

## Wong Lim Soon

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**From:** Wong Lim Soon [limsoon@nus.edu.sg]  
**Sent:** Monday, May 24, 2010 11:37 AM  
**To:** David Hsu Xu Ye (SoC); Wynne Hsu (SoC); 'leeml@comp.nus.edu.sg'; leonghw@comp.nus.edu.sg; Ooi Beng Chin (SoC); ksung@comp.nus.edu.sg; Tan Kian Lee (SoC); 'thiagu@comp.nus.edu.sg'; atung@comp.nus.edu.sg; 'Lisa Tucker-Kellogg'; 'liugm@comp.nus.edu.sg'; 'chongket@comp.nus.edu.sg'; tanhuiyi@comp.nus.edu.sg; 'melvin@comp.nus.edu.sg'; 'yenan@comp.nus.edu.sg'; 'nghoongk@comp.nus.edu.sg'; 'srigsri@comp.nus.edu.sg'; 'ben.gyori@gmail.com'; 'xxqqxiao@gmail.com'; Sucheendra Kumar Palaniappan; Shi Yuan; th.chiang@gmail.com; Ooi Nick Sern, Brandon; 'liubing@comp.nus.edu.sg'; Gireedhar Venkatachalam; Joshua Chin Yen Song; 'g0404510@comp.nus.edu.sg'; Ko Li Ling; kohchuanhock@gmail.com; 'dongdife@comp.nus.edu.sg'; Low Hong Sang; Ngo Thanh Son; 'bowenli37@hotmail.com'; Chua Gek Huey; Fan Mengyuan; fayue1015@gmail.com; Yong Chern Han; 'jin-jing@comp.nus.edu.sg'; 'faraaz\_yusufi@bti.a-star.edu.sg'; Varghese Simi Mundaplackal; 'g0801981@comp.nus.edu.sg'; 'dcszheng@nus.edu.sg'; 'hoang@comp.nus.edu.sg'; Edward Wijaya; 'hugowill@comp.nus.edu.sg'; drcyber@gmail.com; Wei Xueliang; zhizhuo@comp.nus.edu.sg; 'Yimin Wang'  
**Cc:** wongls@comp.nus.edu.sg  
**Subject:** CBL Update - May 2010

Dear All,

Here is the Comp Bio Lab Update for this month.

0/ We say good bye to Dr Lisa Tucker-Kellogg. Lisa has been with us in the last few years as a Lee Kuan Yew Postdoctoral Fellow. She is joining the NUS Research Centre of Excellence in Mechanobiology. Lisa is also looking for assistants (with good programming skill) to join her at the RCE.

1/ Congratulations to Charlie Lee, who has submitted his PhD dissertation under the supervision of Dr Ken Sung. Charlie's dissertation is on "Bioinformatics applications for virology research". He has been at the Genome Institute of Singapore in the past few years while working on his PhD.

(Is there anyone else who has submitted or will be submitting PhD thesis?)

2/ The second comp bio lab (aka algorithms lab) has just moved to a bigger room. I haven't visited the new space yet. But I expect we will have a little more space for new students that will join us next semester.

3/ The following six papers got published recently:

1. Rajesh Chowdhary, Vladimir B. Bajic, Difeng Dong, Limsoon Wong, Jun S. Liu. **Genome-wide analysis of regions similar to promoters of histone genes.** *BMC Systems Biology*, 4(Suppl 1):S4, May 2010.
2. Wah Heng Lee, Chee Wee Koh, Yang Sun Chan, Pauline Poh Kim Aw, Kuan Hon Loh, Bing Ling Han, Pei Ling Thien, Geraldine Yi Wen Nai, Martin Hibberd, Christopher Wong, Wing-Kin Sung. **Large-Scale Evolutionary Surveillance of the 2009 H1N1 Influenza A Virus Using Resequencing Arrays.** *Nucleic Acids Research*, 38(9):e1111, May 2010.
3. T. Nandi, C. Ong, A. P. Singh, J. Boddey, T. Atkins, M. Sarkar-Tyson, A. E. Essex-Lopresti, H. H. Chua, T. Pearson, J. F. Kreisberg, C. Nilsson, P. Ariyaratne, C. Ronning, L. Losada, Y. Ruan, W. K. Sung, D. Woods, R. W. Titball, I.

Beacham, I. Peak, P. Keim, W. C. Nierman, P. Tan. **A genomic survey of positive selection in *Burkholderia pseudomallei* provides insights into the evolution of accidental virulence.** *PLoS Pathog*, 6(4):41000845, April 2010.

4. V. Narang, A. Mittal, W. K. Sung. **Localized Motif Discovery in Gene Regulatory Sequences.** *Bioinformatics*, 26(9):1152--1159, May 2010.
5. Donglai Sheng, Dianbo Qu, Ken Hon Hung Kwok, Seok Shin Ng, Adrian Yin Ming Lim, Charlie Wah Heng Lee, Wing Kin Sung, Eng King Tan, Lufkin Thomas, Suresh Jesuthasan, Mathavan Sinnakaruppan, Jianjun Liu. **Deletion of the WD40 domain of LRRK2 in zebrafish causes Parkinsonism-like loss of neurons and locomotive defect.** *PLoS Genetics*, 6(4):e1000914, April 2010.
6. H. Xu, L. Handoko, X. Wei, C. Ye, J. Sheng, C. L. Wei, F. Lin, W. K. Sung. **A Signal-Noise Model for Significance Analysis of CHIP-seq with Negative Control.** *Bioinformatics*, 26(9):1199--1204, May 2010.

4/ Earlier this month, we had the guest seminar by Ardian:

[CS Seminar: CP-Summary, a concise representation for browsing frequent itemsets](#)

Ardian Kristanto Poernomo, Nanyang Technological University, Singapore  
5 May 2010 @ 2pm in MR4 (COM1-01-23)

Next month, we have the following two seminars arranged that I hope you will attend:

[CS Seminar: Algorithms for Reconstructing the Structure and Evolution of Microbial Genomes](#)

Niranjan Nagarajan, Genome Institute of Singapore  
2 June 2010 @ 2pm in SR9 (COM1/209)

[CS Seminar: Learning graphical models: Large-deviation analysis and applications](#)

Vincent Tan, MIT  
8 June @ 2pm in SR7 (COM1, Level 2, Room 7)

I think that is about it for this month. If I have left anything out, please let me know!

Regards,

Limsoon