

# CURRICULUM VITAE

(May, 2014)

## **PERSONAL DATA**

Name: Hsueh-Fen Juan (阮雪芬)

Title: Professor

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## **EDUCATION**

1994 – 1999 Ph.D. at Graduate Institute of Biochemical Sciences, National Taiwan University (NTU), Taiwan (Advisor: Prof. Kung-Tsung Wang)

1992 – 1994 M.S. at Graduate Institute of Botany, NTU, Taiwan (Advisor: Prof. Yih-Ming Chen)

1988 – 1992 B.S. at Department of Botany, NTU, Taiwan

## **CURRENT POSITION AND RELEVANT EXPERIENCE**

2009/8 – now Professor, Department of Life Science, Institute of Molecular and Cellular Biology and 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's lab).

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's lab).

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's lab)

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 RECONGNITION RECEIVED**

2012 K. T. Li Breakthrough Award by Institute of Information and Computing Machinery

2012 The Ph.D. Dissertation Advisor Award by Institute of Information and Computing Machinery

2011 Japan Society for the Promotion of Science (JSPS) Fellowship

2010-2013 National Science Council (NSC) Award for Special Talents of the Colleges

2008 Taiwan's Ten Outstanding Young Persons

2010 NTU Excellent Paper Award

2006~2009, 2011~2013 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 1<sup>st</sup> 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**

#### Membership in Scholarly and Professional Societies and Office Held

2012-2015, Review Committee, National Taiwan University Hospital-Research Ethics Committee

2012-2014, Advisory Committee, Behavioral and Social Science Research Ethics Committee

2012-2015, 1st Council member, Taiwan Society of Evolution and Computational Biology

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

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

2010-2013, Committee of Taiwan Olympiad

2009-Present, Member, American Association for the Advancement of Science (AAAS)

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

2009-2013, Council member, Taiwan Bioinformatics and System Biology Society

2009 Committee for MOE Scholarship

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

2008-2011, Council member, 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)

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

#### Editorial Services to Scholarly Publications

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

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

#### 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)
29. FEBS Letters (2013)
30. Medicinal Chemistry (2013)
31. Bioinformatics (2013)
32. Journal of Cancer Research and Clinical Oncology (2013)
33. Archives of Biochemistry and Biophysics (2013)
34. Chinese Medicine (2013)

35. Environmental Toxicology and Pharmacology (2013)
36. Cell Proliferation (2014)
37. BMC Bioinformatics (2014)

Books:

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

Proposals:

1. 2014, The Engineering Panel of Research Grant Council (RGC) of Hong Kong, China
2. 2013, The Biology & Medicine Panel of Research Grant Council (RGC) of Hong Kong, China
3. 2012, South African Medical Research Council, South Africa
4. 2010, The Israel Science Foundation's FIRST (Focal Initiatives in Research in Science and Technology) program, Israel
5. 2008, Reexamination Committee, National Science Council, Taiwan
6. 2003-present, National Science Council, Taiwan
7. 2009, Thematic Project, Academia Sinica, Taiwan
8. 2012, Collocation Projects between Chang Gung Hospital and National Tsing Hua University, Taiwan
9. 2010, Projects of National Tsing Hua University, Taiwan
10. 2012, Projects of National Cheng Kung University, Taiwan
11. 2013, National Central University, Taiwan

Other Professional Activities

1. General Chair, The 3rd The Emerging Information and Technology Association (EITA)-Bio Conference (the EITA-Bio 2015), Taipei, Taiwan, November 21-22, 2015.
2. Chair in parallel session A4 basic research (high throughput techniques), Advances in neuroblastoma research (ANR), Cologne, Germany, 13th-16th May, 2014.
3. Reviewer, Advances in neuroblastoma research (ANR), Cologne, Germany, 13th-16th May, 2014.
4. The Technical Program Committee, 2012 International Conference on Biomedical Engineering and Biotechnology (iCBEB), Wuhan, China, October 11-13, 2013.
5. Program Committee, ISCB-Asia/SCCG 2012, Shenzhen, China, December 20-21, 2012.
6. Local Organizing Chair, The 6th IECA Conference 2012 Synthetic Biology with Applications to Biotechnology, Taipei, Taiwan, December 10-12, 2012.
7. Co-Chair, The 12th Emerging Information and Technology Conference (EITC), Toronto, Ontario, Canada, August 16-17, 2012.
8. The Technical Program Committee, 2012 International Conference on Biomedical Engineering and Biotechnology (iCBEB), Macau, May 28-30, 2012.
9. Organization Committee, Mini-Symposium on Microbial Systems Biology, Taipei, Taiwan, May 1, 2012.
10. Committee Member, IAENG International Conference on Bioinformatics (ICB'12), Hong Kong, March 14-16, 2012
11. Taiwan Mirror Organizing Chair, The 5<sup>th</sup> Virtual Training Workshop on Bioinformatics, December 2010-January, 2011.
12. Organization Committee, 2011 Systems Biology and Bioinformatics Symposium (SBBS), Hsinchu, Taiwan, Nov. 9-10, 2011.
13. Program Committee, 2nd Workshop on Biological Processes and Petri Nets (BioPPN 2011),

Newcastle upon Tyne, United Kingdom, June 20-24, 2011.

14. Committee Member, IAENG International Conference on Bioinformatics (ICB'11), Hong Kong, March 16-18, 2011
15. Program Committee, 2011 Translational Medicine Conference and Taiwan Proteomics Society Annual Symposium, Taipei, Taiwan, April 27-28, 2011.
16. Taiwan Mirror Organizing Chair, The 4<sup>th</sup> Virtual Training Workshop on Bioinformatics, Sep-Nov, 2010.
17. Organization Committee, The 2010 Systems Biology and Bioinformatics Symposium (SBBS), Hsinchu, Taiwan, Nov 04-05, 2010.
18. Committee Member, IAENG International Conference on Bioinformatics (ICB'10), Hong Kong, March 17-19, 2010
19. Program Committee, 10th Workshop on Molecular Biology and Biotechnology organized for Association of East Asian Research Universities (AEARU), Nov. 11-13, 2009.
20. Taiwan Mirror Organizing Chair, The 3<sup>rd</sup> Virtual Training Workshop on Bioinformatics, April-June, 2009.
21. Program Committee Member, The IAENG International Conference on Bioinformatics (ICB'09), Hong Kong, March 18-20, 2009.
22. Program Committee Member, 2008 Workshop of Medical and Bio-Informatics, Taipei County, Taiwan, November 13-15, 2008.
23. Program Committee Member, The IAENG International Conference on Bioinformatics (ICB'08), Hong Kong, March 19-21, 2008.
24. Program Organizer, Plant Proteomics, Taichung, Taiwan, May 17-18, 2008.
25. Workshop Chair, The Second Virtual Training Workshop on Bioinformatics, June-August, 2007.
26. Meeting Chair and Organizer, 2007 Systems Biology and Bioinformatics Symposium, Taipei, Taiwan, March 27-29, 2007.
27. Program Committee Member, The IAENG International Conference on Bioinformatics (ICB'07), Hong Kong, March 21-23, 2007.
28. Local Organizing Committee, 7th Frontier Science Symposium, Taipei, Taiwan, November 23-26, 2006
29. Chairman, session on "Bioinformatics", The sixth annual Emerging Information Technology Conference (EITC-06), Dallas, USA, August 10-12, 2006.
30. Co-founder of Center for Systems Biology and Bioinformatics, NTU, Taipei, Taiwan, June 2006.
31. Taiwan Mirror Organizing Chair, The First Virtual Training Workshop on Bioinformatics, May-July, 2006.
32. Session Chairman, The Fourth Asia Pacific Bioinformatics Conference, Taipei, Taiwan, February 13-16, 2006.
33. Organization Committee Co-Chair, The Fourth Asia Pacific Bioinformatics Conference, Taipei, Taiwan, February 13-16, 2006.
34. Chair and Organizer, Workshop on Protein Mass Analysis, Taipei, Taiwan, February 21-23, 2005.
35. Chair and Organizer, Systems Biology and Bioinformatics Symposium, Taipei, Taiwan, March 29-31, 2005.
36. Chair and Organizer, High Content Proteomics Workshop, Taipei, Taiwan, Sep. 13, 2005.
37. Co-chair and Organizer, Rare Diseases, Trinucleotide Repeat Expansion Disorders, and Biotechnology Symposium and Workshop, Taipei, Taiwan, March 25-27, 2004.
38. Co-chair and Organizer, Systems biology Symposium and Workshop, Taipei, Taiwan, April

