Brief Biography: Hsueh-Fen Juan (阮雪芬)

Hsueh-Fen Juan was born in 1969, Miao-Li, Taiwan. She received her BS and MS degree in Botany and PhD in Biochemical Sciences from National Taiwan University (NTU) in 1999. She worked as a research scientist in the Japan International Research Center for Agricultural Sciences (Tsukuba, Japan) during 2000-2001 and a postdoctoral research fellow in the Institute of Biological Chemistry, Academia Sinica (Taipei, Taiwan) during 2001-2002.

She started her academic career in the Department of Chemical Engineering, National Taipei University of Technology as an assistant professor and in the Department of Computer Science and Information Engineering at NTU as an adjunct assistant professor in 2002. She moved to NTU in 2004 as an assistant professor in the Department of Life Science and the Institute of Molecular and Cellular Biology. She was promoted to be an associate professor in 2006 and full professor in 2009 in the Department of Life Science, Institute of Molecular and Cellular Biology and Graduate Institute of Biomedical Electronics and Bioinformatics, NTU. Dr. Juan studied synthetic biology with Professor Hirotada Mori (NIST, Japan) in 2006 and Dr. James C. Liao (UCLA, USA) during 2007-2008. She is currently working on synthetic biology and systems biology by integrating genomics, transcriptomics, proteomics and bioinformatics for molecular signaling as well as biomarker and drug discovery.

Prof. Juan has developed a number of novel methods to advance systems-biology research and applied such approach for drug discovery and elucidating molecular mechanism of drug responses in cancer cells. She has published more than 110 journal papers including prestigious journals such as *Proc. Natl. Acad. Sci. U S A, Bioinformatics, Briefings in Bioinformatics, Clinical Cancer Research, Cancer Res., Nucleic Acids Res.* Among these publications, Prof. Juan has breakthrough research achievement in targeting ectopic ATP synthase for cancer therapy, therefore Science Daily & American Chemical Society weekly news reported these results; additionally, she has two papers selecting as ESI highly cited papers in 2013. She edited two scientific books entitled as *Systems Biology: Applications in cancer-related research* (2012) and *A Practical Guide to Cancer Systems Biology* (2018). She is now the editor of *Scientific Reports* (Nature Publishing Group), *Computational and Mathematical Methods in Medicine* (Hindawi Publishing Corporation), *PeerJ*, and *PeerJ Computer Science*. She also serves as the reviewer more than 50 various journals.

To promote systems biology field, she has organized several international systems biology and bioinformatics symposiums. She is one of the founders of Center for Systems Biology and Bioinformatics (NTU), and currently the Council Member of four societies, Taiwan Bioinformatics and Systems Biology Society, Taiwan Proteomics Society, Taiwan Society of Evolution and Computational Biology, Taiwan Society for Biochemistry and Molecular Biology and Taiwan Society for Extracellular Vesicles.. Since Dr. Juan made significant contributions through systems biology approach to development of methodology and cancer therapy; she received the awards "Taiwan's Ten Outstanding Young Persons" (2008), FY2011 JSPS Invitation Fellowship Program for Research in Japan (2011), K. T. Li Breakthrough Award by Institute of Information and Computing Machinery (2012), and National Science Council (NSC) Award for Special Talents of the Colleges (2010-2015, 2017-2018), NTU Academic Performance Reward (2015-2018) and 2015 USA Emerging Information and Technology Association (EITA) Service Award. Additionally, she has been invited to give more than 160 talks worldwide and led her team members to obtain more than 80 research awards.

CURRICULUM VITAE

(Oct. 2019)

PERSONAL DATA

Name: Hsueh-Fen Juan (阮雪芬) Title: Professor Address: Room 1105, 11F, Life Science Building, National Taiwan University No. 1 Sec. 4 Roosevelt Road, Taipei 106, Taiwan Tel: 886-2-3366-4536 Fax: 886-2-2826-3374 Email: yukijuan@ntu.edu.tw or yukijuan@gmail.com

EDUCATION

1994 – 1999	Ph.D. at Graduate Institute of Biochemical Sciences, National Taiwan
	University (NTU), Taiwan (Advisor: Prof. Shyh-Horng Chiou 邱式鴻 & Prof.
	Kung-Tsung Wang 王光燦)
1992 – 1994	M.S. at Graduate Institute of Botany, NTU, Taiwan (Advisor: Prof. Yih-Ming
	Chen 陳益明 & Prof. Chu-Yung Lin 林秋榮)
1988 - 1992	B.S. at Department of Botany, NTU, Taiwan

CURRENT POSITION AND RELEVANT EXPERIENCE

2009/8 – now	Professor, Department of Life Science, Graduate Institute of Biomedical
	Electronics and Bioinformatics, Genome and Systems Biology Degree Program,
	Institute of Molecular and Cellular Biology, NTU, Taiwan.

- 2015/8 2017/7 Convener, Graduate Institute of Biomedical Electronics and Bioinformatics, NTU, Taiwan.
- 2008/8 2009/12 Leader of Technology Service Group, Center for Biotechnology, NTU, Taiwan.
- 2006/8 2009/7 Associate Professor, Department of Life Science, Institute of Molecular and Cellular Biology and Graduate Institute of Biomedical Electronics and Bioinformatics, NTU, Taiwan.
- 2007/8 2008/2 Visiting Professor, Department of Chemical and Biomolecular Engineering, University of California, Los Angeles, USA (Dr. James C. Liao 廖俊智).
- 2006/6 2007/3 Deputy Director, Center for Systems Biology and Bioinformatics, NTU, Taiwan.
- 2006/7 2006/8 Visiting Professor, Graduate School of Biological Sciences, Nara Institute of Science and Technology, Nara, Japan (Dr. Hirotada Mori 森浩禎).
- 2004/8 2006/7 Assistant Professor, Department of Life Science & Institute of Molecular and Cellular Biology, NTU, Taiwan.
- 2003/2 2004/7 Adjunct Assistant Professor, Department of Computer Science and Information Engineering, NTU, Taiwan.
- 2002/8 2004/7 Assistant Professor, Institute of Chemical Engineering, National Taipei University of Technology, Taiwan.

- 2001/8-2002/7 Postdoctoral Fellow, Institute of Biological Chemistry, Academia Sinica, Taiwan. (Dr. Shui-Tein Chen 陳水田)
- 2001/4 2001/7 Research Associate, Japan International Research Center for Agricultural Sciences, Japan.
- 2000/8 2001/3 Research Assistant, Japan International Research Center for Agricultural Sciences, Japan.

HONORS AND SPECIAL RECOGNITION RECEIVED

2018-2019 NTU Research Award

2017-2018 Ministry of Science and Technology (MOST) Award for Special Talents of the College 2015 Emerging Information and Technology Association (EITA) Service Award, USA

2015-2018 NTU Academic Performance Reward

2010-2015 Ministry of Science and Technology (MOST)/National Science Council (NSC) Award for Special Talents of the Colleges

2012 K. T. Li Breakthrough Award by Institute of Information and Computing Machinery (中華民國資訊學會李國鼎穿石獎)

2012 The Ph.D. Dissertation Advisor Award by Institute of Information and Computing Machinery (中華民國資訊學會最佳指導教授獎)

2012 Japan Society for the Promotion of Science (JSPS) Fellowship, Japan

2008 Taiwan's Ten Outstanding Young Persons (中華民國十大傑出青年 醫學研究類)

2010 NTU Excellent Paper Award

2006-2009, 2011-2014 NTU Distinguish Paper Award

2007 National Science Council Foreign Short Term Research Fellowship

2006 Ministry of Education (MOE) Overseas Research Fellowship

1999 Selected Oral Presentation in 14th Joint Annual Conference of Biomedical Sciences

1993 The membership in The Phi Tau Phi Scholastic Honor Society

1992-1994 Ministry of Education (MOE) Top 10% Excellent Master Student Scholarship

1992 Certificate in "Multi-Dimensional NMR Spectroscopy in Solution", Academia Sinica

1991-1992 The Chung-Cheng Scholarship

1992 The 1st Place at Department of Botany, NTU, Taiwan

1989-1992 National Taiwan University Presidential Award

1989-1992 The Scholarship for Talented Students in Mathematics and Natural Science

1988-1989 The Bursary and Excellence Scholarship

1989 The Thoughts of Dr. Sun Yat-Sen Scholarship

1985-1987 Talented Students in the Training Program for Biological Science in Academia Sinica 1985-1988 Talented Students in Mathematics Class of Taipei Municipal First Girls' Senior High School

PROFESSIONAL ACTIVITIES

Positions or services performed in international, eminent academic organizations or associations 2019-2021, Vice Chairman, 4th Taiwan Society of Evolution and Computational Biology 2017-2019, Vice Chairman, Taiwan Bioinformatics and Systems Biology Society 2018-2021, Executive council member, 1st Taiwan Society for Extracellular Vesicles 2017-2020, Executive council member, 6th Taiwan Proteomics Society 2017-2019, Executive council member, 3rd Taiwan Society of Evolution and Computational Biology 2015-present, Medicine and Health Advisor of Taipei City Government 2015-2017, Review Panelist, Department of Engineering and Technologies, Ministry of Science and Technology

2015-present, Managing Committee, The Emerging Information and Technology Association (EITA)-Emerging Information and Technology Conference (EITC), U.S.A.

2015-2018, Supervisor, 25th The Taiwan Society for Biochemistry and Molecular Biology

2015, Evaluation Committee of Institute of Bioinformatics and Biosignal Transduction, National Cheng Kung University

2015, Evaluation Committee of College of Biological Science and Technology, National Chiao Tung University

2015, Evaluation Committee of Graduate Institute of Systems Biology and Bioinformatics, National Central University

2014, Evaluation Committee of The Ph.D. Program for Translational Medicine, Taipei Medical University

2014-2017, Council member, 5th Taiwan Proteomics Society

2012-present, Review Committee, National Taiwan University Hospital-Research Ethics Committee 2012-2014, 2017-2018, Advisory Committee, Behavioral and Social Science Research Ethics Committee

2012-2014, Council member, 1st Taiwan Society of Evolution and Computational Biology

2012-2015, Council member, 24th The Taiwan Society for Biochemistry and Molecular Biology

2012, Evaluation Committee of the Ministry of Education (MOE) Science Classes

2011-2014, Council member, 4th Taiwan Proteomics Society

2010-2014, 2016-2017, Committee of Taiwan Olympiad

2009-2012, Council member, 23th The Taiwan Society for Biochemistry and Molecular Biology

2009-2016, Council member, Taiwan Bioinformatics and System Biology Society

2009, 2017 Committee for MOE Scholarship

2008-2010, Biology Committee in University Entrance Examination of MOE

2008-2011, Council member, 3rd Taiwan Proteomics Society

2007-2009, Council member, Taiwan Bioinformatics and System Biology Society

2007-Present, Committee, Bio-Physics: Softmatter, Biophysics and System Biology, National Center for Theoretical Sciences

2006-present, Committee Member, Asian Bioinformatics Research and Education Network (ABREN)

Other Professional Activities

- 1. Conference Organizer, The 2019 EITA Conference on New Materials, Nanotechnology, Healthcare, New Energy and Sustainable Smart Manufacturing (EITA-New Materials 2019), National Chiao-Tung University, Hsinchu, Taiwan.
- 2. Conference Organizer, The 2018 EITA Conference on Knowledge and Smart Technology (EITA Knowledge and Smart Technology 2018), Massachusetts Institute of Technology, Cambridge, U.S.A.
- 3. Conference Organizer, 2018 EITA Healthcare Innovation and Entrepreneurship Workshop (EITA-Healthcare Ventures 2018), Taipei Economic and Cultural Office in New York, New York, U.S.A.
- 4. Conference Organizer, EITA-New Materials 2017, University of Michigan, Ann Arbor, MI, U.S.A., July 1, 2017.
- 5. Chair and Organizing Committee, 2015 Asia-Pacific Symposium of Neuroblastoma, Taipei, Taiwan, November 14, 2015.

- 6. Chair and Organizing Committee, 2015 TPS Annual Meeting, Taoyuan, Taiwan, November 13-14, 2015.
- 7. General Chair, The 3rd The Emerging Information and Technology Association (EITA)-Bio Conference (the EITA-Bio 2015), Taipei, Taiwan, October 24-25, 2015.
- 8. Poster Award Committee, The 15th SCBA International Symposium, Taipei, Taiwan, June 26-29, 2015.
- 9. General Chair, 2014 TPS Translational and Systems Biology Symposium, Taipei, Taiwan, November 11-12, 2014.
- Chair in Technical Session D1-W3-T2: Medicine and Life Sciences, Biomaterials, Biomedical Sciences and Engineering, The 2014 EITA Conference on New Media and Biomedical Research, Massachusetts Institute of Technology, Cambridge, MA, U.S.A., July 31-August 1, 2014.
- 11. Chair in parallel session A4 basic research (high throughput techniques), Advances in neuroblastoma research (ANR), Cologne, Germany, May 13-16, 2014.
- 12. Reviewer, Advances in neuroblastoma research (ANR), Cologne, Germany, May 13-16, 2014.
- 13. The Technical Program Committee, 2012 International Conference on Biomedical Engineering and Biotechnology (iCBEB), Wuhan, China, October 11-13, 2013.
- 14. Program Committee, ISCB-Asia/SCCG 2012, Shenzhen, China, December 20-21, 2012.
- 15. Local Organizing Chair, The 6th IECA Conference 2012 Synthetic Biology with Applications to Biotechnology, Taipei, Taiwan, December 10-12, 2012.
- 16. Co-Chair, The 12th Emerging Information and Technology Conference (EITC), Toronto, Ontario, Canada, August 16-17, 2012.
- 17. The Technical Program Committee, 2012 International Conference on Biomedical Engineering and Biotechnology (iCBEB), Macau, May 28-30, 2012.
- 18. Organization Committee, Mini-Symposium on Microbial Systems Biology, Taipei, Taiwan, May 1, 2012.
- Committee Member, IAENG International Conference on Bioinformatics (ICB'12), Hong Kong, March 14-16, 2012
- 20. Taiwan Mirror Organizing Chair, The 5th Virtual Training Workshop on Bioinformatics, December 2010-January, 2011.
- 21. Organization Committee, 2011 Systems Biology and Bioinformatics Symposium (SBBS), Hsinchu, Taiwan, Nov. 9-10, 2011.
- 22. Program Committee, 2nd Workshop on Biological Processes and Petri Nets (BioPPN 2011), Newcastle upon Tyne, United Kingdom, June 20-24, 2011.
- 23. Committee Member, IAENG International Conference on Bioinformatics (ICB'11), Hong Kong, March 16-18, 2011
- 24. Program Committee, 2011 Translational Medicine Conference and Taiwan Proteomics Society Annual Symposium, Taipei, Taiwan, April 27-28, 2011.
- 25. Taiwan Mirror Organizing Chair, The 4th Virtual Training Workshop on Bioinformatics, Sep-Nov, 2010.
- 26. Organization Committee, The 2010 Systems Biology and Bioinformatics Symposium (SBBS), Hsinchu, Taiwan, Nov 04-05, 2010.
- 27. Committee Member, IAENG International Conference on Bioinformatics (ICB'10), Hong Kong, March 17-19, 2010
- 28. Program Committee, 10th Workshop on Molecular Biology and Biotechnology organized for Association of East Asian Research Universities (AEARU), Nov. 11-13, 2009.
- 29. Taiwan Mirror Organizing Chair, The 3rd Virtual Training Workshop on Bioinformatics, April-June, 2009.

