

## **Brief Biography: Hsueh-Fen Juan**

**Hsueh-Fen Juan** 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 at the Japan International Research Center for Agricultural Sciences (Tsukuba, Japan) during 2000-2001 and a postdoctoral research fellow at Institute of Biological Chemistry, Academia Sinica (Taipei, Taiwan) during 2001-2002.

She started her academic career as an assistant professor at Department of Chemical Engineering, National Taipei University of Technology and as an adjunct assistant professor at Department of Computer Science and Information Engineering at NTU in 2002. She moved to NTU in 2004 as an assistant professor at Department of Life Science and Institute of Molecular and Cellular Biology. She was promoted to associate professor in 2006, full professor in 2009 and became distinguished professor in 2020 at Department of Life Science, Institute of Molecular and Cellular Biology and Graduate Institute of Biomedical Electronics and Bioinformatics, NTU. She is now the Deputy Vice President for Research & Development, and Director at Center for Computational and Systems Biology, 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. Dr. Juan joined the national teams for repurposed drugs against SARS in 2003 and SARS-CoV-2 in 2020 using bioinformatics and big data analysis.

Dr. Juan has developed a number of novel methods to advance systems-biology research and applied such an approach for drug discovery and elucidating molecular mechanisms of drug responses in cancer cells. She has published more than 150 journal papers including prestigious journals such as *Proc. Natl. Acad. Sci. U S A*, *WIREs Computational Molecular Science*, *Bioinformatics*, *Briefings in Bioinformatics*, *Clinical Cancer Research*, *Cancer Research*, *Nucleic Acids Research* and *Advanced Science*. Among these publications, Dr. 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 selected as ESI highly cited papers in 2013. She edited two scientific books entitled *Systems Biology: Applications in cancer-related research* (2012) and *A Practical Guide to Cancer Systems Biology* (2018). She is the editor of *Scientific Reports* (Nature Research), *PeerJ* and *IUBMB Life*. She also serves as the reviewer more than 60 various journals including *Nature Communications* and *Gut*.

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). She is currently the President of Taiwan Proteomics Society and Vice President of The Emerging Information and Technology Association (EITA), U.S.A. She served as Council Member of five societies, Asia Oceania Human Proteome Organization (AOHUPO), Taiwan Society of Evolution and Computational Biology, Taiwan Society for Biochemistry and Molecular Biology, Chinese Society of Cell and Molecular Biology (CSCMB), and Taiwan Bioinformatics and Systems Biology Society. Since Dr. Juan made significant contributions through systems biology approach to development of methodology and cancer therapy, she received several 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 (2015-2020), 2015 USA Emerging Information and Technology Association (EITA) Service Award, and Ministry of Science and Technology (MOST) Outstanding Research Award (2020). Additionally, she has been invited to give more than 200 talks worldwide and led her team members to obtain more than 130 research awards.

# CURRICULUM VITAE

(March 2024)

## **PERSONAL DATA**

Name: Hsueh-Fen Juan (阮雪芬)

Title: Distinguished 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**

- 2023/01 – now Deputy Vice President for Research and Development, NTU, Taiwan.
- 2021/08 – now Director, Center for Computational and Systems Biology, NTU, Taiwan.
- 2021/10 – now Adjunct Appointment Investigator, Institute of Molecular and Genomic Medicine, National Health Research Institutes (NHRI), Taiwan.
- 2020/7 – now Distinguished 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.
- 2020/4 – now Key Director, Taiwan AI Labs
- 2009/8 – 2020/7 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**

- 2021 Advisor for College Student Research Creativity Award from Ministry of Science and Technology (MOST) (科技部大專學生研究計畫研究創作獎之指導教授獎)
- 2020 Fulbright Campus Advisor at National Taiwan University
- 2020 Outstanding Research Award from Ministry of Science and Technology (MOST) (科技部傑出研究獎)
- 2020 Who's Who in the Hakka World (中央通訊社)
- 2019 Advisor for College Student Research Creativity Award from Ministry of Science and Technology (MOST) (科技部大專學生研究計畫研究創作獎之指導教授獎)
- 2019-2020 1<sup>st</sup> Prize in College of Life Science, NTU
- 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 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**

### Positions or services performed in international, eminent academic organizations or associations

2023-2025 Council Member, 17<sup>th</sup> Chinese Society of Cell and Molecular Biology (CSCMB)

2022-2024 Council Member, Asia Oceania Human Proteome Organization (AOHUPO)

2023 Review Panelist, Department of Engineering, National Science and Technology Council

2023 Review Panelist, Department of Life Science, National Science and Technology Council

2022 Review Panelist, Department of Life Science, Ministry of Science and Technology

2021- present Vice President, The Emerging Information and Technology Association (EITA), U.S.A.

2021-present President, 7<sup>th</sup> Taiwan Proteomics Society

2021 Supervisor, 2021 MOST Global Talent Internship Program

2021 Local Organization Co-chairs, The 19th Asia Pacific Bioinformatics Conference (APBC2021), Taipei, Taiwan

2021-2024 Council member, 27<sup>th</sup> The Taiwan Society for Biochemistry and Molecular Biology

2023 Review Panelist, Department of Life Science, National Science and Technology Council

2022 Review Panelist, Department of Life Science, Ministry of Science and Technology

2020-present Executive council member, 5<sup>h</sup> Taiwan Society of Evolution and Computational Biology

2020 Advisory committee, High School Science Education

2020 Evaluation Committee Convener, Institute of Genomics and Bioinformatics, National Chung Hsing University

2020 Evaluation Committee, Graduate Institute of Biochemistry, National Chung Hsing University

2019-present Vice Chair, Leadership Team in The Emerging Information and Technology Association (EITA), U.S.A.

2019-present Vice Chair, The EITA-EITC managing committee, The Emerging Information and Technology Association (EITA), U.S.A.

