2009 @ 2pm in SR5 (COM1/201)

Using M-Tree and Graph Model for Clustering and Similarity Search in Protein Structure Databases Do Phuc, University of Information Technology, Vietnam  
6 March 2009 @ 5pm in MR1 (COM1 3rd Floor)

Bioinformatics at College of Technology, Vietnam National University Hanoi Le Sy Vinh, ColTech-VNU, Vietnam

6 March 2009 @ 5pm in MR1 (COM1 3rd Floor)

CS Seminar: Double Water Exclusion---A Hypothesis Refining the O-Ring Theory for Hot Spots at Protein Interfaces Jinyan Li, NTU

4 March 2009 @ 2pm in SR7 (COM1 #02-07)

And we also gave quite a few invited talks ourselves...

Hon Wai Leong. Overview of Bioinformatics Research in NUS Computer Science Dept. Invited talk at 2nd Singapore-Hungary Joint Symposium, Institute of Microelectronics, Singapore, 23-24 April 2009.

Wing-Kin Sung, The 2-interval Pattern Matching Problems and its Application to ncRNA Scanning, Invited keynote at 1st Intl Conf on Bioinformatics and Computational Biology (BICOB2009), New Orleans, USA, 8-10 April 2009.

Limsoon Wong. Identifying Protein Complexes from Protein Interactome Maps. Invited talk at ASI Symposium on Bioinformatics and Data Mining, Hong Kong Baptist University, 26-27 February 2009.

Limsoon Wong. Identifying Protein Complexes from Protein Interactome Maps. Invited talk at International Conference on Open Source for Computer Aided Drug Discovery (OSCADD 2009), IMTECH, Chandigarh, India, 22-26 March 2009.

Limsoon Wong. Topology of PPI Networks: Applications and Questions. Invited talk at Barbados Workshop on Biological and Computational Analysis of Protein-Protein Interaction Networks, Bellairs Research Institute, Barbados, 19-25 April 2009.

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On the 8th of June, we will hold a joint workshop with Faculty of Science and the Brenner Centre. More details to follow soon. But please mark your diaries!

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Dr. Seiichi Mori of the Cancer Science Institute Singapore is looking for a postdoc to join his team. Please see url below for more info:

<http://www.comp.nus.edu.sg/~wongls/bp/openings/mori-mar09.pdf>

Regards,  
Limsoon