- 30. Program Committee Member, The IAENG International Conference on Bioinformatics (ICB'09), Hong Kong, March 18-20, 2009.
- 31. Program Committee Member, 2008 Workshop of Medical and Bio-Informatics, Taipei County, Taiwan, November 13-15, 2008.
- 32. Program Committee Member, The IAENG International Conference on Bioinformatics (ICB'08), Hong Kong, March 19-21, 2008.
- 33. Program Organizer, Plant Proteomics, Taichung, Taiwan, May 17-18, 2008.
- 34. Workshop Chair, The Second Virtual Training Workshop on Bioinformatics, June-August, 2007.
- 35. Meeting Chair and Organizer, 2007 Systems Biology and Bioinformatics Symposium, Taipei, Taiwan, March 27-29, 2007.
- 36. Program Committee Member, The IAENG International Conference on Bioinformatics (ICB'07), Hong Kong, March 21-23, 2007.
- 37. Local Organizing Committee, 7th Frontier Science Symposium, Taipei, Taiwan, November 23-26, 2006
- 38. Chairman, session on "Bioinformatics", The sixth annual Emerging Information Technology Conference (EITC-06), Dallas, USA, August 10-12, 2006.
- 39. Co-founder of Center for Systems Biology and Bioinformatics, NTU, Taipei, Taiwan, June 2006.
- 40. Taiwan Mirror Organizing Chair, The First Virtual Training Workshop on Bioinformatics, May-July, 2006.
- 41. Session Chairman, The Fourth Asia Pacific Bioinformatics Conference, Taipei, Taiwan, February 13-16, 2006.
- 42. Organization Committee Co-Chair, The Fourth Asia Pacific Bioinformatics Conference, Taipei, Taiwan, February 13-16, 2006.
- 43. Chair and Organizer, Workshop on Protein Mass Analysis, Taipei, Taiwan, February 21-23, 2005.
- 44. Chair and Organizer, Systems Biology and Bioinformatics Symposium, Taipei, Taiwan, March 29-31, 2005.
- 45. Chair and Organizer, High Content Proteomics Workshop, Taipei, Taiwan, Sep. 13, 2005.
- 46. Co-chair and Organizer, Rare Diseases, Trinucleotide Repeat Expansion Disorders, and Biotechnology Symposium and Workshop, Taipei, Taiwan, March 25-27, 2004.
- 47. Co-chair and Organizer, Systems biology Symposium and Workshop, Taipei, Taiwan, April 15-17, 2003.
- 48. Co-chair and Organizer, Proteomics and Liver Disease Symposium, Taipei, Taiwan, April 18, 2002.

Editorial Services to Scholarly Publications

2015-Present, Editorial Board, Scientific Reports (Nature Publishing Group)

2015-Present, Academic Editorial Board, PeerJ Computer Science (PeerJ, Inc.)

2014-Present, Academic Editorial Board, PeerJ (PeerJ, Inc.)

2014-Present, Review Editorial Board, Stem Cell Treatments (Publisher Frontiers, joining Nature Publishing Group)

2014-Present, Editorial Board, Journal of Metabolomics & Systems Biology (Avens Publishing Group)

2014-Present, Editorial Board, Computational and Mathematical Methods in Medicine (Hindawi Publishing Corporation)

2008-2014, Editorial Board, The Open Proteomics Journal (Bentham Open)

Membership in international, eminent academic organizations or associations 2014-present, Member, Asian Federation of Biotechnology (AFOB) 2014-present, Member, American Society for Biochemistry and Molecular Biology (ASBMB) 2009-Present, Member, American Association for the Advancement of Science (AAAS) 2006-Present, Member, American Chemical Society 2004-Present, Member, Taipei Biotech Association 2002-Present, Member, The Taiwan Society for Biochemistry and Molecular Biology 1995-Present, Member, Institute of Information and Computing Machinery 1994-Present, Member, The Botanical Society of Republic of China

Reviewer

Journals:

- 1. Molecular and Cellular Proteomics (2006)
- 2. Proteomics (2008)
- 3. Drug Discovery Today (2008)
- 4. BMC Bioinformatics (2008, 2009, 2010, 2011, 2012, 2013, 2014)
- 5. Gynecologic Oncology (2009)
- 6. International Journal of Integrative Biology (2009)
- 7. OMICS: A Journal of Integrative Biology (2012)
- 8. Journal of Proteome Research (2011, 2012)
- 9. Bioorganic & Medicinal Chemistry (2010)
- 10. PLoS ONE (2011, 2012, 2013, 2014)
- 11. Environmental and Experimental Botany (2011)
- 12. Translational Oncology (2011)
- 13. Disease Markers (2010)
- 14. Journal of Proteomics (2011, 2012)
- 15. BMC Complementary and Alternative Medicine (2011)
- 16. African Journal of Agricultural Research (2011)
- 17. Clinical and Developmental Immunology (2011)
- 18. Molecular Biosystems (2012)
- 19. International Journal of Medical Sciences (2012)
- 20. Evidence-Based Complementary and Alternative Medicine (2012)
- 21. Chemical Research in Toxicology (2012)
- 22. Expert Opinion On Drug Discovery (2012)
- 23. PLoS Computational Biology (2012)
- 24. BMC Gastroenterology (2012)
- 25. BMC Systems Biology (2012, 2013)
- 26. Protein Engineering, Design, and Selection (2012)
- 27. International Journal of Molecular Sciences (2013)
- 28. Journal of Biomedical Science (2013, 2014, 2016)
- 29. FEBS Letters (2013)
- 30. Medicinal Chemistry (2013)
- 31. Bioinformatics (2013, 2014)

- 32. Journal of Cancer Research and Clinical Oncology (2013)
- 33. Archives of Biochemistry and Biophysics (2013, 2014)
- 34. Chinese Medicine (2013)
- 35. Environmental Toxicology and Pharmacology (2013)
- 36. Cell Proliferation (2014)
- 37. BMC Bioinformatics (2014)
- 38. BMC Genomics (2014)
- 39. Journal of Hematology & Oncology Editorial (2014)
- 40. Journal of Metabolomics & Systems Biology (2014)
- 41. Experimental Cell Research (2014)
- 42. Pathology Research and Practice (2014)
- 43. Tumor Biology (2014)
- 44. Mathematical Biosciences and Engineering (2015)
- 45. Food Chemistry (2015)
- 46. Scientific Reports (2015, 2016)
- 47. Food and Function (2015)
- 48. Methods (2016)
- 49. RNA (2016)
- 50. IEEE Transactions on Knowledge and Data Engineering (2017)
- 51. Journal of Biomedical Science (2017, 2018, 2019)
- 52. Journal of Proteome Research (2017)
- 53. PLoS ONE (2017)
- 54. BMC Cancer (2017)
- 55. Journal of Cancer Research and Clinical Oncology (2017)
- 56. Bioinformatics (2018)
- 57. Frontiers in Physiology (2018)
- 58. Journal of Biomedical Science (2018)
- 59. Molecular Therapy (2018)
- 60. Bioinformatics (2019)
- 61. Theranostics (2019)

Books:

- 1. John Wiley & Sons: Microwave-assisted Methods for Protein Characterization
- 2. John Wiley & Sons: Cellular Bioprocess Technology

Proposals:

- 1. 2019, Plan Cancer, "Interdisciplinary approaches to oncogenic processes and therapeutic perspectives: Contributions to oncology of physics, chemistry and engineering sciences." organized by ITMO Cancer of the French National Alliance for Life and Health Sciences (AVIESAN) jointly with the French National Cancer Institute (INCa), France
- 2. 2019, Research Grant Council (RGC) of Hong Kong, China
- 3. 2018, Research Grant Council (RGC) of Hong Kong, China
- 4. 2017, Plan Cancer/System Biology, Cancer TMOI of the French National Alliance for Life and Health Sciences (AVIESAN) jointly with the French National Cancer Institute (INCa), France
- 5. 2017, Research Grant Council (RGC) of Hong Kong, China

- 6. 2016, Collaborative Research Fund (CRF) of Research Grant Council (RGC) of Hong Kong, China
- 7. 2015, The Biology & Medicine Panel of Research Grant Council (RGC) of Hong Kong, China
- 8. 2015, The Engineering Panel of Research Grant Council (RGC) of Hong Kong, China
- 9. 2015, King Fahd University of Petroleum and Minerals, Dhahran Saudi Arabia
- 10. 2014, King Fahd University of Petroleum and Minerals, Dhahran Saudi Arabia
- 11. 2014, The Research Council of Oman, Sultanate of Oman
- 12. 2014, The Engineering Panel of Research Grant Council (RGC) of Hong Kong, China
- 13. 2013, The Biology & Medicine Panel of Research Grant Council (RGC) of Hong Kong, China
- 14. 2013, Far Eastern Memorial Hospital, Taipei, Taiwan
- 15. 2013, National Central University, Taiwan
- 16. 2013, National Center for High-performance Computing, Hsin-Chu, Taiwan
- 17. 2012-2013, Yen Tjing Ling Medical Foundation, Taipei, Taiwan
- 18. 2012, South African Medical Research Council, South Africa
- 19. 2012, Projects of National Cheng Kung University, Taiwan
- 20. 2012, Collocation Projects between Chang Gung Hospital and National Tsing Hua University, Taiwan
- 21. 2010, The Israel Science Foundation's FIRST (Focal Initiatives in Research in Science and Technology) program, Israel
- 22. 2010, Projects of National Tsing Hua University, Taiwan
- 23. 2009, Thematic Project, Academia Sinica, Taiwan
- 24. 2008, Reexamination Committee, National Science Council, Taiwan
- 25. 2003-present, Ministry of Science and Technology (MOST)/National Science Council (NSC), Taiwan

RESEARCH SUPPORT

- 1. Integrative genome editing and multi-layer omics approaches to explore the molecular function of long non-coding RNA SNHG1 in high-risk neuroblastoma, 2019/1/1-2019/12/31, NTUT (PI)
- 2. Expression-based combinatorial therapeutic discovery in high-risk neuroblastoma, 2018/1/1-2020/12/31, NHRI (PI)
- 3. Coordinate regulation of immune evasion in lung tumor microenvironment by Rab37 in infiltrating immune cells and WDR4 in tumor cells, 2017/8/1-2020/7/31, MOST (Co-PI)
- Role of ectopic ATP synthase in cell-cell communications mediated by extracellular vesicles, 2017/8/1-2020/7/31, MOST (PI)
- 5. Elucidating the interplay of phosphorylation and acetylation dynamics in ectopic ATP synthase trafficking by proteomics approaches, 2016/8/1-2019/7/31, MOST (PI)
- 6. Integrative platform for big biomedical sequence data and disease association, 2016/7/1-2017/8/31, MOST (PI)
- Systems biology approach for key lncRNAs in neuroblastoma, 2016/1/1-2016/12/31, Translational Medicine Piloted Model Cooperation Projects of National Taiwan University Medical Campus and College of Life Science (PI)
- 8. Drug repositioning for neuroblastoma therapy: investigation of the mechanism of action, 2016/1/1-2016/12/31, NTUH (PI)
- 9. MicroRNA-mediated regulatory network driven by MYCN in neuroblastoma, 2015/1/1-2015/12/31, NTUH (PI)
- 10. Systems biology approach and integrative platform for transcription and protein interaction

network discovery: using novel oncoprotein ZNF322A as a model: Project II Studying protein interaction networks and signal pathways of novel oncoprotein ZNF322A, 2013/8/1-2016/7/31, Interdisciplinary Integrated Research Project, NSC/MOST (PI)

- 11. Elucidating the response pathways of ectopic ATP synthase by combining proteomics and network biology, 2013/8/1-2016/7/31, Project for Excellent Junior Research Investigators, NSC/MOST (PI).
- 12. Integrative omics and network study of miRNA regulation in cancer progression, 2011/8/1-2015/12/31, National Taiwan University Cutting-Edge Steering Research Project, NTU (PI).
- 13. Development of 1~10 μm narrow-band high power infrared light source with applications in Si-photonics, biotechnology and cancer therapy, 2011/8/1-2014/7/31, National Research Program for Nanoscience and Technology (Academic Excellence Research), NSC (Co-PI)
- 14. Applying systems biology for anti-lung cancer drug discovery: targeting therapy by ATP synthase inhibitors and molecular mechanism study (3/3), 2011/5/1-2012/4/30, National Research Program for Genomic Medicine, NSC (PI)
- 15. Evolution and functions of microRNAs that regulate ATP synthase subunit genes, 2010/8/1-2013/7/31, NSC (PI)
- 16. Elucidating the role of miR-148a in tumor suppression, 2010/8/1-2011/7/31, NTU (PI)
- 17. Elucidating the molecular mechanism of ATP synthase inhibitors on apoptosis of breast cancer cells, 2009/8-2010/7, NTU (PI)
- 18. Applying systems biology for anti-lung cancer drug discovery: targeting therapy by ATP synthase inhibitors and molecular mechanism study, 2009/05-2011/4, National Research Program for Genomic Medicine, DOH (PI)
- 19. Gene network of host cell by Helicobacter: annexin A4 involved singalling and regulation in gastric Cancer, 2008/8-2011/7, NSC (PI)
- 20. Pilot Research Program of Computational Biology, 2008/4/1-2009/3/31, NSC (Co-PI)
- 21. Role of 14-3-3 beta protein in metastasis of gastric cancer and its association with clinical outcomes, 2007/8-2010/7, NSC (Co-PI)
- 22. Systems and Computational Biology of *Rhodopseudomonas palustris* Aimed for Bioenergy Application, 2007/8-2010/7, NSC (PI)
- 23. Molecular Mechanism of Annexin A4 in Carcinogenesis of Gastric Cancer, 2007/8-2008/7, NSC (PI)
- 24. Systems-biology study of a novel compound on cancer cells, 2006/9-2008/8, NTU (PI)
- 25. In Silico Study of RNA-binding Proteins, 2006/8-2007/7, NSC (Co-PI)
- 26. Development of an information retrieval and text mining system to study the relationships among genes, methylation and diseases, 2006/8-2007/7, NSC (PI)
- 27. The Immuno-functions of Carbohydrates, Thematic project, Academia Sinica, 2004/1/1-2007/12/31 (Co-PI)
- 28. Development of gene network modeling methods to study the differentiation of HL-60 cancer cells to macrophages, 2004/11-2005/7, NSC (Co-PI)
- 29. Development of highly potent and optimal RGD mimetic peptides drugs by computer-aided drug design and new peptide synthesis methods, 2003/8-2004/7, NSC (Co-PI)
- 30. Development of Open Bioinformatics Software to Uncover the Mechanism of TPA-induced Differentiation from Leukemia Cells to Macrophages, 2003/5-2006/7, National Research Program for Genomic Medicine, NSC (PI)
- 31. Systems Biology Study of RGD-containing Proteins, 2002/11-2003/7, NSC (PI)

PUBLICATIONS

<u>Journal Papers (*corresponding author)</u>

- 1. Chang, H.-C., Huang, H.-C., <u>Juan, H.-F.</u>*, Hsu, C.-L* (2019) "Investigating the role of super-enhancer RNAs underlying embryonic stem cell differentiation" *BMC Genomics* (Accepted).
- Cheung, H. Y. C., Hsu, C.-L., Tsuei, C.-Y., Kuo, T.-T., Huang, C.-T., Hsu, W.-M., Chung, Y.-H., Wu, H.-Y., Hsu, C.-C., Huang, H.-C.*, <u>Juan, H.-F.</u>* (2019) "Combinatorial targeting of MTHFD2 and PAICS in purine synthesis as a novel therapeutic strategy" *Cell Death and Disease* (In press).
- Hsieh, C.-H., Cheung, C. H. Y., Liu, Y.-L., Hou, C.-L., Hsu, C.-L., Huang, C.-T., Yang, T.-S., Chen, S.-F., Chen, C.-N., Hsu, W.-M.*, Huang, H.-C.*, Juan, H.-F.* (2019) "Quantitative proteomics of Th-MYCN transgenic mice reveals aurora kinase inhibitor altered metabolic pathways and enhanced ACADM to suppress neuroblastoma progression" *Journal of Proteome Research* Oct 11. doi: 10.1021/acs.jproteome.9b00245.
- Wu, P.-Y., Yu, I-S., Lin, Y.-C., Chang, Y.-T., Chen, C.-C., Lin, K.-H., Tseng, T.-H., Kargren, M., Tai, Y.-L., Shen, T.-L., Liu, Y.-L., Wang, B.-J., Chang, C.-H., Chen, W.-M., Juan, H.-F., Huang, S.-F., Chan, Y.-Y., Liao, Y.-F., Hsu, W.-M., Lee, H. (2019) "Activation of aryl hydrocarbon receptor by kynurenine impairs progression and metastasis of neuroblastoma" *Cancer Research* Aug 20. pii: canres.3272.2018. doi: 10.1158/0008-5472.CAN-18-3272.
- Huang, C.-T., Hsieh, C.-H., Lee, W.-C., Liu, Y.-L., Yang, T.-S., Hsu, W.-M., Oyang, Y.-J., Huang, H.-C.^{*}, Juan, H.-F.^{*} (2019) "Therapeutic targeting of non-oncogene dependencies in high-risk neuroblastoma" *Clinical Cancer Research* 25(13):4063-4078.
- Huang, C.-T., Hsieh, C.-H., Chung, Y.-H., Oyang, Y.-J., Huang, H.-C.*, <u>Juan, H.-F.</u>* (2019) "Perturbational gene-expression signatures for combinatorial drug discovery" *iScience* 15:291-306 (Cell Press).
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Yang, T.-S., Yeh, T.-T., Chen, S.-F., Hsu, W.-M., Huang, H.-C., and <u>Juan, H.-F.</u>^{*} "Phamacoproteomics reveals the pan-Aurora kinase inhibitor tozasertib as a potential therapeutic drug for Mycn-amplified neuroblastoma" *15th Human Proteome Organization World Congress (HUPO 2016)*, Taipei, Taiwan, September 18-22, 2016.