2019-present, Committee, Office and Research Development, National Taiwan University

2019-2024 Exchange Professor in Doctoral Program for World-leading Innovative & Smart Education, Kyoto University, Japan

2019 Review Panelist, Department of Life Science, Ministry of Science and Technology

2018-2021 Council member, 26<sup>th</sup> The Taiwan Society for Biochemistry and Molecular Biology

2017-2021 Vice Chairman, Taiwan Bioinformatics and Systems Biology Society

2018-2020 Executive council member, 1<sup>st</sup> Taiwan Society for Extracellular Vesicles

2017-2020 Executive council member, 6<sup>th</sup> Taiwan Proteomics Society

2016-2020 Executive council member, 3<sup>rd</sup> and 4<sup>th</sup> Taiwan Society of Evolution and Computational Biology

2015-2018 Medicine and Health Advisor of Taipei City Government

2015-2017, 2019-2021 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, 25<sup>th</sup> 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, 5<sup>th</sup> 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, 24<sup>th</sup> The Taiwan Society for Biochemistry and Molecular Biology  
 2012, Evaluation Committee of the Ministry of Education (MOE) Science Classes  
 2011-2014 Council member, 4<sup>th</sup> Taiwan Proteomics Society  
 2010-2014 2016-2017, 2019-2020 Advisory committee, Taiwan Olympiad  
 2009-2012 Council member, 23<sup>th</sup> 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, 3<sup>rd</sup> Taiwan Proteomics Society  
 2007-2009 Council member, Taiwan Bioinformatics and System Biology Society  
 2007-2010 Committee, Bio-Physics: Softmatter, Biophysics and System Biology, National Center for Theoretical Sciences  
 2006-2014 Committee Member, Asian Bioinformatics Research and Education Network (ABREN)

#### Other Professional Activities

1. Organizing Committee, 2024 The Society for Molecular Biology and Evolution Regional Meeting in Taiwan
2. External Reviewer, 2023 The Young Collaborative Research Grant (YCRG) of the Research Grants Council (RGC) of Hong Kong
3. Reviewer, 2023 Yushan Fellow Program, Ministry of Education, Taiwan
4. Reviewer, 2022 Yushan Fellow Program, Ministry of Education, Taiwan
5. External Reviewer for the RGC Research Fellow Scheme (RFS) and RGC Senior Research Fellow Scheme (SRFS) 2022/23, Hong Kong
6. Chair, 2nd AOHUPO Online Education Series "The Renaissance of Clinical Proteomics: Biomarkers, Imaging, and Therapeutics", March 18, 2022.
7. Program Committee Chair, International Symposium on Evolutionary Genomics and Bioinformatics 2022, March 12-13, 2022, National Yang Ming Chiao Tung University, Taipei, Taiwan.
8. Local Organizer, The 19th Asia Pacific Bioinformatics Conference (APBC2021) February 3rd-5th, 2021, National Cheng Kung University, Tainan, Taiwan.
9. Reviewer, The 19th Asia Pacific Bioinformatics Conference (APBC2021) February 3rd-5th, 2021, National Cheng Kung University, Tainan, Taiwan.
10. 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.
11. Reviewer, 2018 Yushan Fellow Program, Ministry of Education, Taiwan
12. 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.
13. Conference Organizer, 2018 EITA Healthcare Innovation and Entrepreneurship Workshop (EITA-Healthcare Ventures 2018), Taipei Economic and Cultural Office in New York, New York

York, U.S.A.

14. Conference Organizer, EITA-New Materials 2017, University of Michigan, Ann Arbor, MI, U.S.A., July 1, 2017.
15. Chair and Organizing Committee, 2015 Asia-Pacific Symposium of Neuroblastoma, Taipei, Taiwan, November 14, 2015.
16. Chair and Organizing Committee, 2015 TPS Annual Meeting, Taoyuan, Taiwan, November 13-14, 2015.
17. General Chair, The 3rd The Emerging Information and Technology Association (EITA)-Bio Conference (the EITA-Bio 2015), Taipei, Taiwan, October 24-25, 2015.
18. Poster Award Committee, The 15th SCBA International Symposium, Taipei, Taiwan, June 26-29, 2015.
19. General Chair, 2014 TPS Translational and Systems Biology Symposium, Taipei, Taiwan, November 11-12, 2014.
20. 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.
21. Chair in parallel session A4 basic research (high throughput techniques), Advances in neuroblastoma research (ANR), Cologne, Germany, May 13-16, 2014.
22. Reviewer, Advances in neuroblastoma research (ANR), Cologne, Germany, May 13-16, 2014.
23. The Technical Program Committee, 2012 International Conference on Biomedical Engineering and Biotechnology (iCBEB), Wuhan, China, October 11-13, 2013.
24. Program Committee, ISCB-Asia/SCCG 2012, Shenzhen, China, December 20-21, 2012.
25. Local Organizing Chair, The 6th IECA Conference 2012 Synthetic Biology with Applications to Biotechnology, Taipei, Taiwan, December 10-12, 2012.
26. Co-Chair, The 12th Emerging Information and Technology Conference (EITC), Toronto, Ontario, Canada, August 16-17, 2012.
27. The Technical Program Committee, 2012 International Conference on Biomedical Engineering and Biotechnology (iCBEB), Macau, May 28-30, 2012.
28. Organization Committee, Mini-Symposium on Microbial Systems Biology, Taipei, Taiwan, May 1, 2012.
29. Committee Member, IAENG International Conference on Bioinformatics (ICB'12), Hong Kong, March 14-16, 2012
30. Taiwan Mirror Organizing Chair, The 5<sup>th</sup> Virtual Training Workshop on Bioinformatics, December 2010-January, 2011.
31. Organization Committee, 2011 Systems Biology and Bioinformatics Symposium (SBBS), Hsinchu, Taiwan, Nov. 9-10, 2011.
32. Program Committee, 2nd Workshop on Biological Processes and Petri Nets (BioPPN 2011), Newcastle upon Tyne, United Kingdom, June 20-24, 2011.
33. Committee Member, IAENG International Conference on Bioinformatics (ICB'11), Hong Kong, March 16-18, 2011
34. Program Committee, 2011 Translational Medicine Conference and Taiwan Proteomics Society Annual Symposium, Taipei, Taiwan, April 27-28, 2011.
35. Taiwan Mirror Organizing Chair, The 4<sup>th</sup> Virtual Training Workshop on Bioinformatics, Sep-Nov, 2010.
36. Organization Committee, The 2010 Systems Biology and Bioinformatics Symposium (SBBS), Hsinchu, Taiwan, Nov 04-05, 2010.
37. Committee Member, IAENG International Conference on Bioinformatics (ICB'10), Hong Kong, March 17-19, 2010
38. Program Committee, 10th Workshop on Molecular Biology and Biotechnology organized for Association of East Asian Research Universities (AEARU), Nov. 11-13, 2009.

