APPENDIX

PUBLICATIONS BY AUTHOR

Journal papers

1. Charoenkwan, P., **Shoombuatong, W**., Lee, H-C., Chaijaruwanicha, J., Huang, H.-L., S-Y, Ho. "SCMCRYS: Predicting protein crystallization using an ensemble scoring card method with estimating the propensity scores of *p*-collocated amino acid pairs", PlosOne. (Accepted)
2. **Shoombuatong, W**., Mekha, P., Waiyamai, K., Cheevadhanarak, S., Chaijaruwanicha, J. "Prediction of Human Leukocyte Antigen Gene Using k-Nearest Neighbor Classifier Based on Spectrum Kernel, ScienceAsia, 39: 42-49, 2013.
3. **Shoombuatong, W**., Hongjaiseec, S., Barind, F., Chaijaruwanicha, J., Samleerat, T. "HIV-1 CRF01_AE Coreceptor Usage Prediction using Kernel Methods based Logistic Model Trees", Computers in Biology and Medicine, 42 885–889, 2012.
4. **Shoombuatong, W.**; Traisathit, P.; Prasitwattanaseree, S.; Tayapiwatana, C.; Cutler, R.; Chaijaruwanich, J. "Prediction of disulphide bonding state of cysteines in proteins using conditional random fields", Int. J. Data Mining and Bioinformatics, 5 (4) 449-464 ,2011.

International conference paper.

1. **Shoombuatong, W**., Charoenkwan, P., Huang, H.-L., Lee, H-C., Chaijaruwanicha, J., S-Y, Ho. "Predicting Protein Crystallization Using a Simple Scoring Card Method", 2013 IEEE Symposium on Computational Intelligence in

Bioinformatics and Computational Biology (IEEE CIBCB 2013), April 2013. (Oral presentation)

National conference papers.

1. Hongjaiseec, S., **Shoombuatong, W**., Barind, F., Chaijaruwanicha, J., Braibant, M., Barin, F., Ngo-Giang, Huong., Sirirungsi, W., Samleerat, T. "Development of phenotypic and genotypic assay for determination of HIV-1 coreceptor usage in Thai clinical sample": NRU SUMMIT II, 7-8 May 2013 @ Queen Sirikit National Convention Center, Bangkok, Thailand. (Oral presentation)
2. Hongjaiseec, S., **Shoombuatong, W**., Chaijaruwanicha, J., Samleerat, T. "HIV-1 CRF01_AE Coreceptor Usage Prediction using Kernel Methods based Logistic Model Trees", RGJ Seminar Series LXXXIX Molecular mechanisms and technology developments in biomedical researches, August 2012. (Oral presentation)
3. Mekha, P., **Shoombuatong, W**., Chaijaruwanich, J., "Spectrum Kernel Approach for Human Leukocyte Antigen Genes Classification", 15th Annual Symposium on Computational Science and Engineering (ANSCSE 15), Bangkok University, Thailand, March to April, 2011.(Best paper award) (Oral presentation)
4. **Shoombuatong, W.**; Traisathit, P.; Prasitwattanaseree, S.; Tayapiwatana, C.; Cutler, R.; Chaijaruwanich.; Nimmanpipug, P. J."Disulfide Bond Formation Prediction Using Graphical Model", PERCH Congress VI, Jomtien Palm Beach Resort Pattaya, Thailand, May 3-6, 2009. (Oral presentation)
5. **Shoombuatong, W.**; Nimmanpipug, P.; Traisathit, P.; Prasitwattanaseree, S.; Tayapiwatana, C.; Cutler, R.; Chaijaruwanich, J. "Disulfide Bond Formation

Prediction Using Hidden Markov Models", The 12th National Computer Science and Engineering Conference (NCSEC2008), Long Beach Garden, Thailand, November 20-21, 2008. (Oral presentation)

6. **Shoombuatong, W.**; Nimmanpipug, P.; Traisathit, P.; Prasitwattanaseree, S.; Tayapiwatana, C.; Cutler, R.; Chaijaruwanich, J. "Disulfide Bond Formation Prediction Using Dirichlet Distribution and Hidden Markov Models", 12th Annual Symposium on Computational Science and Engineering (ANSCSE 12), Ubon Rajathanee University, Ubon Rajathanee, Thailand, March 27-29, 2008. (Oral presentation)

CURRICULUM VITAE

Name Mr. Watshara Shoombuatong

Date of Birth 9th August1984

Education

1. High School, The Prince Royal's College, Chiang Mai, Thailand (1998-2003)
2. B.Sc. (Mathematics), 2nd class hons, Chiang Mai University, Chiang Mai, Thailand (2004-2007)
3. M.Sc. (Bioinformatics), Chiang Mai University Chiang Mai, Thailand (2007-2009)

Scholarship

1. The Science Achievement Scholarship of Thailand (SAST), (2004-2007)
2. Center for Innovation in Chemistry: Postgraduate Education and Research Program in Chemistry (PERCH-CIC), (2007-2009)
3. The Royal Golden Jubilee Ph.D. Program (RGJ), (2009-2013)

Experience Exchange student at IC Lab.-Intelligent Computing Laboratory (National Chiao Tung University), Hsinchu, Taiwan, (November, 2012- April, 2013)