- Wang, W.-H., Hsu, C.-L., Huang, H.-C., and <u>Juan, H.-F.</u>* "Quantitative phosphoproteomic analysis reveal cyclic stretch-induced pathways in human lung cancer and normal cells" *15th Human Proteome Organization World Congress (HUPO 2016)*, Taipei, Taiwan, September 18-22, 2016.
- 48. Hou, C.-L.[#], Hsieh, C.-H.[#], Huang, C.-T., Cheung, H.-Y. C., Chen, K.-P., Hsu, C.-L., Liu, Y.-L., Yang, T.-S., Yeh, T.-T., Chen, S.-F., Hsu, W.-M., Huang, H.-C., and Juan, H.-F.^{*} "The pan-Aurora kinase inhibitor tozasertib as a repurposed drug for Mycn-amplified neuroblastoma" *31th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 26-27, 2016. ([#]equal contribution) (Poster Award)
- 49. Wang, W.-H., Huang, H.-C., and <u>Juan, H.-F.</u>^{*} "Quantitative phosphoproteomic analysis reveal cyclic stretch-induced pathways in human lung cancer cells" *31th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 26-27, 2016. (Poster Award)
- 50. Hsieh, C.-H., Hou, C.-L., Huang, C.-T., Hsu, W.-M., Huang, H.-C., and <u>Juan, H.-F.</u>* "The role of PHGDH in high-risk neuroblastoma" *31th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 26-27, 2016.
- 51. Cheng, N., Huang, H.-C., and Juan, H.-F.^{*} "The trafficking pathways of ectopic ATP synthase from mitochondria to cell surface" *31th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 26-27, 2016.
- 52. Chen, X.-J., Chang, H.-Y., Huang, H.-C., and <u>Juan, H.-F.</u>^{*} "Temporal phosphoproteome dynamics reveals the role of ATP synthase inhibitor citreoviridin in gefitinib-resistant lung cancer cells" *31th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 26-27, 2016.
- 53. Lin, T.-Y., Chen, W.-T., Lin, L.-L., Huang, H.-C., and <u>Juan, H.-F.</u>* "Integrative quantitative proteomic and phosphoproteomic analyses to reveal the regulatory role of ZNF322A" BIT2016 and Kyutech-NYMU Joint Symposium for Biomedical Informatics & Biotechnology, Taipei, Taiwan, March 3-4, 2016. (Poster Competition 1st Prize)
- 54. Chen, Y.-P., Hsu, C.-L., Huang, H.-C., and Juan, H.-F.* "Computational methods for identification of lncRNAs interacting with MYCN in neuroblastoma" BIT2016 and Kyutech-NYMU Joint Symposium for Biomedical Informatics & Biotechnology, Taipei, Taiwan, March 3-4, 2016. (Poster Competition 3rd Prize)
- Tu, Y.-H., Juan, H.-F. and Huang, H.-C.* "Identification of cell states using super-enhancer RNA" BIT2016 and Kyutech-NYMU Joint Symposium for Biomedical Informatics & Biotechnology, Taipei, Taiwan, March 3-4, 2016. (Poster Competition Honorable Mention)
- 56. Hsu, C.-L., Chang, H.-Y., Chang, J.-Y., Huang, H.-C.*, and <u>Juan, H.-F.</u>* "Unveiling MYCN regulatory network in nueroblastoma by integrative analysis of heterogeneous genomics data" 2015 Asia-Pacific Symposium of Neuroblastoma, Taipei, Taiwan, November 14, 2015. (Best Poster Award)
- 57. Sahu, D., Hsu, C.-L., Juan, H.-F., and Huang, H.-C.^{*} "lncRNA co-expression network in neuroblastoma" 2015 Asia-Pacific Symposium of Neuroblastoma, Taipei, Taiwan, November 14, 2015. (Best Poster Award)
- 58. Huang, C.-T., Oyang, Y.-J., Huang, H.-C.*, and Juan, H.-F.* "Integrative genomics analyses reveal aberrant nucleotide and amino acid metabolism in high-risk neuroblastoma" 2015

Asia-Pacific Symposium of Neuroblastoma, Taipei, Taiwan, November 14, 2015.

- 59. Yin, C.-F., Kao, S.-C., Lin, L.-L., Huang, H.-C.^{*}, and <u>Juan, H.-F.^{*}</u> "Phosphoproteome dynamics unveil key response signaling in Tanshinone IIA-treated gastric cancer cells" 2015 TPS Annual Meeting, Taoyuan, Taiwan, November 13-14, 2015.
- Cheung, H. Y. C., Chong, S.-T., Chen, K.-P., Huang, H.-C.*, and <u>Juan, H.-F.*</u> "Integrative quantitative proteomics and phosphoproteomics reveal key protein phosphorylation by MCM2 in lung cancer" 2015 TPS Annual Meeting, Taoyuan, Taiwan, November 13-14, 2015. (Best Poster Award)
- Sahu, D., Hsu, C.-L., Juan, H.-F., and Huang, H.-C.* (2015) "lncRNAs co-expression network in neuroblastoma" The 3rd The Emerging Information and Technology Association (EITA)-Bio Conference (the EITA-Bio 2015), Taipei, Taiwan, October 24-25. (Best Poster Award)
- 62. Cheung, H. Y. C., Chong, S.-T., Chen, K.-P., Huang, H.-C.^{*}, and <u>Juan, H.-F.^{*}</u> "Integrative quantitative proteomics and phosphoproteomics reveal key protein phosphorylation by MCM2 in lung cancer" The 3rd The Emerging Information and Technology Association (EITA)-Bio Conference (the EITA-Bio 2015), Taipei, Taiwan, October 24-25, 2015.
- 63. Yin, C.-F., Kao, S.-C., Lin, L.-L., Huang, H.-C.^{*}, and <u>Juan, H.-F.^{*}</u> "Phosphoproteome dynamics unveil key response signaling in Tanshinone IIA-treated gastric cancer cells" The 3rd The Emerging Information and Technology Association (EITA)-Bio Conference (the EITA-Bio 2015), Taipei, Taiwan, October 24-25, 2015.
- 64. Huang, C.-T., Oyang, Y.-J., Huang, H.-C.^{*} and <u>Juan, H.-F.^{*}</u> "MicroRNA-mediated networks underlie immune response regulation in papillary thyroid carcinoma" *The 74th Annual Meeting of the Japanese Cancer Association*, Nagoya, Japan, October 8-11, 2015. (**Travel Grant Award**)
- 65. Tsuei, C.-Y., Kuo, T.-T., Hsu, C.-L., Huang, C.-T., Chang, H.-Y., Chang, J.-Y., Hsieh, C.-H., Huang, H.-C.* and <u>Juan, H.-F.</u>* "Integrative omics analysis reveals the importance of one-carbon metabolism in neuroblastoma progression" *The 20th Biophysics Conference*, Taipei, Taiwan, May 11-13, 2015.
- 66. Kao, S.-C., Hu, C.-W., Lin, L.-L., Huang, H.-C.* and <u>Juan, H.-F.*</u> "Temporal phosphoproteome dynamics reveal response pathways of Tanshinone IIA in gastric cancer AGS cells" *30th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 21-22, 2015. (Poster Award)
- 67. Kuo, T.-T., Tsuei, C.-Y., Huang, C.-T., Hsu, C.-L., Chang, H.-Y., Huang, H.-C.* and <u>Juan</u>, <u>H.-F.*</u> "The role of MTHFD2 in neuroblastoma progression" *30th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 21-22, 2015. (Poster Award)
- 68. Wei-Ting Chen, Hu, C.-W., Lin, L.-L., Hsu, C.-L., Huang, H.-C.* and <u>Juan, H.-F.*</u> "Quantitative phosphoproteome analysis reveals the signaling pathways downstream of transcription factor ZNF322A in human lung cancer cells" *30th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 21-22, 2015. (Poster Award)
- Jen, J., Liao, S.-Y., Chen, H.-T., Lo, F.-Y., Su, W.-C., Salgia, R., <u>Juan, H.-F.</u>, Wang, Y.-C.^{*} "Oncoprotein ZNF322A transcriptionally deregulates alpha-adducin, cyclin D1 and p53 to promote tumor growth and metastasis in lung cancer" *30th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 21-22, 2015. (Poster Award)
- Liao, S.-Y., Lin, C.-H., Hu, C.-W., Chiang, C.-W., Juan, H.-F., Wang, Y.-C.* "GSK3 beta/CK1 delta/FBW7 signaling promotes ZNF322A oncoprotein degradation in lung cancer" *30th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 21-22, 2015. (Oral Presentation 1st Prize Award)

- 71. Chong, S.-T., Hu, C.-W., Lin, L.-L., Huang, H.-C.* and <u>Juan, H.-F.*</u> "Quantitative phosphoproteomic analysis uncovers the regulatory networks by of minichromosome maintenance protein 2 in lung cancer cells" *30th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 21-22, 2015.
- 72. Tsuei, C.-Y., Kuo, T.-T., Hsu, C.-L., Huang, C.-T., Chang, H.-Y., Chang, J.-Y., Huang, H.-C.^{*} and <u>Juan, H.-F.</u>^{*} "Integrated analyses of ChIP-seq and gene expression profiles reveal E2F3 and PAICS as the MYCN downstream targets in neuroblastoma" *30th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 21-22, 2015.
- 73. Jen, J., Lin, L.-L. Chen, H.-T., Liao, S.-Y., Lo, F.-Y., Tang, Y.-A., Su, W.-C., Salgia, R., Hsu, C.-L. Huang, H.-C., <u>Juan, H.-F.</u>, Wang, Y.-C.* "Oncoprotein ZNF322A transcriptionally deregulates alpha-adducin, cyclin D1 and p53 to promote tumor growth and metastasis in lung cancer" *The Twenty-second Symposium on Recent Advances in Cellular and Molecular Biology*, Kenting, Taiwan, Feb. 4-6, 2015. (2nd Prize Award of Chien-Tien Hsu Foundation)
- 74. Liao, S.-Y., Hu, C.-W., Chiang, C.-W., Juan, H.-F., Wang, Y.-C.* "GSK3β/CK18/FBW7 signaling promotes ZNF322A oncoprotein degradation in lung cancer" *The Twenty-second Symposium on Recent Advances in Cellular and Molecular Biology*, Kenting, Taiwan, Feb. 4-6, 2015.
- 75. Huang, C.-T., Oyang, Y.-J., Huang, H.-C.^{*} and **Juan, H.-F.**^{*} "MicroRNA-mediated networks underlie immune response regulation in papillary thyroid carcinoma" *TPS2014 Translational and Systems Biology Symposium*, Taipei, Taiwan, November 11-12, 2014. (**Poster Award**)
- 76. Yu, W.-H., Wang, Y.-C., Juan, H.-F.* and Huang, H.-C.* "Network-based identification and stratification of lncRNA modulation network with ceRNA hypothesis" *TPS2014 Translational and Systems Biology Symposium*, Taipei, Taiwan, November 11-12, 2014. (Poster Award)
- 77. Lu, P.-C., Hsu, C.-L., Wu, C.-H., <u>Juan, H.-F.</u>^{*} and Huang, H.-C.^{*} "Lncin: Identifying IncRNA-modulated protein–protein interaction networks" *TPS2014 Translational and Systems Biology Symposium*, Taipei, Taiwan, November 11-12, 2014. (**Poster Award**)
- 78. Chen, W.-T., Hu, C.-W., Lin, L.-L., Huang, H.-C.* and <u>Juan, H.-F.*</u> "Quantitative phosphoproteome analysis of ZNF322A in human lung adenocarcinoma A549 cells" *TPS2014 Translational and Systems Biology Symposium*, Taipei, Taiwan, November 11-12, 2014.
- 79. Wang, J.-K., Hsu, C.-L., Huang, H.-C.* and <u>Juan, H.-F.*</u> "DynaPho: inferring signaling dynamics from phosphoproteomics data" *TPS2014 Translational and Systems Biology Symposium*, Taipei, Taiwan, November 11-12, 2014. (Poster Award)
- 80. Chen, K.-P., Hsu, C.-L., Oyang, Y.-J., Huang, H.-C.^{*} and <u>Juan, H.-F.^{*}</u> "Exploring the relations between spinal muscular atrophy and amyotrophic lateral sclerosis by comparing condition-specific protein interaction networks" *TPS2014 Translational and Systems Biology Symposium*, Taipei, Taiwan, November 11-12, 2014.
- 81. Kao, S.-C., Hu, C.-W., Lin, L.-L., Huang, H.-C.^{*} and <u>Juan, H.-F.</u>^{*} "Temporal phosphoproteome dynamics reveal response pathways of tanshinone IIA in gastric cancer AGS cells" *TPS2014 Translational and Systems Biology Symposium*, Taipei, Taiwan, November 11-12, 2014.
- 82. Chong, S.-T., Hu, C.-W., Lin, L.-L., Huang, H.-C.* and <u>Juan, H.-F.*</u> "Quantitative phosphoproteomic analysis uncover the regulatory networks by minichromosome maintenance protein 2 in lung cancer cells" *TPS2014 Translational and Systems Biology Symposium*, Taipei, Taiwan, November 11-12, 2014.
- 83. Cheung, C. H. Y., Hu, C.-W., Huang, H.-C.*, Juan, H.-F.* "To reveal the roles of phosphorylated nuclear membrane protein Lamin B1 in lung cancer" *TPS2014 Translational and Systems Biology Symposium*, Taipei, Taiwan, November 11-12, 2014.

