

101 年 9&10 月 通過 學術審查

93學年度碩士入學，94 學年度上學期直升(博七)

Journal Paper

1. **Yu-Tin Chen**, Chuan-Yi Tang, Wei-Chung Shia, Hwei-Ling Peng, Fang-Rong Hsu, Chuan-Fu Ken, Yu-Ming Tsao, Chang-Hua Chen, Chun-Eng Liu, Ming-Feng Hsieh, Huang-Chi Chen and Tien-Hsiung Ku. Whole genome sequencing of *Morganella morganii*KT and identification of pathogenicity-related genes. *BMC Genomics*(2012) Volume 13 Supplement 8, S4. [SCI:5yrs**Impact Factor(2011)=4.328**, Rank: 26/157(Biotech. & app. microbiology), 34/157 (Genetics & heredity)]
2. Li-Fang Chou, **Yu-Tin Chen**, Chia-Wei Lu, Yi-Ching Ko, Chuan-Yi Tang, Ming-Jeng Pan, Ya-Chung Tian, Cheng-Hsun Chiu, Cheng-Chieh Hung, Chih-Wei Yang. Sequence of *Leptospira santarosaiserovar* Sherman genome and prediction of virulence-associated genes. *GENE*, accepted. [SCI:5yrs**Impact Factor(2011)=2.443**]
3. Y.-R. Lin, **Y.-T. Chen**, S.-N. Shu, C.-Y. Tang and W.-P. Hsieh. CNHap: Copy Number Haplotype Inference With Hidden Markov Model And Localized Haplotype Clustering.(Manuscript under revision by *BMC Bioinformatics*) [SCI:5yrs**Impact Factor(2011)=3.493**]

Poster

1. **Y.-T.Chen**, S.-N. Shu, C.-Y. Tang, and W.-P. Hsieh. 2009, Parallel genotype calling using neighboring loci for Affymetrix SNP 6.0 platform. **ASHG 2009**, Honolulu, USA

Manuscript in Preparation for Journals

1. **Y.-T. Chen**, J.-J. Lai, C.-Y. Tang and W.-P. Hsieh. Individual sequences mapping and visualization with human SNPs. (Manuscript in preparation for *Nucleic Acids Res.* Web Issue)
2. C.-H. Chen, **Y.-T. Chen**, C.-Y. Tang, and C.-C. Huang. Whole genome sequencing of multi-drug resistant *Acinetobacter baumannii*CH 1-43.(Manuscript in preparation)
3. **Yu-Tin Chen**, Hwei-Ling Peng, Chuan-Yi Tang and Tien-Hsiung Ku. Whole genome sequencing of *Morganella morganii* PC and identification of genomic island ICE $Mm1$ (Manuscript in preparation)

Publications (2001-2002):

Journal Paper

1. Huang YH, **Chen YT**, Lai JJ, Yang ST, Yang UC. PALS db: Putative Alternative Splicing database. **Nucleic Acids Res.**2002 Jan 1;30(1):186-90.[SCI:5yrs**Impact Factor(2011)=7.417**, Rank: 26/289]

Poster

1. **Y.-T. Chen**, Y.-C. Chang, Y.-H. Huang and U.-C. Yang. 2001. ReView:A viewer to display the relation of protein-coding region and repetitive patterns.**In Genome Informatics**, 12:460-461, **GIW 2001**, Tokyo, Japan.

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Journal Paper

1. **Chih-Hung Chang**, Hsiang-Iu Wang, Hsiang-Chia Lu, Cheng-En Chen, Hong-Hwa Chen, Hsin-Hung Yeh and Chuan Yi Tang, “An efficient RNA interference screening strategy for gene functional analysis,” BMC Genomics 2012, 13:491 doi:10.1186/1471-2164-13-491 (SCI 5-Year **Impact Factor** : 4.328, **Rank** 26/158 ~ 16.45%.)
2. Che-Lun Hung, Chihan Lee, Chun-Yuan Lin, **Chih-Hung Chang**, Yeh-Ching Chung and Chuan Yi Tang, “Feature amplified voting algorithm for functional analysis of protein superfamily,” BMC Genomics 2010, 11(Suppl 3):S14 doi:10.1186/1471-2164-11-S3-S14 (SCI 5-Year **Impact Factor** : 4.328, **Rank** 26/158 ~ 16.45%.)
3. Hsiang-Iu Wang, **Chih-Hung Chang**, Po-Heng Lin, Hui-Chuan Fu, Chuanyi Tang and Hsin-Hung Yeh, “Motif-based Phylogenetic Analysis: A Test Study on the Multipartite Virus, Banana bunchy top virus,” (Manuscript is prepared to submit to PLoS One.)

