

Curriculum Vitae

January 20, 2015

Hsuan-Cheng Huang (黃宣誠)

Professor & Director
Institute of Biomedical Informatics
National Yang-Ming University
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Birth: Oct. 31, 1970
Citizenship: Taiwan, R.O.C.
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Research Area: Systems Biology, Bioinformatics, Computational Biology, Network Biology

Professional Experience:

2012/8 – present Professor, Institute of Biomedical Informatics,
Center for Systems and Synthetic Biology, National Yang-Ming University
2013/6 – present Director, Inst. of Biomedical Informatics, National Yang-Ming Univ.
2006/8 – present Core Faculty, Bioinformatics Program,
Taiwan International Graduate Program (TIGP), Academia Sinica
2010/3 – present **Associate Editor** & Deputy Section Editor, *BMC Systems Biology*
2014/11 – present Executive Board Member, Taiwan Society of Evolution and Computational Biology
2012/8 – 2013/6 Acting Director, Inst. of Biomedical Informatics, National Yang-Ming Univ.
2009/4 – 2014/2 Board Member, Taiwan Society for Bioinformatics and Systems Biology
2008/8 – 2012/7 Associate Professor, Institute of Biomedical Informatics,
Center for Systems and Synthetic Biology, National Yang-Ming University
2008/10 – 2012/7 Adjunct Associate Professor, Graduate Institute of
Molecular Systems Biomedicine, China Medical University
2007/8 – 2008/7 Assistant Professor, Institute of Biomedical Informatics,
Center for Systems and Synthetic Biology, National Yang-Ming University
2007/8 – 2008/2 Visiting Scholar, University of California, Los Angeles, USA
2007/4 – 2009/3 Board Member & Executive Supervisor,
Taiwan Society for Bioinformatics and Systems Biology
2006/7 – 2006/8 Visiting Scholar, Nara Institute of Science and Technology, Japan
2004/8 – 2007/7 Assistant Professor, Institute of Bioinformatics, National Yang-Ming University
2003/11 – 2004/7 Research Fellow & Director of Bioinformatics, Inpac Inc., Taiwan
2003/11 – 2004/7 Visiting Scientist, Institute of Biological Chemistry, Academia Sinica
2002/11 – 2003/10 NSC Distinguished Postdoctoral Scholar,
Department of Physics, National Taiwan University
1998/8 – 2002/10 Postdoc, Department of Physics, National Taiwan University
1997/7 – 2001/8 Visiting Scientist, High Energy Accelerator Research Organization (KEK), Japan
1992/9 – 1998/7 Graduate Research Assistant, Department of Physics, National Taiwan University
1996/10 – 1997/12 Visiting Scientist, National Laboratory for High Energy Physics (KEK), Japan
1991 – 1995 Graduate Research Assistant, Institute of Biological Chemistry, Academia Sinica

Education:

1994 – 1998 Ph.D., Physics, National Taiwan University
Dissertation: *Search for T-Violating Muon Polarization in $K^+ \rightarrow \gamma\mu^+\nu_\mu$ Decay*
1992 – 1994 M.A., Physics, National Taiwan University
Master Thesis: *Effect of SU(2)-Singlet Charge-2/3 Quark on Top Quark Properties*
1988 – 1992 B.A., Department of Physics, National Taiwan University
1985 – 1988 Hsinchu Senior High School
Talented Student Program in Biology at Academia Sinica

Honors and Awards:

- 2007** NSC Wu Ta-You Memorial Award (吳大猷先生紀念獎)
2007–2013 National Yang-Ming University Academic Excellence Awards
2002 NSC Distinguished Postdoctoral Fellowship