- Chang, H.-Y., Huang, T.-C., Chen, N.-N., Huang, H.-C.*, Juan, H.-F.* "Combination therapy targeting ectopic ATP synthase and 26S proteasome induces ER stress in breast cancer cells" *TPS2014 Translational and Systems Biology Symposium*, Taipei, Taiwan, November 11-12, 2014. (Poster Award)
- 85. Lu, P.-C., Hsu, C.-L., Wu, C.-H., Juan, H.-F.* and Huang, H.-C.* "Lncin: identifying lncRNA-modulated protein–protein interaction networks" *International Symposium on Evolutionary Genomics and Bioinformatics 2014 (ISEGB 2014)*, Tainan, Taiwan, November 7-8, 2014. (Best Poster Award)
- 86. Hsu, C.-L., Chang, H.-Y., Chang, J.-Y., Huang, H.-C.^{*}, and <u>Juan, H.-F.^{*}</u> (2014) "MicroRNA-mediated feed-forward regulation driven by MYCN in neuroblastoma" *The 73rd Annual Meeting of the Japanese Cancer Association*, Yokohama, Japan, September 25-27. (Travel Grant Award)
- Hu, C.-W., Hsu, C.-L., Wang, Y.-C., Ishihama, Y., Ku, W.-C., Huang, H.-C.*, and <u>Juan, H.-F.*</u> (2014) "Temporal phosphoproteome dynamics reveal response pathways of ectopic ATP synthase blockade" *The 73rd Annual Meeting of the Japanese Cancer Association*, Yokohama, Japan, September 25-27. (Travel Grant Award)
- Chen, C.-Y., Ho, A., Huang, H.-Y., <u>Juan, H.-F</u>^{*}. and Huang, H.-C.^{*} (2014) "Dissecting human protein-protein interaction network via phylogenetic decomposition" *15th International Conference on Systems Biology (ICSB2014)*, Melbourne, Australia, September 14–18. (Travel Award, Student bursary)
- Huang, H.-C.*, Hsu, C.-L., Chang, H.-Y., Chang, J.-Y., Hsu, W.-M., and <u>Juan, H.-F.</u>* (2014) "MicroRNA-mediated feed-forward regulation driven by MYCN in neuroblastoma" (POB154) *Advances in Neuroblastoma Research (ANR) Congress 2014*, May 13-16, 2014, Cologne, Germany.
- 90. Hu, C.-W., Hsu, C.-L., Wang, Y.-C., Ishihama, Y., Ku, W.-C., Huang, H.-C.*, and <u>Juan,</u> <u>H.-F.*</u> (2014) "Temporal phosphoproteome dynamics reveal response pathways of ectopic ATP synthase blockade" *The 19th Biophysics Conference*, Tainan, Taiwan, May 7-10. (Poster Award)
- Li, M.–H., Chang, S.-Y., Huang, T.-C., Tsai, S.-R., Lee, S.-C., Huang, H.-C., and <u>Juan, H.-F.</u>* (2014) "Anti-tumor effects of middle infrared radiation on breast cancer cells" (Abstract#P337) 29th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 15-16.
- 92. Ho, A., Chen, C.-Y., Huang, H.-C., and Juan, H.-F.^{*} (2014) "Phylogenetic Decomposition of Human MicroRNA regulatory network reveals coevolutionary regulation on mitochondrial pathways" (Abstract#P584) 29th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 15-16.
- 93. Huang, C.-J., Yang, G.-C., Lin, C.-C., <u>Juan, H.-F.</u>, and Huang, H.-C.^{*} (2013) "Identification of MicroRNA and transcription factor co-regulatory modules in primary breast cancer" 11th Symposium on Bioinformatics and Systems Biology in Taiwan (BIT2013), Taipei, Taiwan, October 18-21, 2013. (Honorable Mention)
- 94. Wu, Y.-H., Hu, C.-W., Chien, C.-W., Chen, Y.-J., Huang, H.-C.* and <u>Juan, H.-F.*</u> (2013) "Quantitative proteomic analysis of human lung tumor xenografts treated with the ectopic ATP synthase inhibitor citreoviridin" *The 12th Human Proteome Organisation World Congress* (*HUPO 2013*), Yokohama, Japan, September 14-18.
- 95. Hu, C.-W., Lin, M.-H., Huang, H.-C., Ku, W.-C., Yi, T.-H., Tsai, C.-F., Chen, Y.-J., Sugiyama, N., Ishihama, Y.*, Juan, H.-F.*, and Wu, S.-H.* (2013) "Phosphoproteomic analysis of *Rhodopseudomonas palustris* reveals the role of pyruvate phosphate dikinase phosphorylation in lipid production" *The 12th Human Proteome Organisation World Congress (HUPO 2013)*,

Yokohama, Japan, September 14-18. (Travel Award)

- 96. Hsu, C.-L., Chang, H.-Y., Chang, J.-Y., Huang, H.-C., and <u>Juan, H.-F.*</u> (2013) "Identification of miRNA-mediated feed-forward loops involving mycn as master regulator in neurblastoma" *The 7th Asia Young Researchers Conference on Computational and Omics Biology (AYRCOB* 2013), Tokyo, Japan, September 9-10. (Travel Award)
- 97. Chen, C.-Y., Ho, A., Huang, H.-Y., Juan, H.-F. and Huang, H.-C.* (2013) "Dissecting human protein-protein interaction network via phylogenetic decomposition" (Abstract#165) 14th International Conference on Systems Biology (ICSB2013), Copenhagen, Demark, August 30-September 3.
- 98. Hu, C.-W., Hsu, C.-L., Tsai, H.-T., Chen, C.-S., Huang, H.-C. and <u>Juan, H.-F.</u>* (2013) "Response pathways to ectopic ATP synthase inhibitor in lung cancer cells by combining phosphoproteomics and network biology" (Abstract#167) 14th International Conference on Systems Biology (ICSB2013), Copenhagen, Demark, August 30-September 3.
- 99. Chang, H.-Y., Huang, H.-C., Huang, T.-C., Yang, P.-C., Wang, Y.-C., and <u>Juan, H.-F.</u>* (2013)
 "Ectopic ATP synthase: a therapeutic marker on plasma membrane in lung adenocarcinoma" *The 18th Biophysics Conference*, Taipei, Taiwan, June 27-29. (1st prize)
- 100. Hsu, C.-L., Chang, H.-Y., Chang J.-Y., Huang, H.-C. and <u>Juan, H.-F.</u>* (2013) "Identification of miRNA-mediated feed-forward loops involving mycn as master regulator in neuroblastoma" *The 18th Biophysics Conference*, Taipei, Taiwan, June 27-29. (2nd prize)
- 101. Hsia, C.-R., Lin, L.-L. Huang, H.-C., <u>Juan, H.-F.</u>* (2013) "explore the molecular mechanism of Tanshinone IIA in gastric cancer cells by quantitative proteomic analysis" (Abstract #27) 2013 Taiwan Proteomics Society International Conference: Recent Advances in Translational Medicine, Taipei, Taiwan, May 24-25. (3rd prize)
- 102. Chang, H.-Y., Huang, H.-C., Huang, T.-C., Yang, P.-C.*, Wang, Y.-C.*, and <u>Juan, H.-F.</u>* (2013) "Proteome profiling identifies ATP synthase as a therapeutic biomarker on plasma membrane in lung adenocarcinoma" (Abstract#2) 2013 Taiwan Proteomics Society International Conference: Recent Advances in Translational Medicine, Taipei, Taiwan, May 24-25. (3rd prize)
- 103. Chang, H.-Y., Huang, H.-C., Huang, T.-C., Yang, P.-C.*, Wang, Y.-C.*, and Juan, H.-F.* (2013) "Ectopic ATP synthase: a therapeutic marker on plasma membrane in lung adenocarcinoma", *The Second NRPB International Symposium and Workshop for Membrane Proteins*, Taipei, Taiwan, May 21-23.
- 104. Hsu, K.-H., Chen, S.-K., Tseng, C.-W., Huang, H.-C., <u>Juan, H.-F.</u>* (2013) "RNA-seq profiling reveals the role of miR-148a in gastric cancer AGS cells" (Abstract#P469) 28th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 23-24. (Excellent Poster Award)
- 105. Hsia, C.-R., Lin, L.-L. Huang, H.-C., <u>Juan, H.-F.</u>* (2013) "Quantitative proteomic analysis reveals the mechanism of a potential anticancer drug Tanshinone IIA on the growth inhibition of gastric cancer cells" (Abstract#P461) 28th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 23-24.
- 106. Chang, H.-Y., Huang, H.-C., Huang, T.-C., Yang, P.-C., Wang, Y.-C., and Juan, H.-F. (2013) "Ectopic ATP synthase blockade suppresses lung adenocarcinoma growth by activating the unfolded protein response" *5th HOPE Meeting with Nobel Laureates*, Tokyo, Japan, Feb.26-Mar. 2, 2013. (Travel Award)
- 107. Hu, C.-W., Lin, M.-H., Huang, H.-C., Ku, W.-C., Yi, T.-H., Tsai, C.-F., Chen, Y.-J., Sugiyama, N., Ishihama, Y.*, <u>Juan, H.-F.</u>*, and Wu, S.-H.* (2012) "Phosphoproteomic analysis of *Rhodopseudomonas palustris* reveals the role of pyruvate phosphate dikinase phosphorylation in lipid production" *The 6th IECA on Synthetic Biology with Application to Biotechnology*,

Taipei, Taiwan, Dec. 10-12, 2012. (Selected Oral Presentation)

- 108. Yang, K.-C., Liao, H.-H., Lin, C.-C., Juan H.-F., Huang, H.-C.* (2012) "Mirin: identifying microrna regulatory modules in protein-protein interaction network" *The 10th Symposium on Bioinformatics and Systems Biology in Taiwan (BIT2012)*, Taipei, Taiwan, Oct. 19-21, 2012. (Poster Award)
- 109. Lin, L.-L., Chen, C.-N., Huang, H.-C.*, Juan, H.-F.* (2012) "Annexin A4, a gastric cancer marker, triggers a signaling cascade for cell proliferation" (Abstract#IS1-2) 71th Annual Meeting of the Japanese Cancer Association, Sapporo, Japan, September 19-21, 2012. (Travel Grant Award, Selected Oral Presentation)
- 110. Juan, H.-F.*, Chang, H.-Y., Huang, T.-C., Yang, P.-C., Wang, Y.-C., Huang, H.-C. (2012) "Blocking ectopic ATP synthase suppresses lung adenocarcinoma cell growth by activating unfolded protein response" (Abstract#280) *The 13th International Conference on Systems Biology*, Toronto, Canada, Aug. 19-23.
- 111. Hu, C.-W., Cheng, C.-C., Chiu, W.-C., Ishihama, Y., Huang, H.-C., Juan, H.-F.^{*} (2012)
 "Quantitative phospho-proteomics to investigate the signaling pathways by targeting membrane protein ATP synthase" (Abstract#35) 2012 Taiwan Proteomics Society Annual Conference: Disease Proteomics and Metabolomics, Kaohsiung Medical University, Kaohsiung, Taiwan, May 31-June 1.
- 112. Ko, S.-Y., Hu, C.-W., Huang, H.-C., <u>Juan, H.-F.</u>* (2012) "Brassinosteroid-regulated phosphoproteome in *Arabidopsis thaliana*" (Abstract#32) 2012Taiwan Proteomics Society Annual Conference:Disease Proteomics and Metabolomics, Kaohsiung Medical University, Kaohsiung, Taiwan, May 31-June 1.
- 113. Hu, C.-W., Cheng, C.-C., Chiu, W.-C., Ishihama, Y., Huang, H.-C., <u>Juan, H.-F.</u>* (2012)
 "Quantitative phospho-proteomics to investigate the signaling pathways by targeting membrane protein ATP synthase" (Abstract# P6-017) *The 17th Biophysics Conference*, Taipei, Taiwan, May 23-25.
- 114. Tsai, H.-T., Chang, H.-Y., Chen, C.-S., Hsu, C.-H., Huang, H.-C., <u>Juan, H.-F.</u>* (2012) "Revealing novel interacting proteins of ATP synthase by human proteome microarray" (Abstract#P750) *The 27th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 17-18.
- 115. Ko, S.-Y., Hu, C.-W., Huang, H.-C., <u>Juan, H.-F.</u>* (2012) "Brassinosteroid-regulated phosphoproteome in *Arabidopsis thaliana*" (Abstract#P919) *The 27th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 17-18.
- 116. Tseng, C.-W., Chien, C.-W., Lin, C.-C., Chen, Y.-J., Lee, S.-J., Huang, H.-C., Juan, H.-F.* (2012) "Revealing new function of miR-148a using quantitative proteomics technique" (Abstract#P920) *The 27th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 17-18.
- 117. Chang, H.-Y., Huang, H.-C., Juan, H.-F.* (2011) "Targeting ecto-ATP synthase induces unfolded protein response, cell cycle arrest and growth inhibition in lung cancer" (Abstract#P-1124) 70th Annual Meeting of the Japanese Cancer Association, Nagoya, October 3-5, 2011. (Travel Grant Award)
- 118. Huang, T.-C., Chang, H.-Y., Chen, C.-Y., Wu, P.-Y., Lee, H., Liao, Y.-F., Hsu, W.-M.*, Huang, H.-C.*, Juan, H.-F.* (2011) "Silencing of miR-124 induces neuroblastoma SK-N-SH cell differentiation, cell cycle arrest and apoptosis through promoting AHR" (Abstract#P-1159) 70th Annual Meeting of the Japanese Cancer Association, Nagoya, Octoctber 3-5, 2011.
- 119. Kuo, T.-C., Lin, C.-C., Juan, H.-F., Huang, H.-C.* "Finding metastasis-related functional

modules in protein interaction network of breast cancer" The 9th Symposium on Bioinformatics and Systems Biology in Taiwan (BIT2011), Taipei, Taiwan, Sep. 28-30, 2011. (**The 1st prize**)

- 120. Lin, C.-C., <u>Juan, H.-F.</u>, Oyang, Y.-J., Fuh, C.-S., Huang, H.-C.* (2011) "Link clustering reveals biological contexts and functional modules in genetic interaction network of Saccharomyces cerevisiae" The 9th Symposium on Bioinformatics and Systems Biology in Taiwan (BIT2011) Taipei, Taiwan, Sep. 28-30, 2011. (Poster Award)
- 121. Liao, H.-H., Lin, C.-C., Juan, H.-F., Huang, H.-C.* (2011) "Integrative network analysis for defective microRNA-regulated functions in hepatocellular carcinoma" The 9th Symposium on Bioinformatics and Systems Biology in Taiwan (BIT2011) Taipei, Taiwan, Sep. 28-30, 2011. (Poster Award)
- 122. Wang, H.-K., Takeuchi, R., Nakayashiki, T., Mori, H., Huang, H.-C., <u>Juan, H.-F.</u>^{*} (2011)
 "Genome-wide analysis of exogenous 1-butanol stress in *Escherichia coli*" (Abstract#P3-014) *The 16th Biophysics Conference*, Hualien, Taiwan, May 18-21. (The 3rd prize)
- 123. Wu, Y.-H., Hu, C.-W., Chang, H.-Y., Huang, H.-C., <u>Juan, H.-F.</u>* (2011) "The mechanisms underlying anti-cancer effects of ATP synthase inhibitor in lung tumor xenograft model" 2011 *Translational Medicine Conference and Taiwan Proteomics Society Annual Symposium*, Taipei, Taiwan, April 27-28. (Poster Award)
- 124. Tseng, C.-W., Lin, C.-C., Chuang, K.-N., Chen, C.-N., Huang, H.-C., Juan, H.-F.^{*} (2011).
 "MicroRNA-148a suppresses cell metastasis through targeting 14-3-3β in gastric cancer" 2011 Translational Medicine Conference and Taiwan Proteomics Society Annual Symposium, Taipei, Taiwan, April 27-28. (Poster Award)
- 125. Chuang, K.-N., Tseng, C.-W., Lin, C.-C., Chen, C.-N., Huang, H.-C., Juan, H.-F.* (2011) "Elucidating the role of 14-3-3B in gastric cancer cells using proteomics and network analysis" (Abstract#P205) 26th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 19-20. (Poster Award)
- 126. Chen, N.-N., Chang, H.-Y., Chen, Y.-J., Huang, H.-C., <u>Juan, H.-F.</u>^{*} (2011) "Elucidating the molecular mechanism of ATP synthase inhibitor citreoviridin on anti-proliferative activity of breast cancer cells" (Abstract#P206) 26th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 19-20.
- 127. Wang, H.-K., Takeuchi, R., Nakayashiki, T., Mori, H., Huang, H.-C., <u>Juan, H.-F.</u>^{*} (2011)
 "Study of exogenous 1-butanol stress on *Escherichia Coli* using genome-wide approach" (Abstract#P207) 26th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 19-20.
- 128. Wu, C.-C., Chen, H.-J., Hsieh, H.-L., Huang, H.-C., <u>Juan, H.-F.</u>* (2011) "The Role of brassinosteroid-regulated miR395a in *Arabidopsis thaliana*" (Abstract#P208) 26th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 19-20.
- 129. Yeh, T.-W., Chen, C.-Y., Juan, H.-F., Huang, H.-C.^{*} (2011) "Characteristics of microRNA regulation in transcription network hierarchy" (Abstract#P174) 26th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 19-20.
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- 131. Tseng, C.-W., Lin, C.-C., Huang, H.-C., Chen, C.-N., Juan, H.-F.* (2010) "Integrative network analysis reveals active microRNA and their functions in gastric cancer" (Abstract#O3) *The Taiwan Society for Biochemistry and Molecular Biology: Beigang Autumn Camp*, Nantou, Taiwan, November 11-13. (Oral Presentation)