39. Taiwan Mirror Organizing Chair, The 3<sup>rd</sup> Virtual Training Workshop on Bioinformatics, April-June, 2009.
40. Program Committee Member, The IAENG International Conference on Bioinformatics (ICB'09), Hong Kong, March 18-20, 2009.
41. Program Committee Member, 2008 Workshop of Medical and Bio-Informatics, Taipei County, Taiwan, November 13-15, 2008.
42. Program Committee Member, The IAENG International Conference on Bioinformatics (ICB'08), Hong Kong, March 19-21, 2008.
43. Program Organizer, Plant Proteomics, Taichung, Taiwan, May 17-18, 2008.
44. Workshop Chair, The Second Virtual Training Workshop on Bioinformatics, June-August, 2007.
45. Meeting Chair and Organizer, 2007 Systems Biology and Bioinformatics Symposium, Taipei, Taiwan, March 27-29, 2007.
46. Program Committee Member, The IAENG International Conference on Bioinformatics (ICB'07), Hong Kong, March 21-23, 2007.
47. Local Organizing Committee, 7th Frontier Science Symposium, Taipei, Taiwan, November 23-26, 2006
48. Chairman, session on "Bioinformatics", The sixth annual Emerging Information Technology Conference (EITC-06), Dallas, USA, August 10-12, 2006.
49. Co-founder of Center for Systems Biology and Bioinformatics, NTU, Taipei, Taiwan, June 2006.
50. Taiwan Mirror Organizing Chair, The First Virtual Training Workshop on Bioinformatics, May-July, 2006.
51. Session Chairman, The Fourth Asia Pacific Bioinformatics Conference, Taipei, Taiwan, February 13-16, 2006.
52. Organization Committee Co-Chair, The Fourth Asia Pacific Bioinformatics Conference, Taipei, Taiwan, February 13-16, 2006.
53. Chair and Organizer, Workshop on Protein Mass Analysis, Taipei, Taiwan, February 21-23, 2005.
54. Chair and Organizer, Systems Biology and Bioinformatics Symposium, Taipei, Taiwan, March 29-31, 2005.
55. Chair and Organizer, High Content Proteomics Workshop, Taipei, Taiwan, Sep. 13, 2005.
56. Co-chair and Organizer, Rare Diseases, Trinucleotide Repeat Expansion Disorders, and Biotechnology Symposium and Workshop, Taipei, Taiwan, March 25-27, 2004.
57. Co-chair and Organizer, Systems biology Symposium and Workshop, Taipei, Taiwan, April 15-17, 2003.
58. Co-chair and Organizer, Proteomics and Liver Disease Symposium, Taipei, Taiwan, April 18, 2002.

#### Editorial Services to Scholarly Publications

2020-Present, Editorial Board, IUBMB Life

2015-2023, Editorial Board, Scientific Reports (Nature Research)

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

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

2014-2020, Review Editorial Board, Stem Cell Treatments (Publisher Frontiers, joining Nature Publishing Group)

2014-2020, Editorial Board, Journal of Metabolomics & Systems Biology (Avens Publishing Group)

2014-2020, 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. Analytical Chemistry (2021)
2. African Journal of Agricultural Research (2011)
3. Archives of Biochemistry and Biophysics (2013, 2014)
4. Bioinformatics (2013, 2014, 2018, 2019)
5. Bioorganic & Medicinal Chemistry (2010)
6. BMC Bioinformatics (2008, 2009, 2010, 2011, 2012, 2013, 2014)
7. BMC Cancer (2017)
8. BMC Complementary and Alternative Medicine (2011)
9. BMC Gastroenterology (2012)
10. BMC Genomics (2014)
11. BMC Systems Biology (2012, 2013)
12. Briefings in Bioinformatics (2019, 2021)
13. Cell Proliferation (2014)
14. Chemical Research in Toxicology (2012)
15. Chinese Medicine (2013)
16. Clinical and Developmental Immunology (2011)
17. Communications Biology (2019, 2020)
18. Disease Markers (2010)
19. Drug Discovery Today (2008)
20. Database (2020)
21. Environmental and Experimental Botany (2011)
22. Environmental Toxicology and Pharmacology (2013)
23. Evidence-Based Complementary and Alternative Medicine (2012)
24. Experimental Cell Research (2014)
25. Expert Opinion On Drug Discovery (2012)
26. FEBS Letters (2013)
27. Food Chemistry (2015)
28. Food and Function (2015)
29. Frontiers in Physiology (2018)
30. Gynecologic Oncology (2009)
31. Gut (2020)
32. IEEE Transactions on Knowledge and Data Engineering (2017)
33. International Journal of Integrative Biology (2009)
34. International Journal of Medical Sciences (2012)
35. International Journal of Molecular Sciences (2013, 2020)
36. iScience (2020)



37. IUBMB Life (2021)
38. IEEE Journal of Biomedical and Health Informatics (2021)
39. Journal of Biomedical Science (2013, 2014, 2016, 2017, 2018, 2019, 2020, 2021)
40. Journal of Cancer Research and Clinical Oncology (2013, 2017)
41. Journal of Hematology & Oncology Editorial (2014)
42. Journal of Metabolomics & Systems Biology (2014)
43. Journal of Proteomics (2011, 2012)
44. Journal of Proteome Research (2011, 2012, 2017, 2021)
45. Mathematical Biosciences and Engineering (2015)
46. Medicinal Chemistry (2013)
47. Methods (2016)
48. Molecular Biosystems (2012)
49. Molecular and Cellular Proteomics (2006)
50. Molecular Therapy (2018)
51. Molecular Therapy - Nucleic Acids (2021)
52. New Journal of Chemistry (2020)
53. Nature Communications (2020, 2021)
54. Nucleic Acids Research (2021)
55. OMICS: A Journal of Integrative Biology (2012)
56. Pathology - Research and Practice (2014)
57. PLoS ONE (2011, 2012, 2013, 2014, 2017)
58. PLoS Computational Biology (2012)
59. Protein Engineering, Design, and Selection (2012)
60. Proteomics (2008, 2020)
61. RNA (2016)
62. Scientific Reports (2015, 2016)
63. Theranostics (2019)
64. Translational Oncology (2011)
65. Tumor Biology (2014)