• Competition Prizes

- Poster Awards, 2014 Taiwan Proteomics Society Annual Meeting & Translational and Systems Biology Symposium (TPS2014), NTU, Taipei, Taiwan, November 11 – 12, 2014. (with students Wen-Hsuan Yu, Pei-Chun Lu)
- The Best Poster Award, 2014 International Symposium on Evolutionary Genomics and Bioinformatics (ISEGB 2014), NCKU, Tainan, Taiwan, November 7 – 8, 2014. (with student Pei-Chun Lu)
- Honorable Mention, the 11th Symposium on Bioinformatics and Systems Biology in Taiwan (BIT2013), Taipei, Taiwan, October 18 – 21, 2013. (with student Cheng-Jin Huang)
- The First Prize & Second Prize of Poster Competition, the 18th Biophysics Conference, Taipei, Taiwan, June 27 – 29, 2013. (with postdocs Hsin-Yi Chang, Chia-Lang Hsu)
- Advising student Ken-Chi Yang awarded Finalists for Yin Xun-Ruo Master Thesis Competition, May, 2013.
- The Third Prizes of Poster Competition, 2013 Taiwan Proteomics Society International Conference — Recent Advances in Translational Medicine, Taipei, Taiwan, May 24 – 25, 2013. (with student Chie-Ren Hsia and postdoc Hsin-Yi Chang)
- Excellent Poster Award, 28th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 23 – 24. (with student K.-H. Hsu)
- Poster Award, the 10th Symposium on Bioinformatics and Systems Biology in Taiwan (BIT2012), Taipei, Taiwan, October 19 – 21, 2012. (with student Ken-Chi Yang)
- Poster Awards, the 9th Symposium on Bioinformatics and Systems Biology in Taiwan (BIT2011), Taipei, Taiwan, September 28 – 30, 2011. (with students Tzu-Chi Kuo, Chen-Chin Lin, Hao-Han Liao)
- The Third Prize of Poster Competition, the 16th Biophysics Conference, Huanlien, Taiwan, May 18 – 21, 2011. (with student Hsuan-Kai Wang)
- Poster Awards, 2011 Translational Medicine Conference and Taiwan Proteomics Society Annual Symposium, Taipei, Taiwan, April 27 – 28, 2011. (with students Chien-Wei Cheng, Yi-Hsuan Wu)
- Poster Award, the 26th Joint Annual Conference of Biomedical Science, Taipei, Taiwan, March 19 – 20, 2011. (with student Kai-Neng Chuang)
- Poster Award, the 15th Joint Biophysics Conference, Academia Sinica, Taipei, Taiwan, May 19 – 21, 2010. (with student Cheng-Yu Chen)
- Poster Award, the 25th Joint Annual Conference of Biomedical Science, Taipei, Taiwan, March, 2010. (with student Chung-Cheng Hsu)
- Poster Award, 2009 TPS International Proteomics Conference and 5th AOHUPO MPI Workshop, Taipei, Taiwan, June 19 – 20, 2009. (with student Meng-Shuang Lee)
- Third Prize of poster competition, 2008 Taiwan-Japan Proteomics Symposium, Taipei, Taiwan, December, 2008. (with student Chia-Wei Hu)
- Advising student Chun-Wei Hsu awarded Yin Xun-Ruo Master Thesis Prize, June, 2008.
- Poster Awards (three), Mawudu Autumn School, Taiwan Society of Biochemistry and Molecular Biology, Taiwan, October, 2007. (with students Chi-Chin Chang, Hsin-Yi Chang, Chia-Wei Hsu)
- Advising student Chen-Ching Lin awarded Yin Xun-Ruo Master Thesis Prize, June, 2007.
- Poster Award, the XXII Joint Annual Conference of Biomedical Sciences, Taiwan, March, 2007. (with student Cheng-Pao Chen)

- First and Second Prizes of poster competition, Fourth Asia Pacific Bioinformatics Conference, Taiwan, February, 2006. (with students Yue-Yang Bow, Jen-Yun Chang; Cheng-Han Ou)
- Second Prize of poster competition, Bioinformatics in Taiwan 2004, Taiwan, September, 2004. (with student Jia-Je Li)
- Top 10 Prize of poster competition, the Third International Proteomics Conference, Taiwan, May, 2004. (with student Jia-Je Li)
- Best Poster Award, the Fourth International Conference on B Physics and CP Violation, Japan, February, 2001.
- Prize for Outstanding Performance, National Mathematics Contest, Taiwan, R.O.C., 1987.

Synergistic Activities:

• Journal Reviewer

Bioinformatics, PLoS Computational Biology, Briefings in Bioinformatics, BMC Systems Biology, BMC Bioinformatics, BMC Evolutionary Biology, Nucleic Acids Research, Journal of Proteome Research, Proteomics, Molecular BioSystems, Journal of Computational Biology, Physical Biology, Scientific Reports, PLoS ONE, Cell Cycle, Oncotarget, Genome Biology and Evolution, BMC Genomics, BMC Medical Genomics, BMC Evolutionary Biology, Molecular Genetics and Genomics, Gene, Genetica, Apoptosis, Biotechnology and Bioengineering, Integrative Biology, Computational Biology and Chemistry, Computer Methods and Programs in Biomedicine, IEEE Transactions on Fuzzy Systems, IEEE Transactions on Knowledge and Data Engineering, International Journal of Data Mining and Bioinformatics, Journal of Information Science and Engineering, Journal of Medical and Biological Engineering, Journal of Taiwan Institute of Chemical Engineers (Journal of the Chinese Institute of Chemical Engineers), Microbial Informatics and Experimentation, Journal of Biological Systems, The Python Papers