- 132. Lin, L.-L., Huang, H.-C., S., Ogihara, Wang, J.-T., Chen, C.-N., Juan, H.-F.* (2010) "Membrane repair against H. pylori promotes cancer cell proliferation" (Abstract#O17) *The Taiwan Society for Biochemistry and Molecular Biology: Beigang Autumn Camp*, Nantou, Taiwan, November 11-13. (Oral Presentation)
- 133. Wu, W.-L., Chang, J.-Y., Huang, H.-C., Juan, H.-F., Wu, S.-H.* (2010) "Genome sequencing and feather-degrading ability of Meiothermus Taiwanensis" (Abstract#O17) *The Taiwan Society for Biochemistry and Molecular Biology: Beigang Autumn Camp*, Nantou, Taiwan, November 11-13. (Oral Presentation)
- 134. Chang, H.-Y., Huang, T.-C., Huang, H.-C., Wang, Y.-C., <u>Juan, H.-F.</u>* (2010) "Ecto-ATP synthase, an efficient therapeutic biomarker in non-small cell lung cancer (NSCLC)" (Abstract#P9) *The Taiwan Society for Biochemistry and Molecular Biology: Beigang Autumn Camp*, Nantou, Taiwan, November 11-13. (Poster Award)
- 135. Huang, T.-C., Chen, C.-Y., Hsu, W.-M., Huang, H.-C., Juan, H.-F.* (2010) "The impact of miR-124 on neuroblastoma cell differentiation" (Abstract#P53) *The Taiwan Society for Biochemistry and Molecular Biology: Beigang Autumn Camp*, Nantou, Taiwan, November 11-13.
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- 137. Hu, C.-W., Chang, Y.-L., Huang, H.-C., Chen, H.-C., K.-Huang, L-L, J. C. Liao, <u>Juan, H.-F.</u>^{*} (2010) "A proteomic study of growth enhancement by Calvin-Benson-Bassham cycle proteins and chaperonin GroEL gene over-expression in *Rhodopseudomonas palustris*" (Abstract#P7) *The Taiwan Society for Biochemistry and Molecular Biology: Beigang Autumn Camp*, Nantou, Taiwan, November 11-13.
- 138. Tseng, C.-W., Lin, C.-C., Huang, H.-C., Chen, C.-N. <u>Juan, H.-F</u>^{*} (2010) "integrative network analysis reveals key MicroRNAs and their functions in gastric cancer" (Abstract#P02.114) *The 11th International Conference on Systems Biology*, Edinburgh, Scotland, UK, October 10-15.
- 139. Hsu, W.-M., Shih, Y.-Y., Lee, H.-Y., Juan, H.-F., Tsay, Y.-G., Liao, Y.-F. (2010) "The interaction between GRP75 and retenoic acid receptor-α/retenoid X receptor-α is essential for retenoic acid-induced neuronal differentiation of neuroblastoma cells". Advances in Neuroblastoma Research, Stockholm, Sweden, June 21-24. (Poster Competition Award)
- 140. Chang, H.-H., Hsu, W.-M., Juan, H.-F., Liao, Y.-F., Huang, M.-C., Lee, H.-Y., Hsieh, F.-J. Lin, K.-H. (2010) "Microarray-based pathway analysis leads to the identification of potential molecularmechanisms underlying gamma-secretase inhibitor-induced differentiation" *Advances in Neuroblastoma Research*, Stockholm, Sweden, June 21-24.
- 141. Wen-Ming Hsu, Pei-Yi Wu, Juan, H.-F., Lee, H.Y. (2010) "Aromatic hydrocarbon receptor down-regulates MYCN expression and promotes neuronal differentiation of neuroblastoma" *Advances in Neuroblastoma Research*, Stockholm, Sweden, June 21-24.
- 142. Chou, Y.-T., Lin, L.-L., Lin C.-C., Huang, H.-C., Juan, H.-F.* (2010) "The role of annexin A4 in gastric cancer cell proliferation" (Abstract#P6-005) *The 1^{5th} Joint Biophysics Conference*, Taipei, Taiwan, May 19-21.
- 143. Liang, S.-P., Lin, C.-C., Wang, H.-W, Juan, H.-F.*, Huang, H.-C. (2010) "Dynamic features of functional network modules during tumor progression" (Abstract#P6-012) The 15th Joint Biophysics Conference, Taipei, Taiwan, May 19-21.

- 144. Chen, C.-Y, Hsu, W.-M., Huang, H.-C., Juan, H.-F.* (2010) "The impact of miR-124 on neuroblastoma cell differentiation" (Abstract#P6-020) The 15th Joint Biophysics Conference, Taipei, Taiwan, May 19-21. (Poster Competition Award)
- 145. Hsu, C.-C., Chou, Y.-T., Huang, H.-C., Shih, A. C.-C., Li, W.-H.^{*}, <u>Juan, H.-F.^{*}</u> (2010) "Gene expression networks of microRNA p-27-5p-treated human breast cancer cells" (Abstract#P691) 25th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 27-28. (Poster Award)
- 146. Yi, T.-H., Lin, M.-H., Wu, S.-H., Huang, H.-C., <u>Juan, H.-F.*</u> (2010) "Phosphoproteome of *Rhodopseudomonas palustris*" (Abstract#P690) 25th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 27-28.
- 147. Pai, C.-C., Chen, C.-Y., Chen, S.-T., Juan, H.-F.*, Huang, H.-C.* (2010) "Co-regulation of microRNA and transcription factor in *Drosophila melanogaster* transcriptional and protein-protein interaction networks" (Abstract#P698) 25th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 27-28.
- 148. Wu, H.-C., Juan, H.-F., Hsiang, J.-T., Wu, K.-P.*, Huang, H.-C.* (2010) "Effects of microRNA regulation on noise in gene expression" (Abstract#P699) 25th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 27-28.
- 149. Wu, Y.-S., Lin, C.-C., Oyang, Y.-J., Juan, H.-F.*, Huang, H.-C.* (2010) "integrative network analysis reveals dynamic functional modules in Drosophila melanogaster embryonic development" (Abstract#P891) 25th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 27-28.
- 150. Lin, L.-L., Chou, Y.-T., Huang, H.-C., Chen, C.-N., Juan, H.-F.* (2009) "Gene network of Helicobacter pylori-infected host cell: annexin A4-involved signaling and regulation in gastric cancer" (Abstract#2.014) *The 10th International Conference on Systems Biology*, Stanford, California, USA, August 30-Sepetmber 4.
- 151. Hu, C.-W., Huang, H.-C., Liao, J. C., <u>Juan, H.-F.</u>^{*} (2009) "Elucidating regulation of carbon dioxide assimilation in *R. palustris* using synthetic biology and proteomics approach" (Abstract#T02) 2009 TPS International Proteomics Conference and 5th AOHUPO MPI Workshop, Taipei, Taiwan, June 19-20.
- 152. Chang, H.-Y., Huang, T.-C., Wei, Y.-C., Huang, H.-C., Wang, Y.-C., <u>Juan, H.-F.*</u> "ATP synthase, a new target for non-small cell lung cancer (NSCLC) therapy" (Abstract#C07) 2009 TPS International Proteomics Conference and 5th AOHUPO MPI Workshop, Taipei, Taiwan, June 19-20. (Selected Oral Presentation)
- 153. Lin, L.-L., Chou, Y.-T., Huang, H.-C., Chen, C.-N., Juan, H.-F.* "Gene network of *Helicobacter pylori*-infected host cell: annexin A4-involved signaling and regulation in gastric cancer" (Abstract#C06) 2009 TPS International Proteomics Conference and 5th AOHUPO MPI Workshop, Taipei, Taiwan, June 19-20. (Poster Award)
- 154. Tseng, C.-W., Chen, C.-N.*, Huang, H.-C., Juan, H.-F.* (2009) "14-3-3β, a novel biomarker for early detection and prognosis in gastric cancer" (Abstract#C04) 2009 TPS International Proteomics Conference and 5th AOHUPO MPI Workshop, Taipei, Taiwan, June 19-20.
- 155. Hu, P.-Y., Huang, H.-C., Chen, C.-N., Juan, H.-F.* (2009)"elucidating regulatory mechanism of estrogen receptors in helicobacter pylori-infected gastric cancer" (Abstract#B02) 2009 TPS International Proteomics Conference and 5th AOHUPO MPI Workshop, Taipei, Taiwan, June 19-20.

- 156. Tseng, C.-W., Chen, C.-N.*, Juan, H.-F.* (2009) "14-3-3β, a novel biomarker for early detection and prognosis in gastric cancer" (Abstract#O5) 24th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 21-22. (Oral Presentation)
- 157. Hu, C.-W., Huang, H.-C., Liao, J. C., Juan, H.-F.* (2009) "Regulation of carbon dioxide assimilation in *R. palustris* through CBB genes and GroEL overexpression" (Abstract#O6) 24th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 21-22. (Oral Presentation)
- 158. Hu, P.-Y., Huang, H.-C., Juan, H.-F.* (2009) "Elucidating regulatory pathway of estrogen receptors in *Helicobacter pylori*-infected gastric cancer" (Abstract#O29) 24th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 21-22. (Oral Presentation)
- 159. Chen, C.-Y., <u>Juan, H.-F.*</u>, Huang, H.-C.* (2009) "Co-regulation of microRNAs in transcriptional regulatory network" (Abstract#O31) 24th Joint Annual Conference of *Biomedical Sciences*, Taipei, Taiwan, March 21-22. (**Oral Presentation**)
- 160. Chang, Y.-Y., Lee, T.-Y., Huang, H.-C., Shih, A. C.-C., Li, W.-H., <u>Juan, H.-F.</u>* (2009)
 "Overexpression of novel microRNA P-27-5p enhances g0/g1 arrest in breast cancer cells"
 (Abstract#O44) 24th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 21-22. (Oral Presentation)
- 161. Chang, Y.-L., Huang, H.-C., Liao, J. C., <u>Juan, H.-F.</u>^{*} (2009) "Effects of overexpressed transketolase on carbon flow to ATP generation in *Rhodopseudomonas palustris*" (Abstract#P44) 24th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 21-22.
- 162. Chang, H.-Y., Huang, H.-C., Huang, T.-C., H. Mori, <u>Juan, H.-F.*</u> (2008) "Application for biofuel production: development of 1-Butanol tolerant *Escherichia coli*" (Poster 7) 4th International Symposium of the Kanagawa University-National Taiwan University Exchange Program 2008, Taipei, Taiwan, Dec. 27, 2008. (Short Talk 4)
- 163. Huang, T.-C., Chang, H.-Y., Hsu, C.-H., Kuo, W.-H., Chang, K.-J., Juan, H.-F.* (2008) "Targeting therapy on breast carcinoma by ATP synthase inhibitor aurovertin b" (Poster 8) 4th International Symposium of the Kanagawa University-National Taiwan University Exchange Program 2008, Taipei, Taiwan, Dec. 27, 2008.
- 164. Tseng, C.-W., Chen, C.-N., Juan, H.-F.* (2008) "14-3-3 is a novel biomarker for early detection and prognosis in gastric cancer" (Abstract#P-44) 2008 Taiwan Japan Proteomics Symposium, Taipei, Taiwan, Dec. 03 05, 2008. (1st Prize)
- 165. Hu, C.-W., Huang, H.-C., Juan, H.-F.* (2008) "Regulation of carbon dioxide assimilation in *R. palustris* through CBB gene and GroEL overexpression" (Abstract#P-58) 2008 Taiwan Japan Proteomics Symposium, Taipei, Taiwan, Dec. 03 05, 2008. (3rd Prize)
- 166. Lin, C.-C., Juan, H.-F., Huang, H.-C. (2008) "Comparative analysis of co-expressed protein interaction networks reveals heart failure related modules" *The 2nd Taiwan-Japan Young Researchers Conference on Computational and Systems Biology*, Tokyo, Japan, Nov. 4-6. (Travel Award, Oral presentation)
- 167. Tseng, C.-W., Chen, C.-N., Huang, H.-C., C.-C., Chang, Chang, K.-J., Lee, P.-H., Kuo, M.-L., Jeng, Y.-M., Juan, H.-F.* (2008) "Clinical significance of connective tissue growth factor, its mediated microRNAs and target genes in gastric cancer" (Abstract#B-03) 20th Federation of Asian and Oceanian Biochemists and Molecular Biologists (FAOBMB) symposium, Taipei, Taiwan, Oct. 23-25.
- 168. Chang, H.-Y., Huang, H.-C., Huang, T.-C., H. Mori, <u>Juan, H.-F.</u>* (2008) "Development of 1-butanol tolerant microorganism for biofuel production" *The Fourth International Meeting on*

Synthetic Biology (SB4.0), Hong Kong, China, October 10-12. (Travel Award, Oral presentation)

- 169. Hsu, J.-W., Huang, H.-C, <u>Juan, H.-F.*</u> (2008) "Systems analysis reveals the differentiation mechanism of leukemia cells to macrophages induced by *Ganoderma lucidum* polysaccharides" (Abstract#DS1-3-18) *The 9th International Conference on Systems Biology*, Göteborg, Sweden, August 22-28.
- 170. Chang, H.-Y., Huang, T.-C., Hsu, C.-H., Kuo, W.-H., Chang, K.-J., Juan, H.-F.* (2008)
 "Targeting therapy on breast carcinoma by ATP synthase inhibitor aurovertin B" *Future Knowledge of Biomedical Science 2008 Conference and the seventh meeting of the Straits of Biomedical Strait*, Jun. 27-28 (Academic Foundation Professor Lin Rongyao Education Foundation Poster Award)
- 171. Cheng, K.-L., Huang, H.-C., Hsu, C.-W., Hsu*, W.-M., Juan, H.-F.* (2008) "protein-protein interaction network of AHR and MYCN involved in neuroblastoma" (Abstract#B73) Advances in Neuroblastoma Research (ANR2008), Chiba, Japan, May 21-24.
- 172. Liao, Y.-F., Hsu, W.-M., Lee, H.-Y., Juan, H.-F., Tsay Y.-G., Shih, Y.-Y., Wang, B.-J., Chang, H.-H., Hsieh, F.-J. (2008) "GRP75 promotes the neuronal differentiation of neuroblastoma cells" (Abstract#B124) Advances in Neuroblastoma Research (ANR2008), Chiba, Japan, May 21-24.
- 173. Hsu, W.-M., Liao Y.-F., Lee, H.-Y., Tsay Y.-G., <u>Juan, H.-F.</u>, Hsieh, F.-J., Jeng, Y.-M., Chang, H.-H., Lin, K.-H.(2008) "Identification of GRP75 as an independent favorable prognostic marker of neuroblastoma by a proteomics analysis" (Abstract#TR45) Advances in Neuroblastoma Research (ANR2008), Chiba, Japan, May 21-24.
- 174. Chang, H.-H., Hsu, W.-M., Lee, H.-Y., Juan, H.-F., Lai, H.-S., Chen, W.-J., Lee, Y.-L., Liao, Y.-F., Hsieh, F.-J., Lin, K.-H.(2008) "Notch signaling pathway and calreticulin in neuroblastoma: interactions and prognostic significance" (Abstract#TR115) Advances in Neuroblastoma Research (ANR2008), Chiba, Japan, May 21-24.
- 175. Juan, H.-F.*, Huang, H.-C., Chen, T.-Y., Chang, Y.-L., Hu, C.-W., Yi, T.-H., Bernstein, J. R., Liao, J. C. (2008) "Overexpression of calvin cycle genes in *Rhodopseudomonas palustris* improves the efficiency of carbon dioxide fixation" (Abstract#23) *An International Symposium: Biotechnology for Better Crops, Energy and Health: ABRC 10thAnniversary*, Taipei, Taiwan, April 29-May 1.
- 176. Chang, H.-Y., Huang, H.-C., Huang, T.-C., Mori, H., Juan, H.-F.* (2008) "Application for biofuel production: development of 1-butanol tolerant *Escherichia coli*" (Abstract#24) An International Symposium: Biotechnology for Better Crops, Energy and Health: ABRC 10thAnniversary, Taipei, Taiwan, April 29-May 1.
- 177. Lee, T.-A., Juan, H.-F.* (2008) "Identification of human novel miRNAs and their targets" (Abstract#0115) 23th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 29-30. (Oral Presentation)
- 178. Hsu, J.-W., Huang, H.-C, Cheng, K.-C., Chen, S.-T., Wong, C.-H., <u>Juan, H.-F.</u>* (2008) "Ganoderma lucidum polysaccharides induce apoptosis and differentiation in human monocytic leukemia cell line THP-1" (Abstract#O107) 23th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 29-30. (Oral Presentation)
- 179. Huang, T.-C., Chang, H.-Y., Wang, Y.-C., <u>Juan, H.-F.</u>* (2008) "The effect of ATP synthase inhibitor Aurovertin B in non-small cell lung cancer" (Abstract#O79) 23th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 29-30. (Oral Presentation)
- 180. Chang, H.-Y., Huang, H.-C., Huang, T.-C., Mori, H., Juan, H.-F.* (2008) "Proteomics analysis of 1-butanol tolerant *Escherichia coli* for bioenergy application" (Abstract#O53) 23th Joint

Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 29-30. (Oral Presentation)

- 181. Chen, T.-Y., Huang, H.-C., <u>Juan, H.-F.</u>* (2008) "Profiling transcriptome and proteome of *Rhodopseudomonas palustris* in different metabolic states for bioenergy application" (Abstract#P275) 23th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 29-30.
- 182. Wu, C.-Y., Chen, H.-W., Huang, H.-C., <u>Juan, H.-F.</u>* (2008) "Identifying the regulatory relationships between miR-218 and NPY1R in MCF-7 and MDA-MB-231 breast cancer cell lines" (Abstract#P66) 23th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 29-30.
- 183. Lin, L.-L., C.-N. Chen*, Lin, W.-C., Lee, P.-H., Chang, K.-J., Lai, Y.-P., Wang, J.-T. and <u>Juan</u>, <u>H.-F.</u>* (2007) "Annexin A4: a novel molecular marker for gastric cancer with *Helicobacter pylori* infection using proteomics approach" (Abstract#P069) Taiwan Proteomics Society International Conference 2007 (TPSIC2007), NCKU, Tainan, Taiwan, December, 4-5.
- 184. Chang, H.-Y., Huang, H.-C., Mori, H., Juan, H.-F.* (2007) "Screening and proteomics study of butanol-tolerant *E. coli*" (Abstract#P80) The Taiwan Society Biochemistry and Molecular Biology Fall Camp, Hsinchu, Taiwan, October 19-20. (Poster Award)
- 185. Hsu, J.-W., Huang, H.-C., Cheng, K.-C., Chen, S.-T., Wong, C.-H., <u>Juan, H.-F.</u>* (2007) "Ganoderma lucidum polysaccharides induce apoptosis in uman monocytic leukemia cell line" (Abstract#P99) The Taiwan Society Biochemistry and Molecular Biology Fall Camp, Hsinchu, Taiwan, October 19-20. (Poster Award)
- 186. Huang, T.-C., Chang, H.-Y., Juan, H.-F.* (2007) "Targeting therapy on breast carcinoma by ATP synthase inhibitor Aurovertin B" (Abstract#P19) The Taiwan Society Biochemistry and Molecular Biology Fall Camp, Hsinchu, Taiwan, October 19-20.
- 187. Chang, C.-C., Leu, J.-H., Wu, J.-L., Hsu, C.-W., Hirono, I., Aoki, T., <u>Juan, H.-F.</u>, Lo, C.-F., Kou, G.-H.^{*}, Huang H.-C.^{*} (2007) "Comparative analysis of differentially expressed genes in normal and white spot syndrome virus infected *Penaeus monodon*" (Abstract#P92) The Taiwan Society Biochemistry and Molecular Biology Fall Camp, Hsinchu, Taiwan, October 19-20. (Poster Award)
- 188. Chen, C.-P., Huang, H.-C., Juan, H.-F.* (2007) "MicroRNAs-involved regulatory network of ATRA- and Am80-induced human leukemia cell line HL-60 differentiation" (Abstract#I10) *The 8th International Conference on Systems Biology*, Long Beach, USA, October 1-6.
- 189. Chiu, Y.-W., Juan, H.-F., Huang, H.-C. (2007) "Prediction of functional associated proteins using topological similarity in protein-protein interaction network" (Abstract#H14) The 8th International Conference on Systems Biology, Long Beach, USA, October 1-6. (Travel Award)
- 190. Lin, C.-C., Juan, H.-F., Hsiang, J.-T., Mori, H., Huang, H.-C. (2007) "An essential core of protein-protein interaction network in *Escherichia coli*" (Abstract#H15) *The 8th International Conference on Systems Biology*, Long Beach, USA, October 1-6.
- 191. Hsu, C.-W., Juan, H.-F., Huang, H.-C. (2007) "Characterization of microRNA-Regulated Protein-Protein Interaction Network" (Abstract#H16) *The 8th International Conference on Systems Biology*, Long Beach, USA, October 1-6.
- 192. Hwang, Y.-C, Juan, H.-F., Huang, H.-C.* (2007) "Predicting essential genes based on network and sequence analysis" (Abstract#P22) 2007 Symposium of Bioinformatics and Systems Biology in Taiwan, Chiayi, Taiwan, September 4-5.
- 193. Chen, H.-W., Ni, K.-C., Huang, H.-C., Juan, H.-F.* (2007) "MiLink a web tool to analyze the association between gene expression profiles with microRNAs" (Abstract#P23) 2007

Symposium of Bioinformatics and Systems Biology in Taiwan, Chiayi, Taiwan, September 4-5.

- 194. Lin, C.-C., Juan, H.-F., Hsiang, J.-T., Mori, H., Huang, H.-C.* (2007) "An essential core of protein interaction network in Escherichia coli" (Abstract#P25) 2007 Symposium of Bioinformatics and Systems Biology in Taiwan, Chiayi, Taiwan, September 4-5.
- 195. Chang, Y.-W., Chang, S.-C., Juan, H.-F.* (2007) "Localizomics study in TPA-induced HL-60 cells differentiation into macrophages" (Abstract#SB2) *The 12th Symposium on Recent Advances in Biophysics*, Miaoli, Taiwan, May 23-25.
- 196. Ni, K.-C., Huang, H.-C., Chen, H.-W., Yi, T.-H., Chen, S.-T. Juan, H.-F.* (2007) "Regulatory mechanism of TPA-induced HL-60 cell differentiation" (Abstract#O031, Oral Presentation) 22th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 17-18.
- 197. Shih, C.-Y., Huang, T.-C., Juan, H.-F.* (2007) "Effect of cyclic RGD on phosphoprotein signaling in human breast cancer cell MCF-7" (Abstract#O081, Oral Presentation) 22th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 17-18.
- 198. Chen, C.-P., Huang, H.-C., Chen, H.-W., Juan, H.-F.* (2007) "Identification of differenciation related gene networks and microRNAs in ATRA- and AM80-treated human HL-60 leukemia cells" (Abstract#P591, Poster Award) 22th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 17-18.
- 199. Lin, L.-L., Chen, C.-Y., Juan, H.-F.* (2007) "A potential new therapeutic target of gastric cancer: annexin A4" (Abstract#P592) 22th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 17-18.
- 200. Leu, J.-H., Chang, C.-C., Wu, J.-L., Hirono, I., Aoki, T., Juan, H.-F., Lo, C.-F., Huang, H.-C., and Kou, G.H. (2007) "Comparative analysis of differentially expressed genes in normal and white spot syndrome virus infected *penaeus monodon*" (Abstract#P587) 22th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 17-18.
- 201. Chen, H.-W., Huang, H.-C., Lin, Y.-S., Chang, K.-J., Kuo, W.-H., Hwa, H.-L., Hsieh, F.-J., Juan, H.-F.* (2006) "Gene expression profiles reveals association of single nucleotide polymorphisms with estrogen receptor status in breast cancer populations" (Oral Presentation) 2006 International Symposium on Biomedical Engineering, Taipei, Taiwan, December 14-16.
- 202. Juan, H.-F.*, Cheng, K.-C., Huang, H.-C., Ou, C.-H., Chen, J.-H., Yang, W.-B., Chen, S.-T., Wong, C.-H. (2006) (Abstract#23)"Elucidating the molecular regulation of *Ganoderma lucidum* polysaccharides in human monocytic cells: from gene expression to network construction" *The 7th International Conference on Systems Biology*, Yokohama, Japan, October 9-11.
- 203. Ou, C.-H., Chang, C.-C., Hsia, H.-C., Wang, F.-S., Juan, H.-F.*, Huang, H.-C.* (2006)
 "BSIP a web server for systems-biology structure identification program development" (p83-85, Oral presentation) *The sixth annual Emerging Information Technology Conference* (EITC-06), Dallas, USA, Aug 10-12.
- 204. Lin, C.-C., Hwang, Y.-C., Juan, H.-F., Mori, H., and Huang, H.-C. (2006) "Topological characteristics of essential genes in the protein interaction network of Escherichia coli" Bioinformatics in Taiwan (Abstract#P15), Taichung, Taiwan, Sep 12-15.
- 205. Y.-C. Fang, H.-C. Huang and <u>Juan, H.-F.</u>* (2006) "Text extraction and mining of DNA methylation information" (p78-80, **Oral presentation**) *The sixth annual Emerging Information Technology Conference* (EITC-06), Dallas, USA, Aug 10-12.
- 206. Tseng, C.-W., Juan, H.-F.* (2006) "To investigate the effect of anti- cancer drug 5-FU on the molecular mechanism of gastric cancer cell line SCM1" 20th Symposium of the Protein Society & 20th Anniversary Celebration, San Diego, California, USA, Aug 5-9.
- 207. Huang, T.-C., Chang, C.-C., Huang, H.-C., Juan, H.-F.* (2006) "Induction of

caspase-dependent cell death pathway by cyclic RGD in human breast carcinoma cell line MCF-7" 20th Annual symposium of the Protein Society & 20th Anniversary Celebration, San Diego, California, USA, Aug 5-9.

- 208. Juan, H.-F.*, Cheng, K.-C., Huang, H.-C., Ou., C.-H., Chen, J.-H., Yang, W.-B., Chen, S.-T., Wong, C.-H. (2006) "Elucidating the molecular regulation of *Ganoderma lucidum* polysaccharides in human monocytic cells: from gene expression to network construction" *The 11th Symposium on Recent Advances in Biophysics*, Taipei, Taiwan, May 24-26, 2006.
- 209. Ou, C.-H., Chang, C.-C., Hsia, H.-C., Wang, F.-S., <u>Juan, H.-F.</u> *, Huang, H.-C.* (2006)
 "BSIP a web server for systems-biology structure identification program development" *4th Asia-Pacific Bioinformatics Conference* (APBC2006), Taiwan, Feb 13-16. (Abstract#P028, 2nd Poster Award)
- 210. Bow, Y.-Y., Chang, J.-Y., Juan, H.-F., Mori, H., Huang, H.-C. (2006) "Elucidating the essentiality of essential genes in *E. coli* K-12" 4th Asia-Pacific Bioinformatics Conference (APBC2006), Taiwan, Feb 13-16. (Abstract#P027, 1st Poster Award)
- 211. Hwang, Y.-C., Lin, C.-C., Juan, H.-F., Mori, H., Huang, H.-C. (2006) "Topologial characteristics of protein interaction network and roles of essential genes in E. COLI K-12" *4th Asia-Pacific Bioinformatics Conference* (APBC2006), Taiwan, Feb 13-16. (Abstract#P026)
- 212. Li, J.-J., Juan, H.-F.*, Chung, I-F., Huang, H.-C.* (2006) "Identification of RNA-binding protein residues using machine learning approaches" 4th Asia-Pacific Bioinformatics Conference (APBC2006), Taiwan, Feb 13-16. (Abstract#P025)
- 213. Lin, N., Chiou, S.-H., Juan, H.-F.*, Huang, H.-C.* (2006) "Bioinformatics approach to the study of the correlation between gene expression profiles and protein-protein interactions using matrices" *4th Asia-Pacific Bioinformatics Conference* (APBC2006), Taiwan, Feb 13-16. (Abstract#P029)
- 214. Huang, T.-C. Chang, C.-C., Huang, H.-C., Juan, H. F.* (2005) "Cyclic RGD-induced cell death in human breast carcinoma cell line MCF-7: the influence of caspase pathway" *The 6th International Conference on Systems Biology*, Boston, MA, U. S. A., October 19-24, 2005.
- 215. Bow, Y.-Y., Chang, J.-Y., Juan, H. F., Mori, H., Huang, H.-C. (2005) "Elucidating the essentiality of essential genes in *E. coli* K-12" *The 6th International Conference on Systems Biology*, Boston, MA, U. S. A., October 19-24.
- 216. Tseng, H.-W., Chen, S.-T., Juan, H. F., Huang, H.-C., Chen, C.-F., and Wang, G.-J. (2005) "High-throughput proteomic analysis of the anti-inflammatory effect of berberine in rat cultured vascular endothelial cells" (Abstract#O100) 20th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 26-27. (Oral Presentation)
- 217.Chang, S.-C., Huang, H.-C., Chen, S.-T., and <u>Juan, H.-F.*</u> (2005) "A subcellular proteomics analysis of human myeloid leukemia cells differentiation to macrophages using microwave technology combined with mass spectrometry" (Abstract#O87) 20th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 26-27. (**Oral Presentation**)
- 218.Huang, T.-C., Huang, H.-C. Chen, S.-T., and Juan, H.-F.* (2005) "Cyclic RDG-induced cell death in human breast carcinoma (MCF-7) cells: the influence of caspase pathway" (Abstract#O80) 20th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 26-27. (Oral Presentation)
- 219.Li, J.-J. Juan, H.-F., Ko, R.-S., Chung, I-F., Huang, H.-C. (2005) "Identification of RNA-binding protein residues using machine learning approaches" (Abstract#O39) 20th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 26-27. (Oral Presentation)

