

Curriculum Vitae

Name Tseng, Ching-Hung (曾景鴻)
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EDUCATION

- 2008 – 2015 PhD in Bioinformatics, Taiwan International Graduate Program (TIGP), Academia Sinica and National Yang-Ming University
Advisor: Dr. Sen-Lin Tang
“Analysis of microbial community and metagenome in marine and freshwater ecosystems”
- 2006 – 2008 MSc in Bioinformatics, National Yang-Ming University
Advisor: Dr. Chuan-Hsiung Chang
“Genome-wide computational analysis of genes regulated by novel sigma-like factors in Escherichia coli K-12”
- 2002 – 2006 BSc in Life Sciences, National Yang-Ming University
Advisor: Dr. Chuan-Hsiung Chang
“Prioritization of bacterial conserved hypothetical proteins for functional study”
- 1999 – 2002 Taipei Municipal Jianguo High School

EMPLOYMENT HISTORY

- 2017 Sep – Present General Manager, Germark Biotechnology Co., Ltd., Taiwan
- 2016 Aug – 2017 Aug Research and Development Manager, Germark Biotechnology Co., Ltd., Taiwan
- 2015 Aug – 2016 Jul Corporal, 21 Artillery Command, 6th Army Corps, Republic of China Army
- 2012 Apr – Jun MERIT Research Higher Degree (RHD) Visiting Scholar in Prof. Saman K. Halgamuge’s group, Melbourne School of Engineering, The University of Melbourne, Australia
- 2004 – 2008 Adjunct research assistant in Dr. Chuan-Hsiung Chang’s lab, National Yang-Ming University, Taiwan
- ✓ Prioritization of hypothetical proteins
 - ✓ Analysis of genes regulated by sigma-like factors in *E. coli*

- ✓ Essential genes in integrated interaction network of E. coli
 - ✓ NCBI taxonomy relationship retrieval
- 2007 Jul – Sep Summer intern student in Dr. Gary Xie's group, Los Alamos National Laboratory, U.S. Department of Energy, the United States of America
- ✓ BLAST applications on comparative genomics

PROFESSIONAL QUALIFICATIONS

Certifications	PhD candidacy in Bioinformatics, TIGP (August 2011) IRT English Proficiency Test (October 2008) TOEFL iBT score: 96 (R:26, L: 25, S:20, W:25; July 2008)
Computer Skills	Knowledgeable in Microsoft Windows PC environment Knowledgeable in Unix-like operation system administration Familiar with Unix-like operation system Programming language: Perl, R, MySQL, PHP, HTML, Python

AWARDS

- 2015 嚴智鍾教授獎學金, 台灣微生物學會
- 2012 MERIT Visiting RHD Scholar (2012 Apr – Jun), Professor Saman K. Halgamuge's Lab, MERIT Themes: Sustainable Systems and Energy and Biomedical Engineering, Melbourne School of Engineering, The University of Melbourne, Australia.
- 2012 The Third Place Poster Award. 2012 International Symposium on Evolutionary Genomics and Bioinformatics
- 2009 ApexBio Taiwan PhD Scholarship, two-year support
- 2008 Research Thesis Dean Award, School of Life Sciences, National Yang-Ming University
- 2007 Presidential Award, Institute of Biomedical Informatics, National Yang-Ming University
- 2006 Research Thesis Excellent Award, Department of Life Sciences, National Yang-Ming University

PUBLICATIONS

1. Jia-Ho Shiu, Shashank Keshavmurthy, Pei-Wen Chiang, Hsing-Ju Chen, Shueh-Ping Lou, **Ching-Hung Tseng**, Hernyi Justin Hsieh, Chaolun Allen Chen & Sen-Lin Tang. (2017) Dynamics of coral-associated bacterial communities acclimated to temperature stress based on recent thermal history. *Sci Rep*, 7:14933.
2. Shan-Hua Yang, **Ching-Hung Tseng**, Chang-Rung Huang, Chung-Pin Chen, Kshitij