• Conference Program Committee

- The 2nd International Conference on Algorithms for Computational Biology (AlCoB 2015), July 28 – 30, 2015, Mexico City.
- The 13th Asia Pacific Bioinformatics Conference (APBC2015), January 21 – 23, 2015, Hsinchu, Taiwan.
- The 25th International Conference on Genome Informatics (GIW/ISCB-Asia 2014), December 15 – 17, 2014, Tokyo, Japan.
- The 5th International Conference on Computational Systems Biology and Bioinformatics (CSBio 2014), November 10-12, 2014, Singapore.
- The 24th International Conference on Genome Informatics (GIW2013), December 16 – 18, 2013, Singapore.
- ISCB-Asia/SCCG 2012, December 17 – 19, 2012, Shenzhen, Chian.
- The 10th Symposium of Bioinformatics and Systems Biology in Taiwan (BIT2012), October 19 – 21, 2012, Taipei, Taiwan
- 11th IEEE International Conference on Bioinformatics and Bioengineering (BIBE2011), October 24-26, 2011, Taichung, Taiwan
- The 9th Symposium of Bioinformatics and Systems Biology in Taiwan (BIT2011), September 28 – 30, 2011, Taipei, Taiwan
- 2010 International Workshop on Data Mining for Biomarker Discovery (DMBD2010), December 18 – 21, 2010, Hong Kong
- 2010 International Computer Symposium (ICS'10), Workshop on Biomedical Informatics, December 16 – 18, 2010, Tainan, Taiwan
- The 8th Annual Symposium of Bioinformatics and Systems Biology in Taiwan (BIT2010), September 30 - Oct. 2, 2010, Taipei, Taiwan

- 2009 International Workshop on Data Mining for Biomarker Discovery (DMBD 2009), November 1st – 4th, 2009, Washington DC, USA
- The 9th IEEE International Conference on Bioinformatics and Bioengineering (BIBE2009), June 22 – 24, 2009, Taichung, Taiwan
- 2008 Joint Conference on Medical Informatics in Taiwan (JCMIT2008), November 21 – 31, 2008, Taipei, Taiwan
- 2008 International Computer Symposium (ICS2008), November 13 – 15, 2008, Taipei, Taiwan
- 2006 International Computer Symposium (ICS2006), Workshop on Medical and Bio-Informatics, December 4 – 6, 2006, Taipei, Taiwan
- The 7th International Conference on Systems Biology (ICSB2006), October 9 – 13, 2006, Yokohama, Japan
- 2006 Workshop on Pattern Recognition in Bioinformatics (PRIB'06), August 20, 2006, Hong Kong, China

- **Conference Reviewer**

- The 9th Asia Pacific Bioinformatics Conference (APBC2011), Incheon, Korea, January 11 – 14 , 2011
- Symposium and Workshop of Bioinformatics in Taiwan 2006 (BIT2006), Taichung, Taiwan, September, 2006
- The Third Asia-Pacific Bioinformatics Conference (APBC2005), Singapore, January, 2005

- **Conference Administration**

- Organisers, The 3rd EITA-Bio and the 15th Emerging Information and Technology Conference (EITA-EITC 2015), Taipei, Taiwan, November 21 – 22, 2015
- General Chair, The 12th Bioinformatics and Systems Biology in Taiwan (BIT2014), Taipei, Taiwan, November 13 – 14, 2014
- Organizing Committee, 2014 Annual Meeting of Taiwan Proteomics Society and Translational and Systems Biology Symposium, Taipei, Taiwan, November 11-12, 2014
- Session Chair, The 2014 EITA Conference on New Media and Biomedical Research, Cambridge, Massachusetts, July 31 – August 1, 2014
- General Chair, The 11th Bioinformatics and Systems Biology in Taiwan (BIT2013), Taipei, Taiwan, October 18-21, 2013
- Organizing Committee, The 6th IECA Conference on Synthetic Biology with Applications to Biotechnology (IECA2012), Taipei, Taiwan, December 10–12, 2012
- Session Chair, High Throughput Screening Technology Symposium, NCKU, Tainan, Taiwan, October 1 – 2, 2009
- Session Co-chair, 12th SCBA International Symposium, June 14 –18, 2009, Taipei, Taiwan
- Session Co-chair, Westlake Conference for Personalized Medicine, Hangzhou, China, May 29–31, 2009
- Session Chair & Local Organizing Committee, The 7th International Conference of Bioinformatics (InCoB 2008), Taipei, Taiwan, October 20–22, 2008
- Chair & Organizer, The Second ABREN Virtual Workshop on Bioinformatics, July 2007
- Co-organizer, 2007 Systems Biology and Bioinformatics Symposium and Workshop (SBBS07), Taipei, Taiwan, March 27 – 29, 2007
- Session Chair, The Second Taiwan-Japan Bilateral Symposium on Bioinformatics, Tainan, Taiwan, November 7 – 9, 2006
- Session Chair, The Fifth Emerging Information Technology Conference (EITC2006), Dallas, Texas, August 10–12, 2006