- 220.Chang, H.-Y., Chien, K.-C., Wang, Y.-C., and <u>Juan H.-F.*</u> (2005) "Discovery of biomarkers in human lung cancer by proteomics approach" (Abstract#P567) 20th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 26-27. (Best Poster Paper)
- 221.Li, J.-J., Huang, H.-C., Ko, R.-S., Chen, S.-T., Juan, H.-F.* (2004) "BGSSJ: an interactive tool for biological interpretation of gene expression and proteomics data" (Abstract#258) *Bioinformatics in Taiwan*, Taipei, Taiwan, September 9-11. (2nd Prize)
- 222.Peng, C.-L., Lin, Y.-C., Huang, H.-C., ao, C. -Y., Chen, S.-T., and Juan, H.-F.* (2004)
 "ProtExt: a web-based protein-protein interaction extraction system for PubMed abstract" (Abstract#A-2) 12th International Conference on Intelligent Systems for Molecular Biology (ISMB) and Conference on Computational Biology (ECCB), Glasgow, Scotland, Jul 31-Aug 4.
- 223.Juan, H.-F.*, Chang, S.-C., Huang, H.-C., Chen, S.-T. (2004) "A new application of microwave technology to proteomics" *International Symposium on Microwave Science and Its Application to Related Fields 2004*, Takamatsu, Japan, July 26-30. (Financial Support)
- 224.Chang, D. T.-H, Chen, C.-Y., Chung, W.-C., Oyang, Y.-J., Juan, H.-F., Huang, H.-C. (2004)
 "An efficient mechanism for prediction of protein-ligand interactions based on analysis of protein tertiary substructures" *IEEE Fourth Symposium on Bioinformatics and Bioengineering* (*BIBE2004*), Taichung, Taiwan, ROC, May 19-21.
- 225.Wang, I-H., Huang, H.-C., Chen, S.-T., Juan, H.-F.* (2004) "Proteomic analysis of a novel compound Cyclic RGD in breast carcinoma cell line MCF-7 using biomic approach" (Abstract#PB18) 3rd International Proteomics Conference 2004 (IPC'03), Taipei, Taiwan, May 15-17.
- 226.Tseng, H. W., Wang, G. J., Juan, H. F., Chen, C. F., Huang, H. C., and Chen, S. T. (2004)
 "Systems biology study of LPS-induced inflammatory responses endothelial cells" (Abstract#PB14) 3rd International Proteomics Conference 2004 (IPC'03), Taipei, Taiwan, May 15-17.
- 227.Chang, S.-C., Topanurak, S., Chen, S.-T., Juan, H.-F.* (2004) "A new application of microwave technology to proteomics" (Abstract#PA24) 3rd International Proteomics Conference 2004 (IPC'03), Taipei, Taiwan, May 15-17.
- 228.Li, J.-J., Huang, H.-C., Ko, R.-S. Chen, S.-T., Juan, H.-F.* (2004) "BGSSJ: an interactive tool for biological interpretation of gene expression and proteomics data" (Abstract#PA12) 3rd International Proteomics Conference 2004 (IPC'03), Taipei, Taiwan, May 15-17. (Top 10 Prize
- 229.Peng, C.-L., Lin, Y.-C., Huang, H.-C., ao, C. -Y., Chen, S.-T., and Juan, H.-F.* (2004)
 "ProtExt: a web-based protein-protein interaction extraction system for PubMed abstract" (Abstract#PA05) 3rd International Proteomics Conference 2004 (IPC'03), Taipei, Taiwan, May 15-17.
- 230.Chen, C.-Y., Juan H. -F.*, Hsiao P.-J., Chen S.-T., Tseng H.-W., and Oyang Y.-J. (2003)
 "Design of an incremental clustering package for protein function and family analysis" *The Fifth International Symposium on Multimedia Software Engineering (MSE)*, Taichung, Taiwan, ROC, December 10-12.
- 231. Juan, H.-F.*, Huang, H.-C., and Chen, S.-T. (2003) "The molecular effect of cyclic-RGD peptide on MCF-7 Cells" (Poster #149) *The 4th International Conference on Systems Biology*, Saint Louis, MO, U. S. A., November 5-9.
- 232. Yang, R.-T., Juan, H.-F., and Chen, M.-S. (2003) "Using discretization techniques to discover gene patterns for diagnostics" (Abstract#PC12). 4th East Asian Biophysics Symposium (4th EABS), Taipei, Taiwan, November 3-6.

- 233.Huang, S.-C., Chen, J.-H., Juan, H.-F., Chen, S.-T., Hsu, W.-T., Chen, Y.-J., Chiang, C.-Y., Chang, Y.-W. (2003) "Identification of acute phase proteins in sera from tumor-burden mice: a proteomics-based approach" (Abstract#341).18th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, Mar. 22-23.
- 234. Yang, R.-T., Juan, H.-F., and Chen, M.-S. (2003) "Using discretization techniques to discover trends and differential equations to infer gene networks for diagnostics" Proceedings in 7th Join Conference on Information Sciences, North Carolina, USA, 962-966.
- 235. Juan, H.-F., Chen, J. -H., Shyu, W. T., Huang, S.-C., Chiang, C.-Y., Chang, Y.W., Chen, S.-T., Chen, Y.J. (2002) "Tumor marker discovery by proteomic approach" (Abstract#BC05) 70th *Chinese Chemical Society Annual Meeting*, Taipei, Taiwan, Oct. 25-27.
- 236.Xu, D.-H., Juan, H.-F., Nohda, M., Ban, T. (2001) "QTLS mapping of type I and type II resistance to FHB in wheat." *National Fusarium Head Blight Forum*, Erlanger, KY, U. S. A., December 8 -10, Biotechnology 40-42.
- 237.Juan, H.-F., Wu, T.-H., Chou, C.-K., Wang, K.-T. (1999) "A potential hypoglycemic component from the green wheat" (Abstract#309-M) 13th Symposium of the Protein Society, Boston, MA, U. S. A., July 24-28.
- 238. Juan, H.-F., Yu, H.-M., Wang, K.-T. (1999) "Characterization of a potential hypoglycemic component from the green wheat" (Abstract#134) *14th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, April 10-11.
- 239.Chiou, S.-H., Juan, H.-F. and Huang, H.-C. (1995) "Octopus S-crystallins with endogenous glutathione S-transferase activity: computer graphic modeling and sequence comparison with authentic enzymes" (Abstract#619-M) *9th Symposium of the Protein Society*, Boston, MA, U. S. A., July 8-12.

Patents:

- 1. Li, W.-S., Wang, Y.-C., Juan, H.-F. "Certain Lithocholic acid analogues that inhibit sialytransferase" ROC I 369361, 2012/8/1-2026/7/5.
- 2. Juan, H.-F., Mori, H., Chang, H.-Y., Huang, H.-C., Huang, T.-C., Liao, J.C. "Alcohols tolerant *Escherichia coli* and methods of production thereof" ROC I 379901, 2012/12/21-2028/10/28.
- Juan, H.-F., Chen, C.-N., Tseng, C.-W., Chang, K.-J. "Method for prognosis of gastric cancer" ROC I 399541, 2013/6/21-2029/5/26.
- 4. Li, W.-S., Wang, Y.-C., Juan, H.-F. "Lithocholic acid analogues that inhibit sialyltransferase" US 08940719, 2015/1/27-2035/1/28.

Invited Talks and Lectures:

- "Mining big data for drug repositioning" Taipei Medical University, Taipei, Taiwan, Sep. 19, 2019.
- "Imaging Mitochondria Dynamics" The 2019 EITA Conference on New Materials, Nanotechnology, Healthcare, New Energy and Sustainable Smart Manufacturing (EITA-New Materials 2019), National Chiao-Tung University, Hsinchu, Taiwan, Sep. 11-12, 2019.
- "More is better than one: easy for biological interpretation" Short Courses in Frontier Science and Technology-2019 Data Analysis in Quantitative Proteomics Notice, Yilan, Taiwan, Sep. 5-9, 2019.
- 4. "Mining non-oncogene addiction for cancer therapy" Taiwan International Graduate Program (TIGP)-Bioinformatics Program, Taipei, Taiwan, May 14, 2019.

- 5. "Proteomics reveals the trafficking pathway of mitochondrial ATP synthase to cancer cell surface" Cascadia Proteomics Symposium, Seattle, USA, July 23-24, 2018.
- "Systems biology for target and drug discovery" Department of Mechanical Engineering, The University of British Columbia, Vancouver, Canada, May 1st, 2018.
- "Blocking dynamic trafficking of mitochondrial key energy protein for cancer therapy" in Mitochondrial Medicine Section, 33th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 24-25, 2018.
- 8. "Systems Biology: A Data-driven Science" 2018 春季系列演講科學推理的實作, 陽明大學 心智哲學研究所, March 2nd, 2018.
- 9. "Applications of AI in biomarker and drug development" AI Meetup, Taipei, Taiwan, December 18, 2017.
- 10. "Network biology in proteomics" 2017 Annual Conference of Taiwan Proteome Society, Taipei, Taiwan, November 25, 2017.
- "A long noncoding RNA as a novel predictor" International Conference of Precision Medicine, Taipei, Taiwan, November 24, 2017.
- 12. "Brassinosteroid-regulated phosphorylation dynamics in Arabidopsis" Taiwan-Japan 2017 Plant Biology, Taipei, Taiwan, November 3-6, 2017.
- 13. "Systems biology data science for target and drug discovery" The International Conference on Genomics (ICG), Shen Zhen, China, Oct. 26-29, 2017.
- 14. "Trafficking of mitochondrial ATP synthase to cell surface" 2017 Mini Symposium on Mitochondrial Structure and Function, Taipei, Taiwan, Oct. 23, 2017.
- "Systems biology data science discovers reprograming serine metabolism for neuroblastoma therapy" The 3rd Asia-Pacific Neuroblastoma Symposium (APSN2017), Oct. 6, 2017, Tokyo, Japan.
- 16. "Systems biology data science for breast cancer therapy" 2017 Taipei International Breast Cancer Symposium, Taipei, Taiwan, Sep. 29-Oct. 1, 2017.
- 17. "Integrative phosphoproteome and proteome reveal key protein phosphorylation by MCM2 in lung cancer" Cascadia Proteomics Symposium, Seattle, USA, July 17-18, 2017.
- "Systems biology data science for anticancer drug discovery", 2017 Taiwan Joint Cancer Conference, Taipei, Taiwan, May 6-7, 2017.
- 19. "MicroRNA-mediated networks underlie immune response regulation in papillary thyroid carcinoma", 中華民國內分泌暨糖尿病學會第 13 屆第 2 次會員大會暨學術演講會, Taipei, Taiwan, April 08, 2017.
- 20. "Systems biology data science: target and drug discovery", Taipei Medical University, Taipei, Taiwan, March 27, 2017.
- "Targeting one-carbon metabolism for precision cancer medicine", The 3rd Taiwan Epigenomics Symposium and International Conference on Systems Biology, National Chung Cheng University, Chia-yi County, Taiwan, March 17-18, 2017.
- 22. "Integration of systems and synthetic biology: biomedical applications", National Health Research Institutes, Zhunan, Taiwan, March 13, 2017.
- 23. "Systems biology data science for precision medicine", 2017 Conference on Advanced Topics and Auto Tuning in High Performance Scientific Computing, National Taiwan University,

Taipei, Taiwan, March 10-11, 2017.

- 24. "Response dynamics of a key energy protein blockade", 2016 Congress of the Chinese Society of Biochemistry and Molecular Biology, Hangzhou, China, Oct 20-23, 2016.
- 25. "Systems biology: integrating mathematics, physics, computer science and biology (結合數 理、資訊和生物的跨領域科學: 系統生物學)", Wu Chien-Shiung Science Camp (吳健雄科 學營), August 7-12, 2016.
- 26. "Integrated systems and synthetic biology: study on a key energy protein", Department of Life Science, National Chung Cheng University, April 15, 2016.
- 27. "Response dynamics of ectopic ATP synthase blockade", Department of Biotechnology and Laboratory Science in Medicine, National Yang-Ming University, January 7, 2016.
- 28. "Systems biology data science for high-risk neuroblastoma therapy", Department of Electric Engineering, National Tsing Hua University, Hsin-Chu, Taiwan, November 27, 2015.
- 29. "Network medicine in human disease" Annual Symposium on Biomedical Engineering and Technology, Taipei, Taiwan, November 13-14, 2015.
- 30. "Drug-induced response networks in cancer cells" 2015 TPS Annual Meeting, Taoyuan, Taiwan, November 13-14, 2015.
- 31. "Integrated systems and synthetic biology for cancer therapy" The 3rd The Emerging Information and Technology Association (EITA)-Bio Conference (the EITA-Bio 2015), Taipei, Taiwan, October 24-25, 2015.
- 32. "Integrative omics analyses reveal the importance of ectopic ATP synthase in cancer progression", Taipei Medical University, Taipei, Taiwan, October 5, 2015.
- 33. "Response network of ectopic ATP synthase blockade", the 2nd Bio-Medical Engineering Suzhou International Symposium on Advanced Bio-Medical Diagnostics, Suzhou, China, September 17-20, 2015.
- 34. "Integrated systems and synthetic biology for cancer research: bioinformatics is a key", Institute of Cellular and Organismic Biology, Academia Sinica, Taipei, Taiwan, September 14, 2015.
- 35. "Integrative omics and network biology for cancer therapy", National Taiwan Ocean University, Keelung, Taiwan, June 17, 2015.
- 36. "Integrative systems and synthetic biology for medical genomics: bioinformatics is the key", Medical Genetics & Genomics Monthly Seminar, Taipei, Taiwan, June 8, 2015.
- 37. "Integrated systems and synthetic biology for cancer therapy", Synthetic Biology Young Scholar Forum (SynBioYSF), Beijing, China, May 23, 2015.
- 38. "Dynamic response network of ectopic ATP synthase blockade", the Third BMIRC International Symposium for Virtual Physiological Human, Iizuka, Fukuoka, Japan, March 5-6, 2015.
- 39. "Integrating transcriptomics, proteomics and network biology to reveal the molecular mechanism of tanshinone IIA on anti-cancer cell growth", 2015 Mini-symposium on Bioinformatics and Systems Biology, Academia Sinica, Taipei, Taiwan, Feb 10, 2015.
- 40. "Targeting ectopic ATP synthase for cancer therapeutic interventions", The Twenty-third Symposium on Recent Advances in Cellular and Molecular Biology, Kenting, Taiwan, Feb 4-6, 2015.
- 41. "Response network of ectopic ATP synthase blockade", 15th IUBMB-24th FAOBMB-TSBMB International Conference, Taipei, Taiwan, October 21-26, 2014.
- 42. "Integrative omics and network study of *Rhodopseudomonas palustris*", 19th Conference of Bacteriology, Kaohsiung, Taiwan, August 21-23, 2014.

- 43. "MicroRNA-mediated regulatory network driven by MYCN in neuroblastoma", EITA Conference on New Media and Biomedical Research, Massachusetts Institute of Technology, Cambridge, MA, USA, July 31-August 01, 2014.
- 44. "Proteomics study and docking simulation reveal ectopic ATP synthase as an anti-cancer drug target", Computational Biology Research Center, Tokyo, Japan, June 24, 2014.
- 45. "How to become an interdisciplinary scientist?", Changhua Girls' Senior High School, Changhua, Taiwan, May 28, 2014.
- 46. "Response network of ectopic ATP synthase blockade", Taiwan International Graduate Program (TIGP), Academia Sinica, Taipei, Taiwan, March 06, 2014.
- 47. "Applied statistics for systems biology", Biostatistics lecture, National Taiwan University, Taipei, Taiwan, December 30, 2013.
- 48. "Systems biology: the approach for post-genomic era", Affiliated Senior High School of National Taiwan Normal University, Taipei, Taiwan, December 26, 2013.
- 49. "Proteomic analysis deciphers the response network of ectopic ATP synthase inhibitor in lung cancer cells", Application of Proteomics in Translational Medicine and Agriculture Workshop, Yilan, Taiwan, December 13, 2013.
- 50. "Proteomics and network biology in stem cell study", The 4th Workshop of Life Science-Medical College: Stem Cells, Taipei, Taiwan, December 09, 2013.
- 51. "Systems biology: integrating mathematics, physics, chemistry and biology ", Chi-Jen High School Natural Education Workshop, Taipei, Taiwan, December 05, 2013.
- 52. "Systems biology approach reveals ectopic ATP synthase as an anti-cancer drug target", 2013 Statistical Workshop for Pharmaceutical Promotion, Taipei, Taiwan, November 22, 2013.
- 53. "Response pathways of ectopic ATP synthase blockade in lung cancer cells", National Taiwan University Hospital, Taipei, Taiwan, October 30, 2013.
- 54. "ATP synthase inhibitor response network of lung cancer cell", 11th Symposium on Bioinformatics and Systems Biology in Taiwan (BIT2013), Taipei, Taiwan, October 18-21, 2013.
- 55. "Experimental design and data analysis", 2013 Paper Writing Workshop for Scientific Experiments, Taipei, Taiwan, September 12, 2013.
- 56. "Systems biology for development of anti-lung cancer drugs: ATP synthase as a target", Cancer and Biomedical Informatics in Biomedical Electronics and Bioinformatics Camp, Taipei, Taiwan, July 3-5, 2013.
- 57. "Docking simulation and protein-protein interaction network analysis reveal ectopic ATP synthase as an anti-cancer drug target", 8th Symposium of Asian Biophysics Association (ABA Jeju 2013), Jeju, Korea, May 26-29, 2013.
- 58. "Docking simulation for discovery of ectopic ATP synthase inhibitor as anti-cancer drug", 2012 NCHC HPC User Workshop, Hisnchu, Taiwan, October 30, 2012.
- 59."Blocking ectopic ATP synthase suppresses lung adenocarcinoma cell growth by activating unfolded protein response", The 12th Emerging Information and Technology Conference (EITC), Toronto, Ontario, Canada, August 16-17, 2012.
- 60."Blocking ectopic ATP synthase for lung cancer therapy: integration of quantitative global proteomics and phosphoproteomics", 2012 Annual Meeting of Taiwan Proteomics Society, Kaohsiung Medical University, Kaohsiung, May 31-June 1, 2012.
- 61."Modification is the key: phosphoproteome of *Rhodopseudomonas palustris*", Minisymposium on Bioinformatics, Systems Biology, and Molecular Evolution, National Health Research Institutes (NHRI), Miaoli, Taiwan, May 25, 2012.