Poster

1. **Chih-Hung Chang**, Hsiang-Iu Wang, Hsiang-Chia Lu, Hong-Hwa Chen, Chuan Yi Tang and Hsin-Hung Yeh, “A hierarchical screening strategy for gene functional analysis using RNA interference,” 16th Annual International Conference on Research in Computational Molecular Biology (RECOMB 2012).

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96學年度碩士入學，97學年度直升博士（博五）

Journal Papers

1. **Yuan-Po Cheng**, Chia-Yi Wu, Yao-Jen Tang, and Ming-Jer Tsai, "Retrieval-Guaranteed Location-Aware Information Brokerage Scheme in 3D Wireless Ad Hoc Networks," *IEEE Transactions on Computers*, to appear, accepted at December, 2011.
2. **Yuan-Po Cheng** and Ming-Jer Tsai, "VirtualGFG: A Virtual-Coordinate-Based Greedy-Face-Greedy Routing Protocol with Guaranteed Delivery and Lightweight Maintenance Costs in Wireless Sensor Networks", submitted to *IEEE/ACM Transactions on Networking*.

Conference Paper

1. Ming-Jer Tsai, Fang-Ru Wang, Hong-Yen Yang, and **Yuan-Po Cheng**, "VirtualFace: An Algorithm to Guarantee Packet Delivery of Virtual-Coordinate-Based Routing Protocols in Wireless Sensor Networks," *IEEE INFOCOM*, pp. 1728—1736, 2009.
2. **Yuan-Po Cheng**, Kai-Hong Wang, and Ming-Jer Tsai, "Face Routing with Guaranteed Packet Delivery and Low Path Stretch on Non-Planar Graph", submitted to *IEEE INFOCOM*, 2013.

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95學年度入學 (博七)

Journal Papers:

1. **H.-C. Kuo**, L.-C. Wu, H.-T. Huang, S.-T. Hsu, and Y.-L. Lin, "A Low-Power High-Performance H.264/AVC Intra-Frame Encoder for 1080pHD Video," *IEEE Trans. Very Large Scale Integrated Syst. (TVLSI)*, vol. 19, no. 6, pp. 925-938, June 2011.
 - **5-Year Impact Factor 1.347**
2. **H.-C. Kuo** and Y.-L. Lin, "A Hybrid Algorithm for Effective Lossless Compression of Video Display Frames," *IEEE Trans. on Multimedia*, vol. 14, no. 3, pp. 500-509, June 2012.
 - **5-Year Impact Factor 2.164**
 - **Rank 7th out of 103 (7%) in Category: COMPUTER SCIENCE, SOFTWARE ENGINEERING**

Conference Papers:

1. C. -Y. Kao, **H.-C. Kuo**, and Y.-L. Lin, "High Performance Fractional Motion Estimation and Mode Decision for H.264/AVC," *IEEE Int. Conf. Multimedia. Expo., (ICME)*, Toronto, Canada, 2006, pp. 1241-1244.
 - **10 Citations (Google Scholar)**
2. Y.-C. Kao, **H.-C. Kuo**, Y.-T. Lin, C.-W. Hou, Y.-H. Li, H.-T. Huang, and Y.-L. Lin, "A High-Performance VLSI Architecture for Intra Prediction and Mode Decision in H. 264/AVC Video Encoding," *IEEE Int. Conf. Asia Pacific Conf. Circuit Syst. (APCCAS)*, Singapore, 2006, pp. 562-565.
 - **12 Citations (Google Scholar)**
3. **H.-C. Kuo** and Y.-L. Lin, "An H. 264/AVC Full-Mode Intra-Frame Encoder for 1080HD Video," *IEEE Int. Conf. Multimedia Expo. (ICME)*, Hannover, Germany, 2008, pp. 1037-1040.
 - **19 Citations (Google Scholar)**