- Committee, Asian Bioinformatics Research and Education Network (ABREN), 2006 – 2007
- Organizer, Mini-Workshop on Microbial Systems Biology, National Yang-Ming University, March 16 – 17, 2006
- Organization Committee, The Fourth Asia Pacific Bioinformatics Conference (APBC2006), February, 13-16, 2006, Taipei, Taiwan
- Session Chair, International Symposium on Grid Computing 2005 (ISGC2005), Taipei, Taiwan, April 25 – 29, 2005
- Co-organizer, 2005 Systems Biology and Bioinformatics Symposium and Workshop (SBBS05), Taipei, Taiwan, March 29 – 31, 2005
- Organization Committee, Bioinformatics in Taiwan 2004 (BIT2004), Taipei, Taiwan, September 9-11, 2004
- Guide Committee, Bioinformatics and Systems Biology Education Center, MOE Advanced Biotechnology Education Program, 2005 – 2009

- **Invited Talks**

- International:**

1. “MicroRNA Regulation in Human Protein Interaction Network”, The 2014 EITA Conference on New Media and Biomedical Research, Cambridge, Massachusetts, July 31 – August 1, 2014
2. “MicroRNA Regulation in Human Protein Interaction Network”, The First BMIRC International Symposium on Frontiers in Computational Systems Biology and Bioengineering, Iizuka, Fukuoka, Japan, February 28 – March 1, 2013
3. “Revealing Biological Contexts in Signed Molecular Network”, The 12th Emerging Information and Technology Conference, Toronto, Canada, August 16 – 17, 2012
4. “Linking Clustering Reveals Biological Contexts in Signed Molecular Networks”, The 10th InCoB and 1st ISCB-Asia Joint Conference 2011, Kuala Lumpur, Malaysia, November 30 – December 2, 2011
5. “MicroRNA Regulation in Human Protein Interaction Network”, The Human Proteome Organisation 9th Annual World Congress (HUPO2010), Sydney, Australia, September 19 – 23, 2010
6. “Finding Disease Related Modules in Co-Expressed Protein Interaction Networks”, The 9th Emerging Information and Technology Conference (EITC2009), Massachusetts Institute of Technology, Cambridge, MA, USA, August 6 – 7, 2009
7. “Comparative Analysis of Co-expressed Protein Interaction Networks”, Westlake Conference for Personalized Medicine, Hangzhou, China, May 29–31, 2009
8. “Standards and Databases for Biological Network Modeling”, KHUPO 9th Annual International Proteomics Conference, Seoul, Korea, March 25–27, 2009
9. “MicroRNA Regulated Protein Interaction Network”, International Symposium on Systems Bioinformatics, Ewha Womans University, Seoul, Korea, November 12, 2008
10. “MicroRNA Regulated Protein Interaction Network”, The 9th International Conference of Korean Society for Bioinformatics and Systems Biology (KSBSB) (BIOINFO 2008), Chungbuk National University, Korea, November 13 – 14, 2008
11. “MicroRNA-Regulated Protein Interaction Network”, Institute for Advanced Biosciences, Keio University, Tsuruoka, Japan, June 23, 2008
12. “Essential Core in Protein Interaction Network”, The 16th Korea Genome Organization Conference, Seoul, Korea, September 13 – 14, 2007
13. “Network biology of essential genes”, Department of Bioscience and Bioinformatics, Kyushu Institute of Technology, Iizuka, Japan, January 30, 2007