- 62. "Integrative network analysis reveals active microRNAs and their functions", TIGP, Academia Sinica, Taipei, Taiwan, May 17, 2012.
- 63. "Integrative network analysis reveals active microRNAs and their functions", National Taiwan University, Taipei, Taiwan, May 14, 2012.
- 64. "Integrative network analysis reveals active microRNAs and their functions", National Cheng-Kung University Tainan, Taiwan, April 20, 2012.
- 65. "Drug discovery via systems biology", Bilateral Academic Cooperation Symposium on NTU Electrical Engineering and Computer Science and Tsinghua University Information Science and Technology, Taipei, Taiwan, March 28-29, 2012.
- 66. "Integrative network analysis reveals active microRNAs and their functions in gastric cancer", Nara Institute of Science and Technology, Nara, Japan, January 26, 2012.
- 67."*Helicobacter pylori* activates a plasma membrane repair response", Keio University, Tsuruoka, Japan, January 23, 2012.
- 68. "Systems biology for drug discovery", Department of Chemistry, National Normal University, Taipei, Taiwan, December 19, 2011.
- 69. "Integrative network analysis reveals active microRNAs and their functions in gastric cancer", Taiwan-UK Collaborative Forum: Systems Biology Symposium, Taipei, Taiwan, November 28, 2011.
- 70. "Systems biology: applications in cancer-related research", 26th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 19-20, 2011.
- 71. "Systems biology in cancer research", 2011 Symposium on Molecular Cellular and Genomics Medicine, Taipei, Taiwan, March 12, 2011.
- 72. "Systems biology: applications in cancer-related research", National Cheng Kung University, Tainan, Taiwan, November 16, 2010.
- 73. "Response network of *Helicobacter pylori* infection in gastric cancer", The 8th Bioinformatics and Systems Biology, Taipei, Taiwan, September 30-October 1, 2010
- 74. "Response network of *Helicobacter pylori* infection in gastric cancer", Human Proteome World Congress 2010 (HUPO2010), Sydney, Australia, September 19-23, 2010.
- 75. "Targeting breast cancer therapy by blocking key energy protein", 2010 Taipei Interational Breast Cancer Symposium, Taipei, Taiwan, September 4-5, 2010.
- 76. "Membrane repair against *H. pylori* leads to carcinogenesis", Osaka University, Osaka, Japan, August 25, 2010.
- 77. "miRNA-regulated network in cancer", The 10th Taiwan International Symposium on Statistical Physics: Critical Phenomena and Complex Biological Systems, Academia Sinica, Taipei, Taiwan, July 27, 2010.
- 78. "Systems biology for biomedical research", College of Life Sciences, National Chung Hsing University (NCHU), Taichung, Taiwan, May 07, 2010.
- 79. "How transcriptomics and network analysis can help novel biomarker discovery", Institute of Systems Biology and Bioinformatics, National Central University, Taoyuan County, Taiwan, April 29, 2010.
- 80. "Systems biology for cancer research", Department of Biological Science and Technology, I-Shou University, Kaohsiung County, Taiwan, April 23, 2010.
- 81. "Systems biology for cancer research", Institute of Physics, Academia Sinica, Taipei, Taiwan, April 13, 2010.
- 82. "Applying systems biology for anti-lung cancer drug discovery: targeting therapy by ATP synthase inhibitors and molecular mechanism", Conference on National Research Program for Genomic Medicine (NRPGM), Taipei, Taiwan, March 14-15, 2010.

- 83. "Systems biology for cancer therapy", Department of Biotechnology, Ming Chuang University, Taoyuan County, Taiwan, March 12, 2010.
- 84. "ATP synthase, a new target for cancer therapy", 7th International Symposium for Chinese Medicinal Chemists (ISCMC-2010), Kaohsiung Medical University, Kaohsiung, Taiwan, Feb. 1 5, 2010.
- 85. "Systems biology in breast cancer therapy", The Breast Cancer Society of TAIWAN, Taipei, Taiwan, Jan 16, 2010.
- 86. "Targeting cancer therapy by blocking key energy protein", Graduate Institute of Molecular Systems Biomedicine, China Medical University, Taichun, Taiwan, Dec. 11, 2009.
- 87."How network biology can help to reveal the roles of a mciroRNA in gastric cancer", Department of Surgery, National Taiwan University Hospital and College of Medicine, Taipei, Taiwan, Dec. 08, 2009.
- 88. "Discovery of a novel target for cancer therapy", Institute of Biomedical Sciences, National Sun Yat-sen University, Kaohsiung, Taiwan, Dec. 07, 2009.
- 89. "Network analysis reveals the roles of microRNAs in cancers", Institute of Biomedical Engineering, National Taiwan University, Taipei, Taiwan, Nov. 17, 2009.
- 90. "Network analysis reveals the function of miR-148a in gastric cancer", Institute of Biochemistry and Molecular Biology, National Yang-Ming University, Taipei, Taiwan, Oct. 19, 2009.
- 91. "Network analysis reveals the role of miR-148a in gastric cancer", National Health Research Institute, Zhunan, Miaoli, Taiwan, Oct. 08, 2009.
- 92. "Regulatory networks of a novel miRNA in human breast cancer cells", Computational Biology Seminar Pilot Research Project, Academia Sinica, Taipei, Taiwan, Sep. 14, 2009.
- 93."Discovery of a novel target for cancer therapy using high-throughput technologies", The 9th Emerging Information & Technology Conference, Massachusetts Institute of Technology Cambridge, Massachusetts, USA, August 6 7, 2009.
- 94."Anti-tumor activity of Reishi polysaccharides: from gene expression to network", The 12th Society of Chinese Bioscientists in America (SCBA) International Symposium, Taipei, Taiwan, June 14-18, 2009.
- 95."ATP synthase, a new target for cancer therapy", Westlake International Conference on Personalized Medicine, Hangzhou, China, May 29 May 31, 2009.
- 96. "MicroRNA & cancer", National Taiwan Normal University, Taipei, Taiwan, May 7, 2009.
- 97. "Computational requirements in systems biology", IBM Blue Gene Worskhop, IBM T.J. Watson Research Center, Yorktown Heights, NY, USA, April 30 May 1, 2009.
- 98. "Systems analysis reveals the anti-leukemia molecular mechanism induced by Ganoderma lucidum polysaccharides", Conference on the Reishi polysaccharide F3 Fraction, Academia Sincia, Taipei, Taiwan, April 2, 2009.
- 99. "Discovery of a novel therapeutic target", 2009 Taiwan Seminar on Bioinformatics and Systems Biology, His-Chu, Taiwan, March 5, 2009.
- 100."Targeting cancer therapy by blocking key energy protein", Institute of Systems Biology and Bioinformatics, National Central University, Chungli, Taiwan, Dec. 18, 2008.
- 101."Targeting cancer therapy by blocking key energy protein", 2008 Taiwan Japan Proteomics Symposium, Taipei, Taiwan, Dec. 03 05, 2008.
- 102."Anti-tumor activity of Reishi polysaccharides: from gene expression to network", The 7th International Conference of Bioinformatics (InCoB), Taipei, Taiwan, Oct. 20-23, 2008.
- 103."Systems biology for drug discovery", Institute of Biomedical Engineering and Environmental Sciences, National Tsing-Hua University, Hsin-Chu, Taiwan, Oct. 1, 2008.

- 104."Applications of systems biology to bioenergy and drug discovery", ABRC, Academia Sinica, Sep. 8, 2008.
- 105. "Targeting cancer therapy by blocking key energy protein", Institute for Advanced Biosciences, Keio University, Tsuruoka, Yamagata, Japan, June 23, 2008.
- 106."How proteomics can help drug discovery?", National Taiwan University Medical School, Taipei, June 3, 2008.
- 107."Applying synthetic systems biology to develop butanol-tolerant microbes", Biofuel Workshop 2008, Academia Sinica, May 30, 2008.
- 108. "Systems biology in drug discovery", Department of Life Science, National Taiwan University, March 4, 2008.
- 109."Gene ontology", The Second Virtual Training Workshop on Bioinformatics, June-August, 2007.
- 110. "Functional classification and clustering", National Taiwan University Medical Library, Taipei, July 19, 2007.
- 111." Needle in the haystack biological database search", Department of Life Science, National Normal University, Taipei, Jul 4 & 11, 2007.
- 112."New therapeutic targets in gastric cancer", Symposium on Proteomics, Genomics and Molecular Diagnostics, Taipei, June 27, 2007.
- 113."Prediction and validation of differential expressed microRNAs in cancer cells", Applied Biosystems Taiwan, Taipei, June 5, 2007.
- 114."A drop of blood, to predict your life gene chips and bioinformatics Outlook", Rotary Club of Taipei Nanxin, Taipei, June 1, 2007.
- 115. "Cancer systems biology", Chung Hsing University, Taichung, May 10, 2007.
- 116."Molecular Regulation from Gene Expression to Network", Taiwan International Graduate Program, Academia Sinica, Taipie, May 3, 2007.
- 117. "Gene network construction in systems biology", Department of Entomology, National Taiwan University, Taipei, April 17, 2007.
- 118."Cancer systems biology: biological pathway in leukemia cell differentiation", Second Workshop on System Biology and Bioinformatics, National Central University, Taoyuan County, April 14, 2007.
- 119."Regulation of Reishi polysaccharide on leukemia from gene expression to network construction", Kyushu Institute of Technology, Fukuoka, Japan, Jan 31, 2007.
- 120. "Molecular Regulation from Gene Expression to Network", NTU Hospital, Taipei, April 3, 2007.
- 121."Cancer systems biology: from gene expression to biological networks", 2007 Biophysics & Soft-matter Days, Kenting, Jan. 27, 2007.
- 122."Regulatory network of a novel compound on cancer cells", 2007 Protein-protein Interaction and Network Biology Workshop, Taipei, Jan. 22, 2007.
- 123."Elucidating the molecular regulation from gene expression to network construction", Institute of Systems Biology and Bioinformatics, National Central University, Chungli, Dec. 28, 2006.
- 124."Systems-biology study of a novel drug in cancer cells", Annual Meeting of Chemical Engineering, Kaohsiung, Nov. 25, 2006.
- 125."Elucidating the molecular regulation of *Ganoderma lucidum* polysaccharides in human monocytic cells: from gene expression to network construction", 2nd Taiwan-Japan Bilateral Bioinformatics Symposium, Tainan, Nov. 7, 2006.

- 126."Elucidating the molecular regulation of *Ganoderma lucidum* polysaccharides in human monocytic cells: from gene expression to network construction", TCM Personnel Training Seminar, Taipei, Oct. 20, 2006.
- 127."Systems-biology study of a novel drug on cancer cells", Nara Institute of Science and Technology, Nara, Japan, Aug. 25, 2006.
- 128." Application of bioinformatics in proteomics data analysis", 2006 Taiwan Society for Mass Spectrometry, Kaohsiung, June 23, 2006.
- 129. "Gene ontology", The First Virtual Training Workshop on Bioinformatics, May-July, 2006.
- 130."Biological pathway and gene network construction on cancer systems biology", The 11th Symposium on Recent Advances in Biophysics, Taipei, May 26, 2006.
- 131."Systems biology study of leukemia cells differentiation to macrophages", Chung Shan Medical University, Taichung, March 31, 2006.
- 132."Systems-biology study of a novel drug in cancer cells", The First Japan-Taiwan Bilateral Symposium on Bioinformatics, Japan, March 14, 2006.
- 133."Systems-biology study of a novel drug in cancer cells", Department of Chemical Engineering, National Taiwan University, Taipei, March 1, 2006.
- 134."Systems-biology Study on RGD-induced apoptosis of MCF-7 breast cancer cells", National Taiwan University, Taipei, Dec. 24, 2005.
- 135."Essential bioinformatics in the analysis of DNA microarray datasets", National Taiwan University College of Medicine, Taipei, Sep. 28, 2005.
- 136."Gene annotation and network in cancer research", The 5th Annual Emerging Information Technology Conference, Taipei, Aug. 15-16, 2005.
- 137." A drop of blood, to predict your life gene chips and bioinformatics Outlook", Department of Life Science, National Normal University, Taipei, Jul 15 & Jul 22, 2005.
- 138."Learning and teaching systems biology", Department of Bio-Industrial Mechatronics Engineering, National Taiwan University, Taipei, Jun 2, 2005.
- 139. "Bioinformatics applications in biological medicine", Tamkang University, May 20, 2005.
- 140."Biomic study of human myloid leukemia cell differentiated to macrophage", Department of Life Science, National Taiwan University, Taipei, March 1, 2005.
- 141."Discovery of tumor-associated biomarkers", Institute of Zoology, National Taiwan University, Taipei, Dec. 03, 2004.
- 142."Discovery of tumor-associated biomarkers", Institute of Bioinformatics, Yang-Ming University, Taipei, Oct. 06, 2004.
- 143. "Gene network construction", National Taiwan University College of Medicine, Taipei, Sep. 25, 2004.
- 144."Identification of tumor-associated plasma biomrkers using proteomics techniques: from mouse to human", Biomarker Discovery and Molecular Diagnosis -- Cancers, Infectious Diseases, and Multi-Factorial Genetic Diseases, National Taiwan Normal University, Taipei, April 30, 2004.
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- 146."Application of proteomics in biotechnology", The Latest Applications of Biotechnology and Bioinformatics Symposium), Taipei, Taiwan, Dec. 27, 2004.
- 147."Systems-biology study of RGD mimetic peptide in breast cancer", School of Pharmacy, National Taiwan University, Taipei, Oct. 30, 2003.
- 148. "Systems biology" in Drug Discovery-genomics, Drug Development Technology Platforms Designed Training Courses – Genomics, National Tsing-Hua University, Hsinchu, Aug. 29, 2003.

- 149."Gene and protein database" in Summer Institute on Bioinformatics, National Taiwan University, Taipei, Aug. 12 and 13, 2003.
- 150."The systems biology study: effect of RGD-peptides in breast cancer", Seminar Biochips, Taipei, Aug. 9, 2003.
- 151."Bioinformatics data analysis in proteomics" in Summer Institute on Bioinformatics, National Taiwan University, Taipei, Aug. 7, 2003.
- 152."Proteomics" in Biotechnology, National Taiwan Normal University, Taipei, July 18 and 25, 2003.
- 153."Biomic study of human myeloid leukemia cell (hl-60) differentiated to macrophage using dna array, proteomics, and bioinformatics", National Taiwan Ocean University, Keelung, June 27, 2002.
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- 155."Proteomics" in *Nature and Life Technology*, National Central University, Touyuan, Dec 27, 2002.
- 156. "Gene databases" in Bioinformatics, National Taiwan University, Taipei, Nov. 27, 2002.
- 157. "Protein databases" in Bioinformatics, National Taiwan University, Taipei, Nov. 20, 2002.
- 158."Proteomics and bioinformatics on biomedical sciences", Tzu-Chi University, Hualan, Nov. 8, 2002.
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- 160."Protein-protein interactions on the web", Department of Bioinformatics, TaiChung Healthcare and Management University, Taichung, May 29, 2002.
- 161."Biomic study of human leukemia cell differentiated to macrophag" in *Modern Trend Lecture Series (I): Bioinformatics*, National Defense University, Taipei, April 25, 2002.
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