#### Books:

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

#### Proposals:

1. 2023, Research Grant Council (RGC) of Hong Kong, China
2. 2022, Research Grant Council (RGC) of Hong Kong, China
3. 2021, Research Grant Council (RGC) of Hong Kong, China
4. 2020, "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.
5. 2020, Sultan Qaboos University, Sultanate of Oman
6. 2020, Research Grant Council (RGC) of Hong Kong, China
7. 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.
8. 2019, Research Grant Council (RGC) of Hong Kong, China
9. 2018, Research Grant Council (RGC) of Hong Kong, China

10. 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
11. 2017, Research Grant Council (RGC) of Hong Kong, China
12. 2016, Collaborative Research Fund (CRF) of Research Grant Council (RGC) of Hong Kong, China
13. 2015, The Biology & Medicine Panel of Research Grant Council (RGC) of Hong Kong, China
14. 2015, The Engineering Panel of Research Grant Council (RGC) of Hong Kong, China
15. 2015, King Fahd University of Petroleum and Minerals, Dhahran – Saudi Arabia
16. 2014, King Fahd University of Petroleum and Minerals, Dhahran – Saudi Arabia
17. 2014, The Research Council of Oman, Sultanate of Oman
18. 2014, The Engineering Panel of Research Grant Council (RGC) of Hong Kong, China
19. 2013, The Biology & Medicine Panel of Research Grant Council (RGC) of Hong Kong, China
20. 2013, Far Eastern Memorial Hospital, Taipei, Taiwan
21. 2013, National Central University, Taiwan
22. 2013, National Center for High-performance Computing, Hsin-Chu, Taiwan
23. 2012-2013, Yen Tjing Ling Medical Foundation, Taipei, Taiwan
24. 2012, South African Medical Research Council, South Africa
25. 2012, Projects of National Cheng Kung University, Taiwan
26. 2012, Collocation Projects between Chang Gung Hospital and National Tsing Hua University, Taiwan
27. 2010, The Israel Science Foundation's FIRST (Focal Initiatives in Research in Science and Technology) program, Israel
28. 2010, Projects of National Tsing Hua University, Taiwan
29. 2009, Thematic Project, Academia Sinica, Taiwan
30. 2008, Reexamination Committee, National Science Council, Taiwan
31. 2003-present, Ministry of Science and Technology (MOST)/National Science Council (NSC), Taiwan

## **RESEARCH SUPPORT**

1. Exploring the interplay between ATP synthase and microbiome in tumor microenvironment: a proteomics approach, 2023/8/1-2024/7/31, NSTC (PI)
2. Deciphering anti-neuroblastoma drug response using single-cell and spatial transcriptomics, 2022/1/1-2022/12/31, NTUT (PI)
3. To overcome resistance to immune checkpoint inhibitors by integrating clinical, translational and computational approaches, NTU Core Consortiums, 2021/7/1-2024/6/31, NTU (PI)
4. Development and commercialisation of repurposed drugs with inhaled medications against COVID-19, 2022/1/1-2022/12/31, Emerging Infectious and Major Disease Research Program and Taiwan Biotech Innovation Academy, Academia Sinica (Co-PI)
5. Multi-omics and big data analysis for COVID-19 drug discovery, 2021/1/1-2021/12/31, Emerging Infectious and Major Disease Research Program and Taiwan Biotech Innovation Academy, Academia Sinica (Co-PI)
6. Targeting mitochondrial dynamics for neuroblastoma therapy, 2021/1/1-2021/12/31, NTUT (PI)
7. Deciphering the interplay among ectopic ATP synthase, mitochondrial dynamics and intercellular mitochondrial transfer: a multi-omics approach, 2020/8/1-2023/7/31, MOST (PI)
8. A framework for personalized combination therapy using cancer multi-omics big data, 2020/8/1-2023/7/31, MOST (PI)
9. Decoding gene networks at the single-cell level, 2020/8/1-2023/7/31, MOST (Co-PI)
10. Functions of exosomal long non-coding RNAs in high-risk neuroblastoma, 2020/1/1-2020/12/31, NTUT (PI)
11. 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)
12. Expression-based combinatorial therapeutic discovery in high-risk neuroblastoma, 2018/1/1-2020/12/31, NHRI (PI)
  13. 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)
  14. Role of ectopic ATP synthase in cell-cell communications mediated by extracellular vesicles, 2017/8/1-2020/7/31, MOST (PI)
  15. Elucidating the interplay of phosphorylation and acetylation dynamics in ectopic ATP synthase trafficking by proteomics approaches, 2016/8/1-2019/7/31, MOST (PI)
  16. Integrative platform for big biomedical sequence data and disease association, 2016/7/1-2017/8/31, MOST (PI)
  17. 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)
  18. Drug repositioning for neuroblastoma therapy: investigation of the mechanism of action, 2016/1/1-2016/12/31, NTUH (PI)
  19. MicroRNA-mediated regulatory network driven by MYCN in neuroblastoma, 2015/1/1-2015/12/31, NTUH (PI)
  20. 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)
  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/MOST (PI).
  22. 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).
  23. Development of 1~10  $\mu\text{m}$  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)
  24. 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)
  25. Evolution and functions of microRNAs that regulate ATP synthase subunit genes, 2010/8/1-2013/7/31, NSC (PI)
  26. Elucidating the role of miR-148a in tumor suppression, 2010/8/1-2011/7/31, NTU (PI)
  27. Elucidating the molecular mechanism of ATP synthase inhibitors on apoptosis of breast cancer cells, 2009/8-2010/7, NTU (PI)
  28. 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)
  29. Gene network of host cell by Helicobacter: annexin A4 involved signaling and regulation in gastric Cancer, 2008/8-2011/7, NSC (PI)
  30. Pilot Research Program of Computational Biology, 2008/4/1-2009/3/31, NSC (Co-PI)
  31. 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)
  32. Systems and Computational Biology of *Rhodospseudomonas palustris* Aimed for Bioenergy Application, 2007/8-2010/7, NSC (PI)
  33. Molecular Mechanism of Annexin A4 in Carcinogenesis of Gastric Cancer, 2007/8-2008/7,