14. “Network characteristics of essential genes in *E. coli*”, The 7th International Conference of Korean Society for Bioinformatics (BIOINFO 2006), Pohang, Korea, September 14 – 16, 2006
15. “Identification of RNA-Binding Protein Residues Using Machine Learning Approaches”, Graduate School of Biological Sciences, Nara Institute of Science and Technology, Nara, Japan, August 25, 2006
16. “Topological Similarity of Protein Interaction Network and its Correlation with Gene Expression Profiles”, The Fifth Emerging Information Technology Conference (EITC2006), Dallas, Texas, August 10 – 12, 2006
17. “Systems Biology: Modeling of Biological Network”, The First Virtual Training Workshop on Bioinformatics, May – June, 2006 (an online course)
18. “Elucidating the Essentiality of Essential Genes”, The First Japan-Taiwan Bilateral Symposium on Bioinformatics, Tokyo, Japan, March 13 – 15, 2006
19. “Systems Biology Study of a Novel Compound on Cancer Cells”, First K.I.T. Bioinformatics Symposium, Iizuka, Japan, December 9 – 11, 2004
20. “Baryonic B Decays”, 2003 International Europhysics Conference on High Energy Physics, Aachen, Germany, July 17 – 23, 2003
21. “Performance of a Small Angle BGO Calorimeter at Belle”, The 10th International Conference on Calorimetry in High Energy Physics, Pasadena, USA, March 25 – 29, 2002
22. “Rare B Decays at Belle”, XXXVIIth Rencontres de Moriond — Electroweak Interactions and Unified Theories, Les Arcs, France, March 9 – 16, 2002
23. “Non-CP Physics Results from Belle”, 2001 Aspen Winter Conference on Particle Physics, Aspen, Colorado, January 9 – 17, 2001

Domestic:

1. “Biological Network Analysis for Understanding Life and Disease Mechanisms”, NCTS Colloquium, National Center for Theoretical Sciences, Hsinchu, January 10, 2014
2. “Dissecting Human Protein Interaction Network via Phylogenetic Decomposition”, The 18th Biophysics Conference, Academia Sinica, Taipei, June 27 – 29, 2013
3. “Dissecting Human Protein-Protein Interaction Network via Phylogenetic Decomposition”, TIGP Bioinformatics Program, Academia Sinica, May 9, 2013
4. “Revealing Biological Contexts in Signed Molecular Networks”, International Symposium on Evolutionary Genomics and Bioinformatics, National Sun Yat-sen University, October 19 – 21, 2012
5. “Revealing Biological Contexts in Signed Molecular Networks”, Institute of Biomedical Informatics, National Yang-Ming University, March 18, 2012
6. “Revealing Biological Contexts in Signed Molecular Networks”, 2012 Soft Matter and Biophysics Winter School, National Cheng Kung University, January 15 – 17, 2012
7. “Understanding Biology Through Computational Analysis of Complex Molecular Networks”, School of Life Sciences, National Yang-Ming University, October 26, 2011
8. “Link Clustering Reveals Biological Contexts in Signed Molecular Networks”, TIGP Bioinformatics Program, Academia Sinica, October 13, 2011
9. “Understanding Life Through Analysis of Complex Biological Networks”, Graduate Institute of Applied Physics, National Chengchi University, April 25, 2011
10. “Network Biology — Understanding Life Through Analysis of Complex Biological Networks”, Department of Physics, National Central University, April 12, 2011