15-17, 2003.

39. Co-chair and Organizer, Proteomics and Liver Disease Symposium, Taipei, Taiwan, April 18, 2002.

## RESEARCH SUPPORT

1. Systems Biology Study of RGD-containing Proteins, 2002/11-2003/7, NSC (PI)
2. 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)
3. 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)
4. Development of gene network modeling methods to study the differentiation of HL-60 cancer cells to macrophages, 2004/11-2005/7, NSC (Co-PI)
5. The Immuno-functions of Carbohydrates, Thematic project, Academia Sinica, 2004/1/1-2007/12/31 (Co-PI)
6. Development of an information retrieval and text mining system to study the relationships among genes, methylation and diseases, 2006/8-2007/7, NSC (PI)
7. *In Silico* Study of RNA-binding Proteins, 2006/8-2007/7, NSC (Co-PI)
8. Systems-biology study of a novel compound on cancer cells, 2006/9-2008/8, NTU (PI)
9. Molecular Mechanism of Annexin A4 in Carcinogenesis of Gastric Cancer, 2007/8-2008/7, NSC (PI)
10. Systems and Computational Biology of *Rhodospseudomonas palustris* Aimed for Bioenergy Application, 2007/8-2010/7, NSC (PI)
11. 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)
12. Pilot Research Program of Computational Biology, 2008/4/1-2009/3/31, NSC (Co-PI)
13. Gene network of host cell by Helicobacter: annexin A4 involved signaling and regulation in gastric Cancer, 2008/8-2011/7, NSC (PI)
14. 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)
15. Elucidating the molecular mechanism of ATP synthase inhibitors on apoptosis of breast cancer cells, 2009/8-2010/7, NTU (PI)
16. Elucidating the role of miR-148a in tumor suppression, 2010/8/1-2011/7/31, NTU (PI)
17. Evolution and functions of microRNAs that regulate ATP synthase subunit genes, 2010/8/1-2013/7/31, NSC (PI)
18. 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)
19. Development of 1~10  $\mu$  m 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)
20. Integrative omics and network study of miRNA regulation in cancer progression, 2011/8/1-2014/12/31, National Taiwan University Cutting-Edge Steering Research Project, NTU (PI).
21. 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

(PI).

22. 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 (PI)

## PUBLICATIONS

### **Journal Papers** (\*corresponding author)

1. Yang, K.-C., Hsu, C.-L., Lin, C.-C., **Juan, H.-F.**\* and Huang, H.-C.\* "Mirin: identifying microRNA regulatory modules in protein-protein interaction networks" *Bioinformatics* (in press).
2. Lin, L.-L., Huang, H.-C.\* , **Juan, H.-F.**\* "Deciphering molecular determinants of chemotherapy in gastrointestinal malignancy using systems biology approaches" *Drug Discovery Today* (in press).
3. Hsieh, L.-C., Chen, J.-W., Wang, L.-Y., Tsang, Y.-M., Shueng, P.-W., Liao, L.-J., Lo, W.-C., Lin, Y.-C., Tseng, C.-F., Kuo, Y.-S., Jhuang, J.-Y., Tien, H.-J., **Juan, H.-F.**, and Hsieh, C.-H. (2014) "Predicting the severity and prognosis of trismus after intensity-modulated radiation therapy for oral cancer patients by magnetic resonance imaging" *PLoS ONE* 9(3):e92561.
4. Huang, W.-J., Tang, Y.-A., Chen, M.-Y., Wang, Y.-J., Hu, F.-H., Wang, T.-W., Chao, S.-W., Chiu, H.-W., Yeh, Y.-L., Chang, H.-Y., **Juan, H.-F.**, Lin, P.\* , and Wang, Y.-C.\* (2014) "A histone deacetylase inhibitor YCW1 with antitumor and antimetastasis properties enhances cisplatin activity against non-small cell lung cancer in preclinical studies" *Cancer Letter* 346(1):84-93.
5. Wu, P.-Y., Liao, Y.-F., **Juan, H.-F.**, Huang, H.-C., Wang, B.-J., Lu, Y.-L., Yu, I.-S., Shih, Y.-Y., Jeng, Y.-M., Hsu, W.-M.\* , and Lee, H.\* (2014) "Aryl hydrocarbon receptor downregulates mycn expression and promotes cell differentiation of neuroblastoma" *PLoS ONE* 9(2): e88795.
6. Hu, C.-W., Tseng, C.-W., Chien, C.-W., Huang, H.-C., Ku, W.-C., Lee, S.-J.\* , Chen, Y.-J.\* and **Juan, H.-F.**\* (2013) "Quantitative proteomics reveals diverse roles of miR-148a from gastric cancer progression to neurological development" *Journal of Proteome Research* 12(9):3993-4004.
7. Wu, Y.-H., Hu, C.-W., Chien, C.-W., Chen, Y.-J., Huang, H.-C.\* and **Juan, H.-F.**\* (2013) "Quantitative proteomic analysis of human lung tumor xenografts treated with the ectopic ATP synthase inhibitor citreoviridin" *PLoS ONE* 8(8):e70642.
8. Lin, L.-L., Wu, C.-C., Huang, H.-C.\* , Chen, H.-J. Hsieh, H.-L.\* , and **Juan, H.-F.**\* (2013) "Identification of microRNA 395a in 24-epibrassinolide-regulated root growth of *Arabidopsis thaliana* using microRNA arrays" *International Journal of Molecular Sciences* 14:14270-14286.
9. Lin, C.-C., Lee, C.-H., Fuh, C.-S., **Juan, H.-F.**\* and Huang, H.-C.\* (2013) "Link clustering reveals structural characteristics and biological contexts in signed molecular networks" *PLoS ONE* 8(6): e67089.
10. Lee, C.-H., Kuo, W.-H., Lin, C.-C., Oyang, Y.-J., Huang, H.-C.\* and **Juan, H.-F.**\* (2013) "MicroRNA-regulated protein-protein interaction networks and their functions in breast cancer" *International Journal of Molecular Sciences* 14:11560-11606.
11. Liaw, H.-H., Lin, C.-C., **Juan, H.-F.**\* and Huang, H.-C.\* (2013) "Differential microRNA regulation correlates with alternative polyadenylation pattern between breast cancer and normal cells" *PLoS ONE* 8(2): e56958.