4. **H.-C. Kuo**, J.-W. Chen, and Y.-L. Lin, "A High-Performance Low-Power H.264/AVC Video Decoder Accelerator for Embedded Systems," *ACM/IEEE/IFIP Workshop Embedded Syst. Real-time Multimedia (ESTIMedia)*, Grenoble, France, 2009, pp. 1-7.
5. H.-T. Yang, J.-W. Chen, **H.-C. Kuo**, and Y.-L. Lin, "An Effective Dictionary-based Display Frame Compressor," *ACM/IEEE/IFIP Workshop Embedded Syst. Real-time Multimedia (ESTIMedia)*, Grenoble, France, 2009, pp. 28-34.
6. **H.-C. Kuo**, W.-C. Hung and Y.-L. Lin, "Applications of Low Power Technologies on Video Codec VLSI Designs," *IEEE Int. Conf. Green Circuit Syst. (ICGCS)*, Shanghai, China, 2010, pp. 196-200.
7. **H.-C. Kuo** and Y.-L. Lin, "A Simple and Effective Lossless Compression Algorithm for Video Display Frames," *IEEE Int. Conf. Multimedia Expo. (ICME)*, Barcelona, Spain, 2011, pp. 1-6.
 - **Nomination of Best Paper Award (22 out of 744 = 3%)**
 - **Acceptance rate 30%**

Books:

1. Y.-L. S. Lin, C.-Y. Kao, **H.-C. Kuo**, and C.-W. Chen, "VLSI Design for Video Coding: H. 264/AVC Encoding from Standard Specification to Chip," Springer, 2010
 - **10 Citations (Google Scholar)**

101年9&10月 通過 學術審查

96學年度入學 (博六)

- 1. 10. PCmap: a Network Visualization and Analytic Platform for Fly Gene Interactions**, Chi-Ching Lee, Yi-Ping Phoebe Chen, Jian-Lin Huang, Chung-Shou Liao*, Chuan Yi Tang* and Ping-Chiang Lyu* (Manuscript in preparation)
- 2. Genome sequence of *Acinetobacter baumannii* TYTH-1**, Ming-Li Liou, Chih-Chin Liu, Chia-Wei Lu, Ming-Feng Hsieh, Kai-Chih Chang, Han-Yueh Kuo, Chi-Ching Lee, Chun-Tien Chang, Cheng-Yao Yang, and Chuan Yi Tang* (*Journal of Bacteriology*, SCI IF: 3.825, Rank: 29/114, 25%, *in press*)
- 3. Reconstruction of phyletic trees by global alignment of multiple metabolic networks**, Cheng-Yu Ma, Shu-Hsi Lin, Chi-Ching Lee, Chuan Yi Tang, Bonnie Berger and Chung-Shou Liao* (*BMC Bioinformatics*, SCI IF: 2.75, Rank: 7/47, 15%, *in press*)
- 4. 7. GI-POP: A combinational annotation and Genomic Island prediction Pipeline for Ongoing microbial genome Projects**, Chi-Ching Lee, Yi-Ping Phoebe Chen, Tzu-Jung Yao, Cheng-Yu Ma, Wei-Cheng Lo, Ping-Chiang Lyu* and Chuan Yi Tang*, (*Elsevier Gene*, SCI IF: 2.341, Rank: 93/158, 59%, *in press*)
- 5. Proteome reference map of *Drosophila melanogaster* head.**, Tian-Ren Lee[†], Shun-Hong Huang[†], Chi-Ching Lee, Hsiao-Yun Lee, Hsin-Tzu Chan, Kuo-Sen Lin, Hong-Lin Chan and Ping-Chiang Lyu* *Proteomics*. 2012 May 23, SCI IF: 4.505, Rank: 14/72, 14%
- 6. Metabolic classification of microbial genomes using functional probes**, Chi-Ching Lee[†], Wei-Cheng Lo[†], Szu-Ming Lai, Yi-Ping Phoebe Chen, Chuan Yi Tang, Ping-Chiang Lyu* *BMC Genomics*. 2012 April 27, SCI IF: 4.073, Rank:26/158, 16%
- 7. Construction and analysis of a plant non-specific lipid transfer protein database (nsLTPDB).**Nai-Jyuan Wang[†], Chi-Ching Lee[†], Chao-Sheng Cheng, Wei-Cheng Lo, Ya-Fen Yang, Ming-Nan Chen and Ping-Chiang Lyu* *BMC Genomics*. 2012 Jan 17, SCI IF: 4.073, Rank:26/158, 16%