NSC (PI)

34. Systems-biology study of a novel compound on cancer cells, 2006/9-2008/8, NTU (PI)
35. *In Silico* Study of RNA-binding Proteins, 2006/8-2007/7, NSC (Co-PI)
36. Development of an information retrieval and text mining system to study the relationships among genes, methylation and diseases, 2006/8-2007/7, NSC (PI)
37. The Immuno-functions of Carbohydrates, Thematic project, Academia Sinica, 2004/1/1-2007/12/31 (Co-PI)
38. Development of gene network modeling methods to study the differentiation of HL-60 cancer cells to macrophages, 2004/11-2005/7, NSC (Co-PI)
39. 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)
40. 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)
41. Systems Biology Study of RGD-containing Proteins, 2002/11-2003/7, NSC (PI)

## PUBLICATIONS

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

1. Wang, W.-H., Kao, Y.-C., Hsieh, C.-H., Tsai, S.-Y., Y. Cheung, C. H., Huang, H.-C.\* , **Juan, H.-F.\*** (2024) "Multiomics reveals induction of neuroblastoma SK-N-BE(2)C cell death by Mitochondrial Division Inhibitor 1 (Mdivi-1) through multiple effects" *Journal of Proteome Research* 23(1):301-315.
2. Hsieh, C.-H., Huang, C.-T., Cheng, Y.-S., Hsu, C.-H., Hsu, W.-M., Chung, Y.-H., Liu, Y.-L., Yang, T.-S., Chien, C.-Y., Lee, Y.-S., Huang, H.-C.\* , **Juan, H.-F.\*** (2023) "Homoharringtonine as a PHGDH Inhibitor: unraveling metabolic dependencies and developing a potent therapeutic strategy for high-risk neuroblastoma" *Biomedicine & Pharmacotherapy* 166:115429.
3. Kao, Y.-C., Chang, Y.-W., Lai, C. P., Chang, N.-W., Huang, C.-H., Huang, H.-C.\* , **Juan, H.-F.\*** (2023) "Ectopic ATP synthase stimulates the secretion of extracellular vesicles in cancer cells" *Communications Biology* 6:642
4. **Juan, H.-F.\*** and Huang, H.-C.\* (2023) "Quantitative analysis of high-throughput biological data" *WIREs Computational Molecular Science* 13(4): e1658.
5. Chang, Y.-W., Yang, T.-T., Chen, M.-C., Liaw, Y.-G., Yin, C.-F., Huang, T.-Y., Hou, J.-T., Hung, Y.-H., Hsu C.-L., Huang, H.-C.\* , **Juan, H.-F.\*** (2023) "Spatial and temporal dynamics of ATP synthase from mitochondria toward the cell surface" *Communications Biology* 6:42.
6. Tu, Y.-H., **Juan, H.-F.\*** and Huang, H.-C.\* (2023) "Context-dependent gene regulatory network reveals regulation dynamics and cell trajectories using unspliced transcripts" *Briefings in Bioinformatics* 24(2):bbac633.
7. Hsieh, C.-Y., Wen, J.-H., Lin, S.-M., Tseng, T.-Y., Huang, J.-H., Huang, H.-C.\* , **Juan, H.-F.\*** (2023) "scDrug: From single-cell RNA-seq to drug response prediction" *Computational and Structural Biotechnology Journal* 2:150-157.
8. Chen, K.-P., Hsu, C.-L., Oyang, Y.-J., Huang, H.-C.\* , **Juan, H.-F.\*** (2023) "BIC: a database for the transcriptional landscape of bacteria in cancer" *Nucleic Acids Research* 51(D1):D1205-D1211.
9. Wu, S.-Y., Wu, H.-T., Wang, Y.-C., Chang, C.-J., Shan, Y.-S., Wu, S.-R., Chiu, Y.-C., Hsu, C.-L., **Juan, H.-F.**, Lan, K.-Y., Chu, C.-W., Lee, Y.-R., Lan, S.-H., Liu, H.-S. (2023) "Secretory autophagy promotes RAB37-mediated insulin secretion under glucose stimulation both *in vitro* and *in vivo*" *Autophagy* 19(4):1239-1257.
10. Hsu, C.-L.<sup>#</sup>, Yin, C.-F.<sup>#</sup>, Chang, Y.-W., Fan, Y.-C., Lin, S.-H., Wu, Y.-C., Huang, H.-C.\* , **Juan, H.-F.\*** (2022) "LncRNA SNHG1 regulates neuroblastoma cell fate via interactions with HDAC1/2" *Cell Death & Disease* 13:809.
11. Li, P.-H., Chen, T.-F., Yu, J.-Y., Shih, S.-H., Su, C.-H., Lin, Y.-H., Tsai, H.-K., **Juan, H.-F.**, Chen, C.-Y., Huang, J.-H. (2022) "pubmedKB: an interactive web server for exploring biomedical entity relations in the biomedical literature" *Nucleic Acids Research* 50(W1):W616-W622.
12. Chang, Y.-W., Wang, C.-C., Yin, C.-F., Wu, C.-H., Huang, H.-C.\* , **Juan, H.-F.\*** (2022) "Quantitative phosphoproteomics reveals ectopic ATP synthase on mesenchymal stem cells to promote tumor progression via ERK/c-Fos pathway activation" *Molecular & Cellular Proteomics* 21(6):100237.
13. Li, A., Chen, J.-Y., Hsu, C.-L., Oyang, Y.-J., Huang, H.-C.\* , **Juan, H.-F.\*** (2022) "A single-cell network-based drug repositioning strategy for post-COVID-19 pulmonary fibrosis" *Pharmaceutics* 14:971.
14. Lee, R. K.-L., Li, T.-N., Chang, S.-Y., Chao, T.-L., Kuo, C.-H., Pan, M. Y.-C., Chiou, Y.-T., Liao, K.-J., Yang, Y., Wu, Y.-H., Huang, C.-H., **Juan, H.-F.**, Hsieh, H.-P., Wang, L. H.-C. (2022) "Identification of entry inhibitors against delta and omicron variants of SARS-CoV-2" *International Journal of Molecular Sciences* 23:4050.