12. Chang, H.-Y., Shih, M.-H., Huang, H.-C., Tsai, S.-R., **Juan, H.-F.**<sup>\*</sup>, Lee, S.-C.<sup>\*</sup> (2013) "Middle infrared radiation induces G2/M cell cycle arrest in A549 lung cancer cells" *PLoS ONE* 8(1): e54117. (**Featured on PLoS Blog**)
13. Fu, S.-C., Huang, H.-C., Horton, P.<sup>\*</sup> and **Juan, H.-F.**<sup>\*</sup> (2013) "ValidNESs: a database of validated leucine-rich nuclear export signals" *Nucleic Acids Research* 41(D1):D338-D343.
14. Chen, C.-Y., Chen, S.-T., **Juan, H.-F.**<sup>\*</sup> and Huang, H.-C.<sup>\*</sup> (2012) "Lengthening of 3'UTR increases morphological complexity in animal evolution" *Bioinformatics* 28(24):3178-3181. (ESI 2013 Highly cited papers)
15. Lu, K.-Y., Tao, S.-C., Yang, T.-C., Ho, Y.-H., Lee, C.-H., Lin, C.-C., **Juan, H.-F.**, Huang, H.-C., Yang, C.-Y., Chen, M.-S, Zhu, H.<sup>\*</sup> and Chen, C.-S.<sup>\*</sup> (2012) "Profiling lipid-protein interactions using non-quenched fluorescent liposomal nanovesicles and proteome microarrays" *Molecular & Cellular Proteomics* 11(11):1177-1190.
16. 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.<sup>\*</sup>, **Juan, H.-F.**<sup>\*</sup>, and Wu, S.-H.<sup>\*</sup> (2012) "Phosphoproteomic analysis of *Rhodospseudomonas palustris* reveals the role of pyruvate phosphate dikinase phosphorylation in lipid production" *Journal of Proteome Research* 11:5362-5375.
17. Lin, L.-L., Wang, Y.-H., Lai, C.-Y., Chau, C.-L., Su, G.-C., Yang, C.-Y., Lou, S.-Y., Chen, S.-K., Hsu, K.-H., Lai, Y.-L., Wu, W.-M., Huang, J.-L., Liao, C.-H. and **Juan, H.-F.**<sup>\*</sup> (2012) "Systems biology of meridians, acupoints, and Chinese herbs in disease" *Evidence-Based Complementary and Alternative Medicine* 2012:372670.
18. Lin, L.-L., Huang, H.-C., Ogihara, S., Wang, J.-T., Wu, M.-C., McNeil, P. L.<sup>\*</sup>, Chen, C.-N.<sup>\*</sup> and **Juan, H.-F.**<sup>\*</sup> (2012) "*Helicobacter pylori* disrupts host cell membranes, initiating a repair response and cell proliferation" *International Journal of Molecular Sciences* 13:10176-10192.
19. Lin, L.-L., Huang, H.-C.<sup>\*</sup>, and **Juan, H.-F.**<sup>\*</sup> (2012) "Revealing the molecular mechanism of gastric cancer marker Annexin A4 in cancer cell proliferation using exon arrays" *PLoS ONE* 7(9):e44615.
20. Chang, H.-Y., Huang, H.-C., Huang, T.-C., Yang, P.-C.<sup>\*</sup>, Wang, Y.-C.<sup>\*</sup>, and **Juan, H.-F.**<sup>\*</sup> (2012) "Ectopic ATP synthase blockade suppresses lung adenocarcinoma growth by activating the unfolded protein response" *Cancer Research* 72(18):4696-4706.
21. Lin, L.-L., Huang, H.-C.<sup>\*</sup> and **Juan, H.-F.**<sup>\*</sup> (2012) "Discovery of biomarkers for gastric cancer: a proteomics approach" *Journal of Proteomics* 75(11):3081-3097.
22. Chang, M.-W., Lo, J.-M., **Juan, H.-F.**, H.-Y. Chang, Chuang, C.-Y.<sup>\*</sup> (2012) "Combination of RGD compound and low-dose Paclitaxel induces apoptosis in human glioblastoma cells" *PLoS ONE* 7(5):e37935.
23. Tseng, C.-W., Huang, H.-C., Shih, A. C.-C., Chang, Y.-Y., Hsu, C. C., Chang, J.-Y., Li, W.-H.<sup>\*</sup> and **Juan, H.-F.**<sup>\*</sup> (2012) "Revealing the anti-tumor effect of artificial miRNA p-27-5p on human breast carcinoma cell line T-47D" *International Journal of Molecular Sciences* 13:6352-6369.
24. Lin, C.-C., Chen, Y.-J., Chen, C.-Y., Oyang, Y.-J., **Juan, H.-F.**<sup>\*</sup> and Huang, H.-C.<sup>\*</sup> (2012) "Crosstalk between transcription factors and microRNAs in human protein interaction network" *BMC Systems Biology* 6(1):18. (**Highly accessed**)
25. Shih, Y.-Y., Nakagawara, A., Lee, H., **Juan, H.-F.**, Jeng, Y.-M., Lin, D.-T., Yang, Y.-L., Tsay, Y.-G., Huang, M.-C., Pan, C.-Y.<sup>\*</sup>, Hsu, W.-M.<sup>\*</sup>, and Liao, Y.-F.<sup>\*</sup> (2012) "Calreticulin mediates nerve growth factor-induced neuronal differentiation" *Journal of Molecular Neuroscience* 47(3):571-81.
26. Hu, C.-W., Chang, Y.-L., Chen, S. J., Kuo-Huang, L.-L., Liao, J. C., Huang, H.-C.<sup>\*</sup>, **Juan, H.-F.**<sup>\*</sup> (2011) "Revealing the functions of the transketolase enzyme isoforms in *Rhodospseudomonas palustris* using a systems biology approach" *PLoS ONE* 6:e28329.