8. **DSAP: deep-sequencing small RNA analysis pipeline.** Po-Jung Huang, Yi-Chung Liu, **Chi-Ching Lee**, Wei-Chen Lin, Richie Ruei-Chi Gan, Ping-Chiang Lyu* and Petrus Tang* *Nucleic Acids Research*. 2010 Jul 1; (Web Server issue), SCI IF: 8.026, Rank: 26/290, 9%
9. **iSARST: an integrated SARST web server for rapid protein structural similarity searches.** Wei-Cheng Lo, Che-Yu Lee, **Chi-Ching Lee**, and Ping-Chiang Lyu* *Nucleic Acids Research*. 2009 Jul 1; (Web Server issue), SCI IF: 8.026, Rank: 26/290, 9%
10. **CPDB: a database of circular permutation in proteins.** Wei-Cheng Lo, **Chi-Ching Lee**, Che-Yu Lee, and Ping-Chiang Lyu* *Nucleic Acids Research*. 2009 Jan 1; (Database issue), SCI IF: 8.026, Rank: 26/290, 9%

Genome sequencing project:

1. **Genome sequence of *Acinetobacter baumannii* TYTH-1 (PRJNA74551)** Ming-Li Liou , Chih-Chin Liu , Chia-Wei Lu , Ming-Feng Hsieh , Kai-Chih Chang , Han-Yueh Kuo , **Chi-Ching Lee** , Chun-Tien Chang , Cheng-Yao Yang, and Chuan Yi Tang* (17-SEP-2012, submitted to NCBI)

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Journal Papers

1. **C.-K. Lo**, Li, M.-L., Chen, L.-C., Lu, Y.-S., Yeh, J.-C., Huang, H.-Y., and Tsay, R.-S. "Automatic Generation of High-speed Accurate TLM Models for Out-of-Order Pipelined Bus.," accepted by *ACM Transactions on Embedded Computing Systems (TECS)*. (SCIE/EI)

Conference Papers

1. M.-L. Li, **C.-K. Lo**, L.-C. Chen, H.-J. Huang, J.-C. Yeh, and R.-S. Tsay, "A Formal Full Bus TLM Modeling for Fast and Accurate Contention Analysis," *Proc. of the 17th Workshop on Synthesis And System Integration of Mixed Information technologies (SASIMI)*, Oita, Japan, 2012. (**Outstanding Paper Award**)
2. **C.K. Lo**, L.C. Chen, M.H. Wu, and R.S. Tsay, "Cycle-Count-Accurate Processor Modeling for Fast and Accurate System-Level Simulation," *Proc. of the Design Automation and Test in Europe Conference (DATE)*, pp. 341-346, Grenoble, France, Mar. 14-18, 2011. (**Acceptance Rate: 27.0%, 211/781, citation: 3**)
3. K.-L. Lin, **C.-K. Lo**, Ren-Song Tsay, "Source-Level Timing Annotation for Fast and Accurate TLM Computation Model Generation," *Proc. of Asia and South Pacific Design Automation Conference (ASP-DAC) 2010* (**Acceptance Rate: 33.8%, 115/340, citation: 16**)
4. **C.-K. Lo** and R.-S. Tsay, "Automatic Generation of Cycle Accurate and Cycle Count Accurate Transaction Level Bus Models from a Formal Model," *Proc. of Asia and South Pacific Design Automation Conference (ASP-DAC) 2009* (**Acceptance Rate: 30.9%, 110/355, citation: 9**)

(The citation numbers are according to Google Scholar)

Posters

1. **C.-K. Lo**, M.-L. Li, S.-Y. Chen*, J.-C. Yeh, and R.-S. Tsay, "Automatic TLM Model Generation for Cycle-Count-Accurate Bus Simulation," *Work in Progress in Design Automation Conference (DAC) 2012*

2. **C.-K. Lo** and Ren-Song Tsay, “Automatic Generation of Cycle Accurate and Cycle Count Accurate Transaction Level Bus Models from a Formal Model”, *IEICE VLD Student Forum at ASP-DAC 2009 (Best Poster Award)*