15. Yin, C.-F.<sup>#</sup>, Chang, Y.-W.<sup>#</sup>, Huang, H.-C.\* , **Juan, H.-F.\*** (2022) "Targeting protein interaction networks in mitochondria dynamics for cancer therapy" *Drug Discovery Today* 27(4): 1077-1087.
16. Ko, K.-Y., Chen, C.-Y., **Juan, H.-F.\*** and Huang, H.-C.\* (2022) "Phylotranscriptomic patterns of network stochasticity and pathway dynamics during embryogenesis" *Bioinformatics* 38(3):763-769.
17. Chang, C.-S.<sup>#</sup>, Yu, W.-H.<sup>#</sup>, Ruan, J.-W., Huang, C.-T., Lin, C.-M., Tsai, Y.-T., Lin, I.-J., Lai, C.-Y., Chang, C.-W., Chuang, T.-H., Lin, W.-J., Tan, T.-H., Huang, H.-C., **Juan, H.-F.**, Kao, C.-Y.\* (2022) "Single-cell RNA sequencing uncovers the individual alteration of intestinal mucosal immunocytes in *Dusp6* knockout mice" *iScience* 25(2):103738.
18. Yu, P.-C.<sup>#</sup>, Huang, C.-H.<sup>#</sup>, Kuo, C.-J., Liang, P.-H., Wang, L.H.-C., Pan, M. Y.-C., Chang, S.-Y. Chao, T.-L., Jeong, S., Fang, J.-T., Huang, H.-C.\* , **Juan, H.-F.\*** (2022) "Drug repurposing for the identification of compounds with anti-SARS-CoV-2 capability via multiple targets" *Pharmaceutics* 14:176.
19. Hsieh, C.-H.<sup>#</sup>, Yeh, H.-N.<sup>#</sup>, Huang, C.-T., Wang, W.-H., Hsu, W.-M., Huang, H.-C.\* , **Juan, H.-F.\*** (2022) "BI-2536 Promotes Neuroblastoma Cell Death via Minichromosome Maintenance Complex Components 2 and 10" *Pharmaceutics* 15:37.
20. Yu, W.-H., Hsu, C.-L., Lin, C.-C., Oyang, Y.-J., **Juan, H.-F.\*** and Huang, H.-C.\* (2021) "Stratification of lncRNA modulation networks in breast cancer" *BMC Medical Genomics* 14:300.
21. Li, A., Yu, W.-H., Hsu, C.-L., Huang, H.-C.\* , **Juan, H.-F.\*** (2021) "Modular signature of long non-coding RNA association networks as a prognostic biomarker in lung cancer" *BMC Medical Genomics* 14:290.
22. Chang, C.-S., Liao, Y.-C., Huang, C.-T., Lin, C.-M., Cheung, C. H. Y., Ruan, J.-W., Yu, W.-H., Tsai, Y.-T., Lin, I.-J., Huang, C.-H., Liou, J.-S., Chou, Y.-H., Chien, H.-J., Chuang, H.-L., **Juan, H.-F.**, Huang, H.-C., Chan, H.-L., Liao, Y.-C., Tang, S.-C., Su, Y.-W., Tan, T.-H., Bäuml, A. J., Kao, C.-Y.\* (2021) "Discovery of a novel microbiota member that ameliorates dss-induced colitis in gut barrier enhanced *Dusp6*-deficient mice" *Cell Reports* 37:110016.
23. Tu, Y.-H., **Juan, H.-F.\*** and Huang, H.-C.\* (2021) "Identification of cell states using super-enhancer RNA" *BMC Genomics* 22:787.
24. Lee, K.-H., Chang, Y.-C., Chen, T.-F., **Juan, H.-F.**, Tsai, H.-K., Chen, C.-Y. (2021) "Connecting MHC-I-binding motifs with HLA alleles via deep learning" *Communications Biology* 4:1194.
25. Li, A., Huang, H.-T., Huang, H.-C.\* , **Juan, H.-F.\*** (2021) "LncTx: A network-based method to repurpose drugs acting on the survival-related lncRNAs in lung cancer" *Computational and Structural Biotechnology Journal* 19:3990-4002.
26. Lee, T.-T., Chen, P.-L., Su, M. P., Li, J.-C., Chang, Y.-W., Liu, R.-W., **Juan, H.-F.**, Yang, J.-M., Chan, S.-P., Tsai, Y.-C., von Stockum, S., Ziviani, E., Kamikouchi, A., Wang, H.-D., Chen, C.-H. (2021) "Loss of *Fis1* impairs proteostasis during skeletal muscle aging in *Drosophila*" *Aging Cell* 20(6):e13379.
27. Wang, W.-H., Chen, S.-K., Huang, H.-C.\* , **Juan, H.-F.\*** (2021) "Proteomic analysis reveals metformin suppresses PSMD2, STIP1 and CAP1 for anti-gastric cancer AGS cell proliferation and migration" *ACS Omega* 6(22):14208-14219.
28. Peng, C., Li, Y.-H. Yu, C.-W., Cheng, J.-H., Liu, J.-R., Hsu, J.-L., Hsin, L.-W., Huang, C.-T., **Juan, H.-F.**, Chern, J.-W., Cheng, Y.-S. (2021) "Inhibitor development of MTH1 via high-throughput screening with fragment based library and MTH1 substrate binding cavity" *Bioorganic Chemistry* 110:104813.
29. Chen, T.-F., Chang, Y.-C., Hsiao, Y., Lee, K.-H., Hsiao, Y.-C., Lin, Y.-H., Tu, Y.-C. E., Huang, H.-C., Chen, C.-Y.\* , **Juan, H.-F.\*** (2021) "DockCoV2: a drug database against