27. Huang, T.-C., Chang, H.-Y., Chen, C.-Y., Wu, P.-Y., Lee, H., Liao, Y.-F., Hsu, W.-M.<sup>\*</sup>, Huang, H.-C.<sup>\*</sup>, **Juan, H.-F.**<sup>\*</sup> (2011) "Silencing of miR-124 induces neuroblastoma SK-N-SH cell differentiation, cell cycle arrest and apoptosis through promoting AHR" *FEBS Letters* 585:3582-3586.
28. Tsai, S.-R.<sup>#</sup>, Huang, T.-C.<sup>#</sup>, Liang, C.-M., Chang, H.-Y., Chang, Y.-T., Huang, H.-C., **Juan, H.-F.**<sup>\*</sup>, Lee, S.-C.<sup>\*</sup> (2011) "The effect of narrow bandwidth infrared radiation on the growth of *Escherichia coli*" *Applied Physics Letters* 99:163704. (<sup>#</sup> equal contribution)
29. Shih, Y.-Y., Pan, C.-Y., Lee, H., **Juan, H.-F.**, A. Nakagawara, Clagett-Dame, M., Tsay, Y.-G., Hsieh, F.-J., Hsu, W.-M.<sup>\*</sup>, Liao, Y.-F.<sup>\*</sup> (2011) "Nuclear GRP75 binds retinoic acid receptors to promote neuronal differentiation of neuroblastoma" *PLoS ONE* 6(10):e26236.
30. Chen, S.-T., Jeng, Y.-M., Chang, C.-C., Chang, H.-H., Huang, M.-C., **Juan, H.-F.**, Hsu, C.-H., Lee, H.-Y., Liao, Y.-F., Lee, Y.-L., Hsu, W.-M.<sup>\*</sup>, Lai, H.-S.<sup>\*</sup> (2011) "Insulin-like growth factor II mRNA-binding protein 3 expression predicts unfavorable prognosis in patients with neuroblastoma" *Cancer Science* 102:2191-2198.
31. Lee, C.-H., Huang, H.-C.<sup>\*</sup>, **Juan, H.-F.**<sup>\*</sup> (2011) "Reviewing ligand-based rational drug design: the search for an ATP synthase inhibitor" *International Journal of Molecular Sciences* 12:5304-5318.
32. Chen, C.-M., Lin, C.-H., **Juan, H.-F.**, Hu, F.-J., Hsiao, Y.-C., Chang, H.-Y., Chao, C.-Y., Chen, I.-C., Lee, L.-C., Wang, T.-W., Chen, Y.-T., Chen, Y.-T., Lee-Chen, G.-J.<sup>\*</sup>, Wu, Y.-R. (2011) "ATP13A2 variability in Taiwanese Parkinson's disease" *Am J Med Genet B Neuropsychiatr Genet.* 156:720-729.
33. Tseng, C.-W., Lin, C.-C., Chen, C.-N.<sup>\*</sup>, Huang, H.-C.<sup>\*</sup>, **Juan, H.-F.**<sup>\*</sup> (2011) "Integrative network analysis reveals active microRNAs and their functions in gastric cancer" *BMC Systems Biology* 5:99. (**Highly accessed**)
34. Tseng, C.-W., Yang, J.-C., Chen, C.-N.<sup>\*</sup>, Huang, H.-C., Chuang, K.-N., Lin, C.-C., Lai, H.-S., Lee, P.-H., Chang, K.-J., **Juan, H.-F.**<sup>\*</sup> (2011) "Identification of 14-3-3 $\beta$  in human gastric cancer cells and its potency as a diagnostic and prognostic biomarker" *Proteomics* 11:2423-2439.
35. Chen, C.-Y., Chen, S.-T., Fuh, C.-S., **Juan, H.-F.**<sup>\*</sup>, Huang H.-C.<sup>\*</sup> (2011) "Coregulation of transcription factors and microRNAs in transcriptional regulatory network" *BMC Bioinformatics* 12 (Suppl 1):S41. (ESI 2013 Highly cited papers)
36. Chen, J.-Y., Huang, S.-M., Tang, Y.-A., **Juan, H.-F.**, Wu, L.-W., Sun, Y.-C., Wang, S.-C., Wu, K. W., Balraj, G., Chang, T.-T., Li, W.-S.<sup>\*</sup>, Cheng, H.-C.<sup>\*</sup>, Wang, Y.-C.<sup>\*</sup> (2011) "A novel sialyltransferase inhibitor suppresses FAK/paxillin and angiogenesis signaling and cancer metastasis" *Cancer Research* 71:473-483.
37. Hsu, J.-W., Huang H.-C., Chen, S.-T., Wong, C.-H., **Juan, H.-F.**<sup>\*</sup> (2011) "*Ganoderma lucidum* polysaccharides induce macrophage-like differentiation in human leukemia THP-1 cells via caspase and p53 activation" *Evidence-Based Complementary and Alternative Medicine* 2011:358717.
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34. 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**)
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38. 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)**
39. Chen, N.-N., Chang, H.-Y., Chen, Y.-J., Huang, H.-C., **Juan, H.-F.\*** (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.
40. Wang, H.-K., Takeuchi, R., Nakayashiki, T., Mori, H., Huang, H.-C., **Juan, H.-F.\*** (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.
41. Wu, C.-C., Chen, H.-J., Hsieh, H.-L., Huang, H.-C., **Juan, H.-F.\*** (2011) "The Role of Brassinosteroid-Regulated miR395a in *Arabidopsis thaliana*" (Abstract#P208) *26th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 19-20.
42. 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.
43. Kuo, T.-C., Lin, C.-C., **Juan, H.-F.**, Huang, H.-C.\* (2011) "Finding Metastasis-related Functional Modules in Protein Interaction Network of Breast Cancer" (Abstract#P199) *26th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 19-20.
44. 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, **Oral Presentation**) *The Taiwan Society for Biochemistry and Molecular Biology: Beigang Autumn Camp*, Nantou, Taiwan, November 11-13.
45. 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, **Oral Presentation**) *The Taiwan Society for Biochemistry and Molecular Biology: Beigang Autumn Camp*, Nantou, Taiwan, November 11-13.
46. 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, **Oral Presentation**) *The Taiwan Society for Biochemistry and Molecular Biology: Beigang Autumn Camp*, Nantou, Taiwan, November 11-13.
47. Chang, H.-Y., Huang, T.-C., Huang, H.-C., Wang, Y.-C., **Juan, H.-F.\*** (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)**
48. 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.
49. Lin, M.-H., Yi, T.-H., Huang, H.-C., Wu, S.-H., **Juan, H.-F.\*** (2010) "Phosphoproteome of *Rhodospirillum rubrum* indicates threonine phosphorylation of pyruvate phosphate dikinase affecting the biofuel production and carbon fixation" (Abstract#P8) *The Taiwan*