11. “MicroRNA Regulation in Protein Interaction Network”, RNAi Symposium, Kaohsiung Medical University, March 26, 2011
12. “Finding Disease Modules in Human Protein Networks”, Institute of Bioinformatics and Biosignal Transduction, National Cheng Kung University, March 18, 2011
13. “Network Biology — Understanding Life Through Analysis of Complex Biological Networks”, Institute of Physics, Academia Sinica, January 11, 2011
14. “Understanding Life Through Analysis of Complex Biological Networks”, Center of Mathematical Modeling and Scientific Computing, National Chiao Tung University, November 11, 2010
15. “Finding Disease Modules in Protein Interaction Networks”, 2010 NCTS September Workshop on Critical Phenomena and Complex Systems, Institute of Physics, Academia Sinica, Taipei, Taiwan, September 10–11, 2010
16. “Network Biology — Understanding Life Through Analysis of Complex Biological Networks”, Department of Physics, National Taiwan University, June 14, 2010
17. “MicroRNA Regulation in Human Protein Interaction Network”, TIGP Bioinformatics Program, Academia Sinica, April 30, 2010
18. “Network Biology of MicroRNA Regulation”, School of Life Sciences, National Yang-Ming University, April 28, 2010
19. “MicroRNA Regulation in Protein Interaction Network”, NHRI, Taiwan, January 12, 2010
20. “Network Biology of MicroRNA Regulation”, Department of Biotechnology and Laboratory Science in Medicine and Institute of Biotechnology in Medicine, National Yang-Ming University, December 4, 2009
21. “Finding Disease Modules in Co-expressed Protein Interaction Networks”, Institute of Systems Biology and Bioinformatics, National Central University, Jhungli, Taiwan, October 22, 2009
22. “Finding Disease Modules in Co-expressed Protein Interaction Networks”, The Seventh Symposium of Bioinformatics and Systems Biology in Taiwan (BIT2009), NYMU, Taipei, Taiwan, October 8 – 9, 2009
23. “Comparative Analysis of Co-expressed Protein Interaction Networks”, High Throughput Screening Technology Symposium, NCKU, Tainan, Taiwan, October 1 – 2, 2009
24. “Finding Disease Related Modules in Co-expressed Protein Interaction Networks”, Mini-Workshop on Systems Biology, NCTU, Hsinchu, Taiwan, June 18, 2009
25. “Predicting Essential Genes Based on Network and Sequence Analysis”, 2009 AI Forum, JUST, Taipei, Taiwan, May 15–16, 2009
26. “Comparative Analysis of Co-expressed Protein Interaction Networks Reveals Disease Related Modules”, Systems Biology Journal Club, Institute of Statistical Science, Academia Sinica, Taipei, Taiwan, April 22, 2009
27. “MicroRNA-Regulated Networks”, 2009 Symposium of Taiwan Society for Bioinformatics and Systems Biology, NCTU, Hsinchu, Taiwan, March 5, 2009
28. “MicroRNA Regulation in Protein Interaction Network”, The 7th International Conference of Bioinformatics (InCoB 2008), Taipei, Taiwan, October 20–22, 2008
29. “Biological Network Analysis”, 2008 Workshop of Systems Biology and Soft Computing, NTU, Taipei, Taiwan, July 16–17, 2008
30. “MicroRNA Regulation in Protein Interaction Network”, Department of Computer Science and Information Engineering & Institute of Medical Informatics, National Cheng Kung University, Tainan, Taiwan, May 9, 2008

31. “MicroRNA-Regulated Protein Interaction Network”, Institute of Biomedical Informatics, National Yang-Ming University, Taipei, Taiwan, March 28, 2008
32. “MicroRNA-Regulated Protein Interaction Network”, The First Japan-Taiwan Young Researchers Conference on Computational and Systems Biology, Hsinchu, Taiwan, March 9 – 11, 2008
33. “Network Biology of Essential Genes”, Department of Chemical Engineering, National Taiwan University, May 23, 2007
34. “Predicting Essential Genes Based on Network and Sequence Analysis”, 2nd Workshop on Systems Biology and Bioinformatics, National Central University, April 14 – 15, 2007
35. “Network Biology of Essential Genes”, Institute of Zoology, National Taiwan University, March, 19, 2007
36. “Network Biology of Essential Genes”, Biophysics and Soft-Matter Days 2007, Kenting, Taiwan, January 26 – 28, 2007
37. “Network Biology of Essential Genes in *E. coli*”, 2007 Protein-Protein Interaction and Network Biology Workshop, Taipei, Taiwan, January 22, 2007
38. “Network Biology of Essential Genes”, Institute of Systems Biology and Bioinformatics, National Central University, December 28, 2006
39. “Topological Similarity of Protein Interaction Network”, The Second Taiwan-Japan Bilateral Symposium on Bioinformatics, Tainan, Taiwan, November 7 – 9, 2006
40. “Network Biology of Essential Genes”, Institute of Physics, Academia Sinica, October 27, 2006
41. “Reconstruction of Gene Network and its Applications”, Symposium for Systems Biology Virtual Laboratory and Genomics Approach to Chinese Medicine and Core Technology Training Course (III), Taipei Medical University, October 20 – 21, 2006
42. “Network characteristics of essential genes in *E. coli*”, 11th Symposium on Recent Advances in Biophysics, Taipei, Taiwan, May 24 – 26, 2006
43. “Systems Biology — A New Way of Doing Biology”, Department of Physics, National Dong-Hua University, May 8, 2006
44. “Network Biology of Essential Genes in *E. coli*”, Institute of Information Science, Academia Sinica, April 6, 2006
45. “Identification of RNA-Binding Protein Residues Using Machine Learning Approaches”, Second Taiwan-India Functional Genomics Symposium, Taipei, Taiwan, March 3 – 4, 2006
46. “Systems Biology: Modeling of Biological Network”, The Fourth Asia Pacific Bioinformatics Conference (APBC2006), February, 13-16, 2006, Taipei, Taiwan (a tutorial lecture)
47. “Systems Biology — A New Way of Doing Biology”, Department of Physics, Chung-Yuan Christian University, November 28, 2005
48. “Elucidating the Essentiality of Essential Genes”, NCTS Symposium on Network Biology, Hsin-Chu, Taiwan, November 11, 2005
49. “Identification of RNA-Binding Protein Residues Using Machine Learning Approaches”, Symposium and Workshop of Bioinformatics in Taiwan 2005 (BIT2005), Tainan, Taiwan, September 9 – 10, 2005
50. “Identification of RNA-Binding Protein Residues Using Machine Learning Approaches”, The Fifth Emerging Information Technology Conference (EITC2005), Taipei, Taiwan, August 15 – 16, 2005
51. “Systems Biology Study of a Novel Drug — cyclic RGD in Breast Cancer Cell MCF-7”, Institute of Biochemistry, National Chung-Hsing University, April 22, 2005