- SARS-CoV-2" *Nucleic Acids Research* 49(D1):D1152-D1159.
30. Huang, C.-T., Chao, T.-L., Kao, H.-C., Pang, Y.-H., Lee, W.-H., Hsieh, C.-H., Chang, S.-Y. \*, Huang, H.-C. \*, **Juan, H.-F.**\* (2020) "Enhancement of the IFN- $\beta$ -induced host signature informs repurposed drugs for COVID-19" *Heliyon* 6(12):e05646 (**Cell Press**).
  31. Chang, Y.-W., Hsu, C.-L., Tang, C.-W., Chen, X.-J., Huang, H.-C. \*, **Juan, H.-F.**\* (2020) "Multiomics reveals ectopic ATP synthase blockade induces cancer cell death via a lncRNA-mediated phospho-signaling network" *Molecular and Cellular Proteomics* 19(11):1805-1825.
  32. Wu, A. Y.-T., Sun, Y.-C., Chen, Y.-J., Chou, S. T.-Y., Guo, V., Chien, J. C.-Y., Ko, J. J.-S., Yang, A. L., Huang, H.-C., Chuang, J.-C., Wu, S., Ho, M.-R., Ericsson, M., Lin, W.-W., Cheung, C. H. Y., **Juan, H.-F.**, Ueda, K., Chen Y., Lai C. P.-K. (2020) "Multi-resolution imaging using bioluminescence resonance energy transfer identifies distinct biodistribution profiles of extracellular vesicles and exomeres with redirected tropism" *Advanced Science* 7: 2001467.
  33. Cheung, H. Y. C., Hsu, C.-L., Lin, T.-Y., Chen, W.-T., Wang, Y.-C., Huang, H.-C. \*, **Juan, H.-F.**\* (2020) "ZNF322A-mediated protein phosphorylation induces autophagosome formation through modulation of IRS1-AKT glucose uptake and HSP-elicited UPR in lung cancer" *Journal of Biomedical Science* 27(1):75.
  34. Wang, W.-H., Hsu, C.-L., Huang, H.-C. \*, **Juan, H.-F.**\* (2020) "Quantitative phosphoproteomics reveals cell alignment and mitochondrial length change under cyclic stretching in lung cells" *International Journal of Molecular Sciences* 21(11):4074.
  35. Yin, C.-F., Kao, S.-C., Hsu, C.-L., Cheung, C. H.Y., Chang, Y.-W., Huang, H.-C. \*, **Juan, H.-F.**\* (2020) "Phosphoproteome analysis reveals dynamic heat shock protein 27 phosphorylation in tanshinone IIA-induced cell death" *Journal of Proteome Research* 19(4):1620-1634.
  36. Lee, P.-C. Chen, S.-T., Kuo, T.-C., Lin, T.-C., Lin, M.-C., Huang, J., Hung, J.-S., Hsu, C.-L., **Juan, H.-F.**, Lee, P.-H., and Huang, M.-C. (2020) "C1GALT1 is associated with poor survival and promotes soluble Ephrin A1-mediated cell migration through activation of EPHA2 in gastric cancer" *Oncogene* 39(13):2724-2740.
  37. Lee, W.-H., Chen, K.-P., Wang, K., Huang, H.-C. \*, **Juan, H.-F.**\* (2020) "Characterizing the cancer-associated microbiome with small RNA sequencing data" *Biochemical and Biophysical Research Communications* 522:776-782.
  38. Chang, H.-C., Huang, H.-C., **Juan, H.-F.**\*, Hsu, C.-L.\* (2019) "Investigating the role of super-enhancer RNAs underlying embryonic stem cell differentiation" *BMC Genomics* 20(Suppl 10):896.
  39. 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* 18(11):3850-3866.
  40. 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. \*, **Juan, H.-F.**\* (2019) "Combinatorial targeting of MTHFD2 and PAICS in purine synthesis as a novel therapeutic strategy" *Cell Death & Disease* 10:786.
  41. 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* 79(21):5550-5562.