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51. Tseng, C.-W., Lin, C.-C. , Huang, H.-C., Chen, C.-N. , **Juan, H.-F.\*** (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.
52. 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- $\alpha$ /retenoid X receptor- $\alpha$  is essential for retenoic acid-induced neuronal differentiation of neuroblastoma cells" (**Poster Competition Award**). *Advances in Neuroblastoma Research*, Stockholm, Sweden, June 21-24.
53. 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 molecular mechanisms underlying gamma-secretase inhibitor-induced differentiation" *Advances in Neuroblastoma Research*, Stockholm, Sweden, June 21-24.
54. 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.
55. 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 15<sup>th</sup> Joint Biophysics Conference*, Taipei, Taiwan, May 19-21.
56. 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 15<sup>th</sup> Joint Biophysics Conference*, Taipei, Taiwan, May 19-21.
57. 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, **Poster Competition Award**) *The 15<sup>th</sup> Joint Biophysics Conference*, Taipei, Taiwan, May 19-21.
58. Hsu, C.-C., Chou, Y.-T., Huang, H.-C., Shih, A. C.-C., Li, W.-H. \*, **Juan, H.-F.\*** (2010) "Gene expression networks of microRNA p-27-5p-treated human breast cancer cells" (Abstract#P691, **Poster Award**) *25th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 27-28.
59. Yi, T.-H., Lin, M.-H., Wu, S.-H., Huang, H.-C., **Juan, H.-F.\*** (2010) "Phosphoproteome of *Rhodospseudomonas palustris*" (Abstract#P690) *25th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 27-28.
60. 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.
61. 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.
62. 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.
63. 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-September 4.
64. Hu, C.-W., Huang, H.-C., Liao, J. C., **Juan, H.-F.\*** (2009) "Elucidating regulation of carbon dioxide assimilation in *R. palustris* using synthetic biology and proteomics approach" (Abstract#T02) *2009 TPS International Proteomics Conference and 5<sup>th</sup> AOHUPO MPI Workshop*, Taipei, Taiwan, June 19-20.
65. Chang, H.-Y., Huang, T.-C., Wei, Y.-C., Huang, H.-C., Wang, Y.-C., **Juan, H.-F.\*** "ATP synthase, a new target for non-small cell lung cancer (NSCLC) therapy" (Abstract#C07, **Selected Oral Presentation**) *2009 TPS International Proteomics Conference and 5<sup>th</sup> AOHUPO MPI Workshop*, Taipei, Taiwan, June 19-20.
66. 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, **Poster Award**) *2009 TPS International Proteomics Conference and 5<sup>th</sup> AOHUPO MPI Workshop*, Taipei, Taiwan, June 19-20.
67. Tseng, C.-W., Chen, C.-N.\*, Huang, H.-C., **Juan, H.-F.\*** (2009) "14-3-3 $\beta$ , a Novel Biomarker for Early Detection and Prognosis in Gastric Cancer" (Abstract#C04) *2009 TPS International Proteomics Conference and 5<sup>th</sup> AOHUPO MPI Workshop*, Taipei, Taiwan, June 19-20.
68. 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 5<sup>th</sup> AOHUPO MPI Workshop*, Taipei, Taiwan, June 19-20.
69. Tseng, C.-W., Chen, C.-N.\*, **Juan, H.-F.\*** (2009) "14-3-3 $\beta$ , a Novel Biomarker for Early Detection and Prognosis in Gastric Cancer" (Abstract#O5, **Oral Presentation**) *24th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 21-22.
70. 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, **Oral Presentation**) *24th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 21-22.
71. Hu, P.-Y., Huang, H.-C., **Juan, H.-F.\*** (2009) "Elucidating Regulatory Pathway of Estrogen Receptors in *Helicobacter pylori*-infected Gastric Cancer" (Abstract#O29, **Oral Presentation**) *24th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 21-22.
72. Chen, C.-Y., **Juan, H.-F.\***, Huang, H.-C.\* (2009) "Co-regulation of microRNAs in Transcriptional Regulatory Network" (Abstract#O31, **Oral Presentation**) *24th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 21-22.
73. Chang, Y.-Y., Lee, T.-Y., Huang, H.-C., Shih, A. C.-C., Li, W.-H., **Juan, H.-F.\*** (2009) "Overexpression of Novel MicroRNA P-27-5p Enhances G0/G1 Arrest in Breast Cancer Cells" (Abstract#O44, **Oral Presentation**) *24th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 21-22.
74. Chang, Y.-L., Huang, H.-C., Liao, J. C., **Juan, H.-F.\*** (2009) "Effects of Overexpressed Transketolase on Carbon Flow to ATP Generation in *Rhodospseudomonas palustris*" (Abstract#P44) *24th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 21-22.

75. Chang, H.-Y., Huang, H.-C., Huang, T.-C., H. Mori, **Juan, H.-F.\*** (2008) "Application for biofuel production: development of 1-Butanol tolerant *Escherichia coli*" (Poster7 & **Short Talk4**) *4th International Symposium of the Kanagawa University-National Taiwan University Exchange Program 2008*, Taipei, Taiwan, Dec. 27, 2008.
76. 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" (Poster8) *4th International Symposium of the Kanagawa University-National Taiwan University Exchange Program 2008*, Taipei, Taiwan, Dec. 27, 2008.
77. Tseng, C.-W., Chen, C.-N., **Juan, H.-F.\*** (2008) "14-3-3 $\beta$  is a novel biomarker for early detection and prognosis in gastric cancer" (Abstract#P-44, **1<sup>st</sup> Prize**) *2008 Taiwan – Japan Proteomics Symposium*, Taipei, Taiwan, Dec. 03 - 05, 2008.
78. 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, **3<sup>rd</sup> Prize**) *2008 Taiwan – Japan Proteomics Symposium*, Taipei, Taiwan, Dec. 03 - 05, 2008.
79. Lin, C.-C., **Juan, H.-F.**, Huang, H.-C. (2008) "Comparative Analysis of Co-expressed Protein Interaction Networks Reveals Heart Failure Related Modules" (**Travel Award, Oral presentation**) *The 2nd Taiwan-Japan Young Researchers Conference on Computational and Systems Biology*, Tokyo, Japan, Nov. 4-6.
80. Tseng, C.-W., Chen, C.-N., Huang, H.-C., C.-C., 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) *20<sup>th</sup> Federation of Asian and Oceanian Biochemists and Molecular Biologists (FAOBMB) symposium*, Taipei, Taiwan, Oct. 23~25.
81. Chang, H.-Y., Huang, H.-C., Huang, T.-C., H. Mori, **Juan, H.-F.\*** (2008) "Development of 1-Butanol Tolerant Microorganism for Biofuel Production" (**Travel Award, Oral presentation**) *The Fourth International Meeting on Synthetic Biology (SB4.0)*, Hong Kong, China, October 10-12.
82. Hsu, J.-W., Huang, H.-C., **Juan, H.-F.\*** (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.
83. 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 (2008 前瞻生物醫學科學新知研討會暨第七屆海峽兩岸生物醫學會議)*, Jun. 27-28 (Academic Foundation Professor Lin Rongyao Education Foundation **Poster Award** 財團法人林榮耀教授學術教育基金會 **壁報展示獎**)
84. 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.
85. 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.
86. Hsu, W.-M., Liao Y.-F., Lee, H.-Y., Tsay Y.-G., **Juan, H.-F.**, 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.
87. 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.
88. **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 *Rhodospseudomonas palustris* Improves the Efficiency of Carbon Dioxide Fixation" (Abstract#23) *An International Symposium: Biotechnology for Better Crops, Energy and Health: ABRC 10th Anniversary*, Taipei, Taiwan, April 29-May 1.
89. 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 10th Anniversary*, Taipei, Taiwan, April 29-May 1.
90. Lee, T.-A., **Juan, H.-F.\*** (2008) "Identification of human novel miRNAs and their targets" (Abstract#O115, **Oral Presentation**) *23th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 29-30.
91. Hsu, J.-W., Huang, H.-C., Cheng, K.-C., Chen, S.-T., Wong, C.-H., **Juan, H.-F.\*** (2008) "*Ganoderma lucidum* polysaccharides induce apoptosis and differentiation in human monocytic leukemia cell line THP-1" (Abstract#O107, **Oral Presentation**) *23th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 29-30.
92. Huang, T.-C., Chang, H.-Y., Wang, Y.-C., **Juan, H.-F.\*** (2008) "The effect of ATP synthase inhibitor Aurovertin B in non-small cell lung cancer" (Abstract#O79, **Oral Presentation**) *23th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 29-30.
93. 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, **Oral Presentation**) *23th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 29-30.
94. Chen, T.-Y., Huang, H.-C., **Juan, H.-F.\*** (2008) "Profiling transcriptome and proteome of *Rhodospseudomonas palustris* in different metabolic states for bioenergy application" (Abstract#P275) *23th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 29-30.
95. Wu, C.-Y., Chen, H.-W., Huang, H.-C., **Juan, H.-F.\*** (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.
96. Lin, L.-L., C.-N. Chen\*, Lin, W.-C., Lee, P.-H., Chang, K.-J., Lai, Y.-P., Wang, J.-T. and **Juan, H.-F.\*** (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.
97. 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**)
98. Hsu, J.-W., Huang, H.-C., Cheng, K.-C., Chen, S.-T., Wong, C.-H., **Juan, H.-F.\*** (2007) "*Ganoderma lucidum* polysaccharides induce apoptosis in human monocytic leukemia cell line" (Abstract#P99) *The Taiwan Society Biochemistry and Molecular Biology Fall Camp*, Hsinchu,