52. “Systems Biology Study of a Novel Drug on Cancer Cells”, Institute of Information Science, Academia Sinica, March 10, 2005
53. “A New Way of Doing Biology”, 2005 Bioinformatics Symposium, National Taiwan University, January 18, 2005
54. “Proteome Analysis”, Sixth Bioinformatics Workshop, National Chung-Cheng University, November 12, 2004
55. “Bioinformatics Applications in Systems Biology”, Department of Computer Science and Information Engineering, National Taiwan University, April 16, 2004
56. “Proteomics Study of Cyclic RGD in Breast Cancer Cell Using Bioinformatics Techniques”, Proteomics Symposium, National Central University, March 5, 2004
57. “Systems Biology Study of a Novel Drug — cyclic RGD in Breast Cancer Cell MCF-7”, Institute of Bioinformatics, National Yang-Ming University, February 18, 2004
58. “Three-body Hadronic B decays”, Third International Workshop on B Physics and CP Violation, Taipei, Taiwan, September 29 – October 1, 2003
59. “Observation of $B \rightarrow \phi\phi K$ ”, Department of Physics, National Taiwan University, March 10, 2003
60. “Discovery of Novel B Decays”, Department of Physics, National Tsing-Hua University, February 25, 2003
61. “Belle Experiment — Symmetry Breaking of Elementary Particles”, Department of Physics, National Taiwan University, October 11, 2002
62. “Belle Experiment — Symmetry Breaking of Elementary Particles”, Department of Physics, Chung-Yuan Christian University, October 7, 2002
63. “Rare B decays at Belle”, Second International Workshop on B Physics and CP Violation, Taipei, Taiwan, June 7 – 9, 2002
64. “Rare B Meson Decays at Belle”, Department of Physics, National Tsing-Hua University, April 22, 2002
65. “Color-suppressed $B^0 \rightarrow D^0 h^0$ at Belle”, Department of Physics, National Taiwan University, September 28, 2001

- **Grants**

- “Integrative Network Analysis of Long Non-Coding RNA Modulation in ATP Stimulated Cancer Cells”, 2014/8 – 2017/7, MOST
- “Modeling Dynamics of Regulatory Genome Complexity in Evolution and Development”, 2013/8 – 2014/10, NSC
- “Evolution of microRNA and transcription factor co-regulation”, 2010/8 – 2013/10, NSC
- “Modeling of microRNA-Regulated Gene Network to Elucidate Cancer Cell Dynamics”, 2009/1 – 2012/12, NHRI
- “Computational Systems Biology Study of *Escherichia coli*”, 2007/8 – 2010/10, NSC
- “Systems and Computational Biology of *Rhodospseudomonas palustris* Aimed for Bioenergy Application” – Subproject 2: “Computational Systems Biology of *Rhodospseudomonas palustris*”, 2007/8 – 2010/10, NSC
- “Development of Shrimp Bioinformatics Platform and Database for Functional Genomics Study”, 2005/1 – 2008/12, COA

- **Teaching Experience**

Systems Biology (2005 – 2014), Network Biology (2006 – 2014), Principles in Bioinformatics (2005 – 2014), Mathematical Biology (2008, 2011), Bioinformatics Programming (2005, 2011, 2012), Programming (2004), General Physics (2012 – 2014), Medical Physics (2009), Chemical Principles (2014), Genomics (2010 – 2014), Microarray Data Analysis (2007 – 2008), Computer Applications in Biology (2006, 2008–2009), Scientific Writing (2008 – 2014)