- Tandon, Sonny T. M. Lee, Pei-Wen Chiang, Jia-Ho Shiu, Chaolun A. Chen and Sen-Lin Tang. (2017) Long-term survey is necessary to reveal various shifts of microbial composition in corals. *Front Microbiol*, 8:1094. (as **co-first** author)
3. Bayanmunkh Baatar, Pei-Wen Chiang, Denis Yu Rogozin, Yu-Ting Wu, **Ching-Hung Tseng**, Cheng-Yu Yang, Hsiu-Hui Chiu, Bolormaa Oyuntsetseg, Andrey G. Degermendzhy and Sen-Lin Tang. (2016) Bacterial Communities of Three Saline Meromictic Lakes in Central Asia. *PLoS ONE*, 11(3): e0150847.
 4. Shan-Hua Yang, Sonny T. M. Lee, Chang-Rung Huang, **Ching-Hung Tseng**, Pei-Wen Chiang, Chung-Pin Chen, Hsing-Ju Chen and Sen-Lin Tang. (2016) Prevalence of potential nitrogen-fixing, green sulfur bacteria in the skeleton of reef-building coral *Isopora palifera*. *Limnol Oceanogr*, doi: 10.1002/lno.10277
 5. **Ching-Hung Tseng**, Jaw-Town Lin, Hsiu J. Ho, Zi-Lun Lai, Chang-Bi Wang, Sen-Lin Tang and Chun-Ying Wu. (2016) Gastric microbiota and predicted gene functions are altered after subtotal gastrectomy in patients with gastric cancer. *Sci Rep*, 6:20701.
 6. **Ching-Hung Tseng**, Pei-Wen Chiang, Hung-Chun Lai, Fuh-Kwo Shiah, Ting-Chang Hsu, Yi-Lung Chen, Liang-Saw Wen, Chun-Mao Tseng, Wung-Yang Shieh, Isaam Saeed, Saman Halgamuge and Sen-Lin Tang. (2015) Prokaryotic assemblages and metagenomes in pelagic zones of the South China Sea. *BMC Genomics*, 16(1):219-34.
 7. **Ching-Hung Tseng** and Sen-Lin Tang. (2014) Marine Microbial Metagenomics: From Individual to the Environment. *Int J Mol Sci*, 15(5):8878-92.
 8. **Ching-Hung Tseng**, Pei-Wen Chiang, Fuh-Kwo Shiah, Yi-Lung Chen, Jia-Rong Liou, Ting-Chang Hsu, Suhinthan Maheswararajah, Isaam Saeed, Saman Halgamuge and Sen-Lin Tang. (2013) Microbial and viral metagenomes of a subtropical freshwater reservoir subject to climatic disturbances. *ISME J*, 7(12):2374-86.
 9. Ting-Wen Cheng, Yung-Hsin Chang, Sen-Lin Tang, **Ching-Hung Tseng**, Pei-Wen Chiang, Kai-Ti Chang, Chih-Hsien Sun, Yue-Gau Chen, Hung-Chi Kuo, Chun-Ho Wang, Pao-Hsuan Chu, Sheng-Rong Song, Pei-Ling Wang, and Li-Hung Lin. (2012) Metabolic stratification driven by surface and subsurface interactions in a terrestrial mud volcano. *ISME J*, 6(12):2280-90.
 10. Chung-Pin Chen, **Ching-Hung Tseng**, Chaolun A. Chen, Sen-Lin Tang. (2010) The dynamics of microbial partnerships in the coral *Isopora palifera*. *ISME J*, 5(4):728-40.

POSTER AND BOOK CHAPTER

1. **Ching-Hung Tseng**, Pei-Wen Chiang, Fuh-Kwo Shiah, Jia-Rong Liou, Yi-Lung Chen, Ting-Chang Hsu, Sen-Lin Tang. (2012) Comparative Metagenomics on a Typhoon Impacted Freshwater Ecosystem. 2012 International Symposium on Evolutionary Genomics and Bioinformatics. (Symposium Poster)
2. **Ching-Hung Tseng**, Sen-Lin Tang, Chon-Kit Kenneth Chan, Arthur L. Hsu, and

- Saman K. Halgamuge. (2013) Binning sequences using very sparse labels within a metagenome. In: Nelson K. (Ed.) Encyclopedia of Metagenomics: SpringerReference (www.springerreference.com). Springer-Verlag Berlin Heidelberg.
3. **Ching-Hung Tseng**, Chon-Kit Kenneth Chan, Arthur L. Hsu, Saman K. Halgamuge, Sen-Lin Tang. (2011) Binning Metagenomic Sequences using Seeded GSOM. In: Frans J. de Bruijn, Handbook of Molecular Microbial Ecology I: Metagenomics and Complementary Approaches (Chapter 42). Wiley-Blackwell.
 4. Hung-Chun Lai, Pei-Wen Chiang, **Ching-Hung Tseng**, Sen-Lin Tang. (2010) The diversity and compositions of stratified microbial assemblages in the interior of the northern South China Sea. 2010 General Assembly for the Establishment of Taiwan Society of Microbial Ecology and the International Conference, page 42. (Symposium Poster)
 5. **Ching-Hung Tseng**, Chung-Pin Chen, Hung-Chun Lai, Pei-Wen Chiang, Kai-Ti Chang, Sen-Lin Tang. (2010) A combinatory method maximizes taxonomy resolution in bacterial community analysis. 2010 General Assembly for the Establishment of Taiwan Society of Microbial Ecology and the International Conference, page 41. (Symposium Poster)
 6. Ying-Hsueh Huang, Chien-Chi Lo, Wen-Ching Chan, Wei-Xuan Lo, Chih-Hsien Yang, Chi Yang, **Ching-Hung Tseng**, Tien-Chueh Kuo, Yi-Feng Chang and Chuan-Hsiung Chang. Towards the whole picture of an entire cellular system: Accessing genome-scale system properties of *Escherichia coli* K-12 through an integrated interaction network. (2008) Microbial Genomes 2008. (Symposium Poster)
 7. Wei-Chao Liao, I Hsuan Lin, **Ching-Hung Tseng**, Chuan-Hsiung Chang. Systematic genomic approach to unique gene discovery: a *Lactococcus lactis* example (2007) The 12th Conference on Bacteriology. (Symposium Poster)
 8. Ying-Hsueh Huang, Chien-chi Lo, Wen-Ching Chan, Wei-Xuan Lo, Chih-Hsien Yang, Chi Yang, **Ching-Hung Tseng**, Tien-Chueh Kuo and Chuan-Hsiung Chang. INCO: An integrated interaction network of *Escherichia coli* K-12 MG1655 (2007) Microbial Genomes 2007. (Symposium Poster)
 9. **Ching-Hung Tseng**, Chuan-Hsiung Chang. Prioritization of bacterial conserved hypothetical proteins for functional study. (2005) The 10th Conference on Bacteriology. (Symposium Poster)
 10. **Ching-Hung Tseng**, Chuan-Hsiung Chang. Prioritizing conserved hypothetical proteins for functional/structural study. (2005) The 10th Symposium on Recent Advances in Biophysics. (Invited lecture to Dr. Chuan-Hsiung Chang)