Taiwan, October 19-20. (**Poster Award**)

99. 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.
100. Chang, C.-C., Leu, J.-H., , Wu, J.-L., Hsu, C.-W., Hirono, I., Aoki, T., **Juan, H.-F.**, 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**)
101. 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.
102. 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**)
103. 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.
104. 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.
105. 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.
106. 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.
107. 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.
108. 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.
109. 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.
110. 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.
111. Chen, C.-P., Huang, H.-C., Chen, H.-W., **Juan, H.-F.**\* (2007) "Identification of differentiation related gene networks and micrnas 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.
112. 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.

113. 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.
114. 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.
115. **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.
116. 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.
117. 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.
118. Y.-C. Fang, H.-C. Huang and **Juan, H.-F.\*** (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.
119. 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" *20<sup>th</sup> Symposium of the Protein Society & 20th Anniversary Celebration*, San Diego, California, USA, Aug 5-9.
120. 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.
121. **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.
122. 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" *4th Asia-Pacific Bioinformatics Conference (APBC2006)*, Taiwan, Feb 13-16. (Abstract#P028, **2<sup>nd</sup> Poster Award**)
123. 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, **1<sup>st</sup> Poster Award**)
124. Hwang, Y.-C., Lin, C.-C., **Juan, H.-F.**, Mori, H., Huang, H.-C. (2006) "Topological 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)
125. 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)

126. 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)
127. 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 6<sup>th</sup> International Conference on Systems Biology*, Boston, MA, U. S. A., October 19-24, 2005.
128. 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 6<sup>th</sup> International Conference on Systems Biology*, Boston, MA, U. S. A., October 19-24.
129. 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, Oral Presentation) *20th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 26-27.
130. Chang, S.-C., Huang, H.-C., Chen, S.-T., and **Juan, H.-F.\*** (2005) "A Subcellular Proteomics Analysis of Human Myeloid Leukemia Cells Differentiation to Macrophages Using Microwave Technology Combined with Mass Spectrometry" (Abstract#O87, Oral Presentation) *20th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 26-27.
131. 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, Oral Presentation) *20th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 26-27.
132. 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, Oral Presentation) *20th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 26-27.
133. Chang, H.-Y., Chien, K.-C., Wang, Y.-C., and **Juan H.-F.\*** (2005) "Discovery of Biomarkers in Human Lung Cancer by Proteomics Approach" (Abstract#P567, **Best Poster Paper**) *20th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 26-27.
134. 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, **2<sup>nd</sup> Prize**) *Bioinformatics in Taiwan*, Taipei, Taiwan, September 9-11.
135. 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) *12<sup>th</sup> International Conference on Intelligent Systems for Molecular Biology (ISMB) and Conference on Computational Biology (ECCB)*, Glasgow, Scotland, Jul 31-Aug 4.
136. **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**)
137. 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.
138. 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) *3<sup>rd</sup> International Proteomics Conference 2004 (IPC'03)*, Taipei, Taiwan, May 15-17.

139. 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) *3<sup>rd</sup> International Proteomics Conference 2004 (IPC'03)*, Taipei, Taiwan, May 15-17.
140. Chang, S.-C., Topanurak, S., Chen, S.-T., **Juan, H.-F.\*** (2004) "A New Application of Microwave Technology to Proteomics" (Abstract#PA24) *3<sup>rd</sup> International Proteomics Conference 2004 (IPC'03)*, Taipei, Taiwan, May 15-17.
141. 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, **Top 10 Prize**) *3<sup>rd</sup> International Proteomics Conference 2004 (IPC'03)*, Taipei, Taiwan, May 15-17.
142. 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) *3<sup>rd</sup> International Proteomics Conference 2004 (IPC'03)*, Taipei, Taiwan, May 15-17.
143. 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.
144. **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 4<sup>th</sup> International Conference on Systems Biology*, Saint Louis, MO, U. S. A., November 5-9.
145. 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.
146. 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.
147. 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 7<sup>th</sup> Join Conference on Information Sciences*, North Carolina, USA, 962-966.
148. **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) *70<sup>th</sup> Chinese Chemical Society Annual Meeting*, Taipei, Taiwan, Oct. 25-27.
149. 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.
150. **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.
151. **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.
152. Chiou, S.-H., **Juan, H.-F.** and Huang, H.-C. (1995) "Octopus S-crystallins with endogenous glutathione S-transferase activity: computer graphic modelling 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 sialyltransferase" TW I 369361, 2010/4/21-2026/12/22.
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" TWI 379901, 2012/12/21-2028/10/28.
3. **Juan, H.-F.**, Chen, C.-N., Tseng, C.-W., Chang, K.-J. "Method for prognosis of gastric cancer" TW I 399541, 2013/6/21-2029/5/26.

### Invited Lectures:

1. "Applied Statistics for Systems Biology", Biostatistics lecture, National Taiwan University, Taipei, Taiwan, December 30, 2013.
2. "系統生物學：後基因體時代的研究方法", Affiliated Senior High School of National Taiwan Normal University (師大附中), Taipei, Taiwan, December 26, 2013
3. "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.
4. "Proteomics and network biology in stem cell study", 第 4 次生科醫學雙院學術交流會: Stem Cells Taipei, Taiwan, December 09, 2013.
5. "結合數理和生物的系統生物學", 及人中學自然學科教學研習會, Taipei, Taiwan, December 05, 2013.
6. "Systems biology approach reveals ectopic ATP synthase as an anti-cancer drug target", 2013 推展醫藥統計研習會, Taipei, Taiwan, November 22, 2013.
7. "Response pathways of ectopic ATP synthase blockade in lung cancer cells", National Taiwan University Hospital, Taipei, Taiwan, October 30, 2013.
8. "ATP synthase inhibitor response network of lung cancer cell", 11<sup>th</sup> Symposium on Bioinformatics and Systems Biology in Taiwan (BIT2013), Taipei, Taiwan, October 18-21, 2013.
9. "科學實驗寫作工作坊：實驗設計與數據分析研究", 2013 高瞻計畫教師工作坊-科學實驗論文寫作工作坊, Taipei, Taiwan, September 12, 2013.
10. "Systems biology for development of anti-lung cancer drugs: ATP synthase as a target (利用系統生物學開發抗肺癌藥物：以 ATP 合成酶為標靶)", Cancer and Biomedical Informatics in Biomedical Electronics and Bioinformatics Camp, Taipei, Taiwan, July 3-5, 2013.
11. "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.
12. "Docking simulation for discovery of ectopic ATP synthase inhibitor as anti-cancer drug", 2012 NCHC HPC User Workshop, Hisnchu, Taiwan, October 30, 2012.
13. "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.