- **Memberships:** Taiwan Society of Evolution and Computational Biology, Taiwan Society for Bioinformatics and Systems Biology, Taiwan Proteomics Society, Biophysical Society of R.O.C., Taiwan Society for Biochemistry and Molecular Biology, Institute of Information & Computing Machinery, International Society for Computational Biology,

Publication List

January 9, 2015

Hsuan-Cheng Huang

Journal Papers: (*h*-index: 43)

1. **Integrating transcriptomics and proteomics to show that tanshinone IIA suppresses cell growth by blocking glucose metabolism in gastric cancer cells.**
Lin LL, Hsia CR, Hsu CL, **Huang HC***, Juan HF*, BMC Genomics, *in press*.
2. **Quantitative proteomics reveals middle infrared radiation-interfered networks in breast cancer cells.**
Chang HY, Li MH, Huang TC, Hsu CL, Tsai SR, Lee SC*, **Huang HC***, Juan HF*, J. Proteome Res., *in press*.
3. **Combination therapy targeting ectopic ATP synthase and 26S proteasome induces ER stress in breast cancer cells.**
Chang HY, Huang TC, Chen NN, **Huang HC***, Juan HF*, Cell Death and Disease, **5**, e1540 (2014).
4. **Dissecting the human protein-protein interaction network via phylogenetic decomposition.**
Chen CY, Ho A, Huang HY, Juan HF*, **Huang HC***, Sci. Rep., **4**, 7153 (2014).
5. **MicroRNA-mediated networks underlie immune response regulation in papillary thyroid carcinoma.**
Huang CT, Oyang YJ, **Huang HC***, Juan HF*, Sci. Rep., **4**, 6495 (2014).
6. **Mirin: Identifying microRNA regulatory modules in protein-protein interaction network.**
Yang KC, Hsu CL, Lin CC, Juan HF*, **Huang HC***, Bioinformatics, **30**, 2527-8 (2014).
7. **Deciphering molecular determinants of chemotherapy in gastrointestinal malignancy using systems biology approaches.**
Lin LL, **Huang HC***, Juan HF*, Drug Discovery Today, **19**, 1402-1409 (2014).
8. **Aryl hydrocarbon receptor downregulates MYCN expression and promotes cell differentiation of neuroblastoma.**
Wu PY, Liao YF, Juan HF, **Huang HC**, Wang BJ, Lu YL, Yu IS, Shih YY, Jeng YM, Hsu WM, Lee H, PLoS ONE, **9**, e88795 (2014).
9. **Quantitative proteomic analysis of human lung tumor xenografts treated with the ectopic ATP synthase inhibitor citreoviridin.**
Wu YH, Hu CW, Chien CW, Chen YJ, **Huang HC***, Juan HF, PLoS ONE, **8**, e70642 (2013).
10. **Quantitative Proteomics Reveals Diverse Roles of miR-148a from Gastric Cancer Progression to Neurological Development.**
Hu CW, Tseng CW, Chien CW, **Huang HC**, Ku WC, Lee SJ, Chen YJ, Juan HF, J. Proteome Res., **12**, 3993-4004 (2013).
11. **Identification of microRNA 395a in 24-epibrassinolide-regulated root growth of *Arabidopsis thaliana* using microRNA arrays.**
Lin LL, Wu CC, **Huang HC***, Chen HJ, Hsieh HL*, Juan HF*, Int. J. Mol. Sci., **14**, 14270-86 (2013).
12. **Link clustering reveals structural characteristics and biological contexts in signed molecular networks.**
Lin CC, Lee CH, Fuh CS, Juan HF*, **Huang HC***, PLoS ONE, **8**, e67089 (2013).
13. **Comprehensive methylome analysis of ovarian tumors reveals hedgehog signaling pathway regulators as prognostic DNA methylation biomarkers.**
Huang RL, Gu F, Kirma NB, Ruan J, Chen CL, Wang HC, Liao YP, Chang CC, Yu MH, Pilrose JM, Thompson IM, **Huang HC**, Huang TH, Lai HC, Nephew KP, Epigenetics, **8**, 624-34 (2013).
14. **MicroRNA-regulated protein-protein interaction networks and their functions in breast cancer.**
Lee CH, Kuo WH, Lin CC, Oyang YJ, **Huang HC***, Juan HF*, Int. J. Mol. Sci., **14**, 11560-606 (2013).

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