14. "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.
15. "Modification is the key: phosphoproteome of *Rhodospseudomonas palustris*", Minisymposium on Bioinformatics, Systems Biology, and Molecular Evolution, National Health Research Institutes (NHRI), Miaoli, Taiwan, May 25, 2012.
16. "Integrative network analysis reveals active microRNAs and their functions", TIGP, Academia Sinica, Taipei, Taiwan, May 17, 2012.
17. "Integrative network analysis reveals active microRNAs and their functions", National Taiwan University, Taipei, Taiwan, May 14, 2012.
18. "Integrative network analysis reveals active microRNAs and their functions", National Cheng-Kung University Tainan, Taiwan, April 20, 2012.
19. "Drug discovery via systems biology", Bilateral Academic Cooperation Symposium on NTU Electrical Engineering and Computer Science and Tsinghua University Information Science and Technology (臺大電資-清華信息雙邊學術合作研討會), Taipei, Taiwan, March 28-29, 2012.
20. "Integrative network analysis reveals active microRNAs and their functions in gastric cancer", Nara Institute of Science and Technology, Nara, Japan, January 26, 2012.
21. "*Helicobacter pylori* activates a plasma membrane repair response", Keio University, Tsuruoka, Japan, January 23, 2012.
22. "Systems biology for drug discovery", Department of Chemistry, National Normal University, Taipei, Taiwan, December 19, 2011.
23. "Integrative network analysis reveals active microRNAs and their functions in gastric cancer", Taiwan-UK Collaborative Forum: Systems Biology Symposium, Taipei, Taiwan, November 28, 2011.
24. "Systems Biology: Applications in cancer-related research", 26th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 19-20, 2011.
25. "Systems biology in cancer research", 2011 Symposium on Molecular Cellular and Genomics Medicine (2011年分子細胞與基因醫學學術研討會), Taipei, Taiwan, March 12, 2011.
26. "Systems Biology: Applications in cancer-related research", National Cheng Kung University, Tainan, Taiwan, November 16, 2010.
27. "Response network of *Helicobacter pylori* infection in gastric cancer", The 8th Bioinformatics and Systems Biology, Taipei, Taiwan, September 30-October 1, 2010.
28. "Response network of *Helicobacter pylori* infection in gastric cancer", Human Proteome World Congress 2010 (HUPO2010), Sydney, Australia, September 19-23, 2010.
29. "Targeting Breast Cancer Therapy by Blocking Key Energy Protein", 2010 Taipei International Breast Cancer Symposium, Taipei, Taiwan, September 4-5, 2010.
30. "Membrane Repair Against *H. pylori* Leads to Carcinogenesis", Osaka University, Osaka, Japan, August 25, 2010.
31. "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.
32. "Systems Biology for Biomedical Research", College of Life Sciences, National Chung Hsing University (NCHU), Taichung, Taiwan, May 07, 2010.
33. "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.

34. "Systems Biology for Cancer Research", Department of Biological Science and Technology, I-Shou University, Kaohsiung County, Taiwan, April 23, 2010.
35. "Systems Biology for Cancer Research", Institute of Physics, Academia Sinica, Taipei, Taiwan, April 13, 2010.
36. "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.
37. "Systems Biology for Cancer Therapy", Department of Biotechnology, Ming Chuang University, Taoyuan County, Taiwan, March 12, 2010.
38. "ATP Aynthase, a New Target for Cancer Therapy", 7th International Symposium for Chinese Medicinal Chemists (ISCMC-2010), Kaohsiung Medical University, Kaohsiung, Taiwan, Feb. 1 - 5, 2010.
39. "Systems Biology in Breast Cancer Therapy", The Breast Cancer Society of TAIWAN, Taipei, Taiwan, Jan 16, 2010.
40. "Targeting Cancer Therapy by Blocking Key Energy Protein", Graduate Institute of Molecular Systems Biomedicine, China Medical University, Taichun, Taiwan, Dec. 11, 2009.
41. "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.
42. "Discovery of a Novel Target for Cancer Therapy", Institute of Biomedical Sciences, National Sun Yat-sen University, Kaohsiung, Taiwan, Dec. 07, 2009.
43. "Network Analysis Reveals the Roles of microRNAs in Cancers", Institute of Biomedical Engineering, National Taiwan University, Taipei, Taiwan, Nov. 17, 2009.
44. "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.
45. "Network Analysis Reveals the Role of miR-148a in Gastric Cancer", National Health Research Institute, Zhunan, Miaoli, Taiwan, Oct. 08, 2009.
46. "Regulatory networks of a novel miRNA in human breast cancer cells", Computational Biology Seminar Pilot Research Project (計算生物學先導型研究計畫研討會), Academia Sinica, Taipei, Taiwan, Sep. 14, 2009.
47. "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.
48. "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.
49. "ATP synthase, a new target for cancer therapy", Westlake International Conference on Personalized Medicine, Hangzhou, China, May 29 - May 31, 2009.
50. "MicroRNA & Cancer", National Taiwan Normal University, Taipei, Taiwan, May 7, 2009.
51. "Computational requirements in systems biology", IBM Blue Gene Worskhop, IBM T.J. Watson Research Center, Yorktown Heights, NY, USA, April 30 - May 1, 2009.
52. "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.
53. "Discovery of a Novel Therapeutic Target", 2009 Taiwan Seminar on Bioinformatics and Systems Biology (台灣生物資訊與系統生物學研討會), His-Chu, Taiwan, March 5, 2009.

54. "Targeting Cancer Therapy by Blocking Key Energy Protein", Institute of Systems Biology and Bioinformatics, National Central University, Chungli, Taiwan, Dec. 18, 2008.
55. "Targeting Cancer Therapy by Blocking Key Energy Protein", 2008 Taiwan – Japan Proteomics Symposium, Taipei, Taiwan, Dec. 03 - 05, 2008.
56. "Anti-tumor Activity of Reishi Polysaccharides: from Gene Expression to Network", The 7<sup>th</sup> International Conference of Bioinformatics (InCoB), Taipei, Taiwan, Oct. 20-23, 2008.
57. "Systems Biology for Drug Discovery", Institute of Biomedical Engineering and Environmental Sciences, National Tsing-Hua University, Hsin-Chu, Taiwan, Oct. 1, 2008.
58. "Applications of Systems Biology to Bioenergy and Drug Discovery", ABRC, Academia Sinica, Sep. 8, 2008.
59. "Targeting Cancer Therapy by Blocking Key Energy Protein", Institute for Advanced Biosciences, Keio University, Tsuruoka, Yamagata, Japan, June 23, 2008.
60. "How Proteomics Can Help Drug Discovery?", National Taiwan University Medical School, Taipei, June 3, 2008.
61. "Applying Synthetic Systems Biology to Develop Butanol-Tolerant Microbes", Biofuel Workshop 2008, Academia Sinica, May 30, 2008.
62. "Systems Biology in Drug Discovery", Department of Life Science, National Taiwan University, March 4, 2008.
63. "Gene Ontology", The Second Virtual Training Workshop on Bioinformatics, June-August, 2007.
64. "Functional Classification and Clustering", National Taiwan University Medical Library, Taipei, July 19, 2007.
65. " Needle in the haystack - Biological Database Search (大海撈針 — 生物學資料庫搜尋)", Department of Life Science, National Normal University, Taipei, Jul 4 & 11, 2007.
66. "New Therapeutic Targets in Gastric Cancer", Symposium on Proteomics, Genomics and Molecular Diagnostics, Taipei, June 27, 2007.
67. "Prediction and Validation of Differential Expressed microRNAs in Cancer Cells", Applied Biosystems Taiwan, Taipei, June 5, 2007.
68. "A drop of blood, to predict your life - gene chips and bioinformatics Outlook (一滴血，預測你的壽命-基因晶片與生物資訊的展望)", Rotary Club of Taipei Nanxin (台北南欣扶輪社), Taipei, June 1, 2007.
69. "Cancer Systems Biology", Chung Hsing University, Taichung, May 10, 2007.
70. "Molecular Regulation from Gene Expression to Network", Taiwan International Graduate Program, Academia Sinica, Taipei, May 3, 2007.
71. "Gene Network Construction in Systems Biology", Department of Entomology, National Taiwan University, Taipei, April 17, 2007.
72. "Cancer Systems Biology: Biological Pathway in Leukemia Cell Differentiation", Second Workshop on System Biology and Bioinformatics, National Central University, Taoyuan County, April 14, 2007.
73. "Regulation of Reishi Polysaccharide on Leukemia from Gene Expression to Network Construction", Kyushu Institute of Technology, Fukuoka, Japan, Jan 31, 2007.
74. "Molecular Regulation from Gene Expression to Network", NTU Hospital, Taipei, April 3, 2007.
75. "Cancer Systems Biology: from Gene Expression to Biological Networks", 2007 Biophysics & Soft-matter Days, Kenting, Jan. 27, 2007.
76. "Regulatory Network of a Novel Compound on Cancer Cells", 2007 Protein-protein Interaction and Network Biology Workshop, Taipei, Jan. 22, 2007.

77. "Elucidating the Molecular Regulation from Gene Expression to Network Construction", Institute of Systems Biology and Bioinformatics, National Central University, Chungli, Dec. 28, 2006.
78. "Systems-biology Study of a Novel Drug in Cancer Cells", Annual Meeting of Chemical Engineering (化工年會), Kaohsiung, Nov. 25, 2006.
79. "Elucidating the Molecular Regulation of *Ganoderma lucidum* Polysaccharides in Human Monocytic Cells: from Gene Expression to Network Construction", 2<sup>nd</sup> Taiwan-Japan Bilateral Bioinformatics Symposium, Tainan, Nov. 7, 2006.
80. "Elucidating the Molecular Regulation of *Ganoderma lucidum* Polysaccharides in Human Monocytic Cells: from Gene Expression to Network Construction (探討靈芝多醣體於人類單核球細胞之分子機制:從基因表現到網路建構)", TCM Personnel Training Seminar (中醫藥人材培訓研討會), Taipei, Oct. 20, 2006.
81. "Systems-biology Study of a Novel Drug on Cancer Cells", Nara Institute of Science and Technology, Nara, Japan, Aug. 25, 2006.
82. "Application of Bioinformatics in Proteomics Data Analysis (應用生物資訊於蛋白質體資料分析)", 2006 Taiwan Society for Mass Spectrometry (臺灣質譜年會), Kaohsiung, June 23, 2006.
83. "Gene Ontology", The First Virtual Training Workshop on Bioinformatics, May-July, 2006.
84. "Biological Pathway and Gene Network Construction on Cancer Systems Biology", The 11th Symposium on Recent Advances in Biophysics, Taipei, May 26, 2006.
85. "Systems Biology Study of Leukemia Cells Differentiation to Macrophages", Chung Shan Medical University, Taichung, March 31, 2006.
86. "Systems-biology Study of a Novel Drug in Cancer Cells", The First Japan-Taiwan Bilateral Symposium on Bioinformatics, Japan, March 14, 2006.
87. "Systems-biology Study of a Novel Drug in Cancer Cells", Department of Chemical Engineering, National Taiwan University, Taipei, March 1, 2006.
88. "Systems-biology Study on RGD-induced Apoptosis of MCF-7 Breast Cancer Cells", National Taiwan University, Taipei, Dec. 24, 2005.
89. "Essential Bioinformatics in the Analysis of DNA Microarray Datasets", National Taiwan University College of Medicine, Taipei, Sep. 28, 2005.
90. "Gene Annotation and Network in Cancer Research", The 5th Annual Emerging Information Technology Conference, Taipei, Aug. 15-16, 2005.
91. "A drop of blood, to predict your life - gene chips and bioinformatics Outlook (一滴血，預測你的壽命-基因晶片與生物資訊的展望)", Department of Life Science, National Normal University, Taipei, Jul 15 & Jul 22, 2005.
92. "Learning and Teaching Systems Biology (系統生物學的學與教)", Department of Bio-Industrial Mechatronics Engineering, National Taiwan University, Taipei, Jun 2, 2005.
93. "Bioinformatics Applications in Biological Medicine (生物資訊於生物醫學上的應用)", Tamkang University, May 20, 2005.
94. "Biomic Study of Human Myeloid Leukemia Cell Differentiated to Macrophage", Department of Life Science, National Taiwan University, Taipei, March 1, 2005.
95. "Discovery of Tumor-associated Biomarkers", Institute of Zoology, National Taiwan University, Taipei, Dec. 03, 2004.
96. "Discovery of Tumor-associated Biomarkers", Institute of Bioinformatics, Yang-Ming University, Taipei, Oct. 06, 2004.

97. "Gene Network Construction", National Taiwan University College of Medicine, Taipei, Sep. 25, 2004.
98. "Identification of Tumor-associated Plasma Biomarkers Using Proteomics Techniques: from Mouse to Human (癌症相關生物標記分子: 從裸鼠到人類)", Biomarker Discovery and Molecular Diagnosis -- Cancers, Infectious Diseases, and Multi-Factorial Genetic Diseases, National Taiwan Normal University, Taipei, April 30, 2004.
99. "Identification of Tumor-associated Plasma Biomarkers Using Proteomics Techniques: from Mouse to Human", Proteomics Workshop (蛋白質體學研討會), National Central University, Taoyuan, March 5, 2004.
100. "Application of Proteomics in Biotechnology", The Latest Applications of Biotechnology and Bioinformatics Symposium (最新生物科技及生物資訊應用研討會), Taipei, Taiwan, Dec. 27, 2004.
101. "Systems-Biology Study of RGD Mimetic Peptide in Breast Cancer", School of Pharmacy, National Taiwan University, Taipei, Oct. 30, 2003.
102. "Systems Biology" in Drug Discovery-genomics, Drug Development Technology Platforms Designed Training Courses – Genomics (新藥開發技術平台研修專班-基因體學), National Tsing-Hua University, Hsinchu, Aug. 29, 2003.
103. "Gene and Protein Database" in Summer Institute on Bioinformatics (國立台灣大學暑期共同核心課程), National Taiwan University, Taipei, Aug. 12 and 13, 2003.
104. "The Systems Biology Study: Effect of RGD-peptides in Breast Cancer", Seminar Biochips (生物晶片研討會), Taipei, Aug. 9, 2003.
105. "Bioinformatics Data Analysis in Proteomics" in Summer Institute on Bioinformatics (國立台灣大學暑期共同核心課程), National Taiwan University, Taipei, Aug. 7, 2003.
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