42. 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.
43. Huang, C.-T., Hsieh, C.-H., Chung, Y.-H., Oyang, Y.-J., Huang, H.-C. \*, **Juan, H.-F.** \* (2019) "Perturbational gene-expression signatures for combinatorial drug discovery" *iScience* 15:291-306 (**Cell Press**).
44. Yang, T.-W., Sahu, D., Chang, Y.-W., Hsu, C.-L., Hsieh, C.-H., Huang, H.-C. \*, **Juan, H.-F.** \* (2019) "RNA-binding proteomics reveals MATR3 interacting with lncRNA SNHG1 to enhance neuroblastoma progression" *Journal of Proteome Research* 18: 406-416.
45. Chang, J.-Y., Yu, W.-H., **Juan, H.-F.** \*, Huang, H.-C. \* (2018) "Dynamics of alternative polyadenylation in human preimplantation embryos" *Biochemical and Biophysical Research Communications* 504(4):727-733.
46. Huang, C.-T., Hsieh, C.-H., Oyang, Y.-J., Huang, H.-C. \*, **Juan, H.-F.** \* (2018) "A large-scale gene expression intensity-based similarity metric for drug repositioning" *iScience* 7: 40-52. (**Cell Press**)
47. Lin, M.-C., Chien, P.-H., Wu, H.-Y., Chen, S.-T., **Juan, H.-F.**, Lou, P.-J.\* , Huang, M.-C.\* (2018) "C1GALT1 predicts poor prognosis and is a potential therapeutic target in head and neck cancer" *Oncogene* 37:5780-5793.
48. Sahu, D., Ho, S.-Y., **Juan, H.-F.**\*, Huang, H.-C.\* (2018) "High-risk, expression-based prognostic long noncoding RNA signature in neuroblastoma" *JNCI Cancer Spectrum* 2(2): pky015.
49. Cheng, A.-N., Fan, C.-C., Lo, Y.-K., Kuo, C.-L., Wang, H.-C., Lien, I.-H., Lin, S.-Y., Chen, C.-H., Jiang, S. S., Chang, I.-S., **Juan, H.-F.**, Lyu, P.-C., Lee, A Y.-L.\* (2017) "Cdc7-Dbf4-mediated phosphorylation of HSP90-S164 stabilizes HSP90-HCLK2-MRN complex to enhance ATR/ATM signaling that overcomes replication stress in cancer" *Scientific Reports* 7(1):17024.
50. Cheung, H. Y. C., Hsu, C.-L., Chen, K.-P., Chong, S.-T., Huang, H.-C. \*, **Juan, H.-F.** \* (2017) "MCM2-regulated functional networks in lung cancer by multi-dimensional proteomic approach" *Scientific Reports* 7(1):13302.
51. Hsu, C.-L., Wang, J.-K., Lu, P.-C., Huang, H.-C. \*, and **Juan, H.-F.** \* (2017) "DynaPho: a web platform for inferring the dynamics of time-series phosphoproteomics" *Bioinformatics* 33(22):3664-3666.
52. Hua, K.-T., Liu, Y.-F., Hsu, C.-L., Cheng, T.-Y., Yang, C.-Y., Chang, J.-S., Lee, W.-J., Hsiao, M., **Juan, H.-F.**, Chien, M.-H. \*, Yang, S.-F. \* (2017) "3'UTR polymorphisms of carbonic anhydrase IX determine the miR-34a targeting efficiency and prognosis of hepatocellular carcinoma" *Scientific Reports* 7:4466.
53. Cheung, C. H.-Y., **Juan, H.-F.** \* (2017) "Quantitative Proteomics in Lung Cancer" *Journal of Biomedical Science* 24:37.
54. Liao, S.-Y., Chiang, C.-W., Hsu, C.-H., Jen, J., **Juan, H.-F.**, Lai, W.-W., and Wang, Y.-C.\* (2017) "CK1δ/GSK3β/FBXW7α axis promotes degradation of the ZNF322A oncoprotein to suppress lung cancer progression" *Oncogene* 36(41):5722-5733.
55. Lin, T.-C., Chen, S.-T., Huang, M.-C., Huang, J., Hsu, C.-L., **Juan, H.-F.**, Lin, H.-H., Chen, C.-H. \* (2017) "GALNT6 expression enhances aggressive phenotypes of ovarian cancer cells by regulating EGFR activity" *Oncotarget* 8(26):42588-42601.
56. Lin, M.-C., Lin, J.-J., Hsu, C.-L., **Juan, H.-F.**, Lou, P.-J.\* , Huang, M.-C.\* (2017) "GATA3 interacts with and stabilizes HIF-1α to enhance cancer cell invasiveness" *Oncogene* 36(30):4380.
57. Chang, H.-H., Liu, Y.-L., Lu, M.-Y., Jou, S.-T., Yang, Y.-L., Lin, D.-T., Lin, K.-H., Tzen, K.-Y., Yen, R.-F., Lu, C.-C., Liu, C.-J., Peng, S. S.-F., Jeng, Y.-M., Huang, S.-F., Lee, H., **Juan, H.-F.**,



- Huang, M.-C., Liao, Y.-F., Lee, Y.-L.\* , Hsu, W.-M.\* (2017) "A multidisciplinary team care approach to improving outcomes in pediatric patients with high-risk neuroblastoma" *Oncotarget* 8(3):4360-72.
58. Wang, Y.-T., Chiang, H.-H., Huang, Y.-S., Hsu, C.-L., Yang, P.-J., **Juan, H.-F.**, Yang, W.-S.\* (2016) "A link between adipogenesis and innate immunity: RNase-L promotes 3T3-L1 adipogenesis by destabilizing Pref-1 mRNA" *Cell Death and Disease* 7(11):e2458.
  59. Wu, C.-H., Hsu, C.-L., Lu, P.-C., Lin, W.-C., **Juan, H.-F.\***, Huang, H.-C.\* (2016) "Identification of lncRNA functions in lung cancer based on associated protein-protein interaction modules" *Scientific Reports* 6:35939.
  60. Sahu, D., Hsu, C.-L., Lin, C.-C., Yang, T.-W., Hsu, W.-M., Ho, S.-Y., **Juan, H.-F.\***, Huang, H.-C.\* (2016) "Co-expression analysis identifies long noncoding RNA SNHG1 as a novel predictor for event-free survival in neuroblastoma" *Oncotarget* 9(36): 58022-37.
  61. Hsu, C.-L., Chang, H.-Y., Chang, J.-Y., Hsu, W.-M., Huang, H.-C.\* and **Juan, H.-F.\*** (2016) "Unveiling MYCN regulatory networks in neuroblastoma via integrative analysis of heterogeneous genomics data" *Oncotarget* 7(24):36293-310.
  62. Lin, M.-T., Wang, C.-Y., Xie, H.-J., Cheung, C. H. Y., Hsieh, C.-H., **Juan, H.-F.**, Chen, B.-S., C. Lin\* (2016) "Novel utilization of terminators in the design of biologically adjustable synthetic filters" *ACS Synthetic Biology* 5(5):365-74.
  63. Jen, J., Lin, L.-L., Lo, F.-Y., Chen, H.-T., Liao, S.-Y., Tang, Y.-A., Hsu, H.-S., Salgia, R., Hsu, C.-L., Huang, H.-C., **Juan, H.-F.\***, Wang, Y.-C.\* (2016) "Oncoprotein ZNF322A transcriptionally deregulates alpha-adducin, cyclin D1 and p53 to promote tumor growth and metastasis in lung cancer" *Oncogene* 35(18):2357-69.
  64. Liu, S.-Y., Shun, C.-T., Hung, K.-Y., **Juan, H.-F.**, Hsu, C.-L., Huang, M.-C.\* , Lai, I-R.\* (2016) "Mucin glycosylating enzyme GALNT2 suppresses malignancy in gastric adenocarcinoma by reducing MET phosphorylation" *Oncotarget* 7(10):11251-62.
  65. Klionsky, D.-J., *et al.* (2016) "Guidelines for the use and interpretation of assays for monitoring autophagy" *Autophagy* 12(1):1-222.
  66. Hu, C.-W., Hsu, C.-L., Wang, Y.-C., Ishihama, Y., Ku, W.-C., Huang, H.-C.\* and **Juan, H.-F.\*** (2015) "Temporal phosphoproteome dynamics induced by an ATP synthase inhibitor citreoviridin" *Molecular & Cellular Proteomics* 14(12):3284-98.
  67. Hsu, C.-L., **Juan, H.-F.\***, and Huang, H.-C.\* (2015) "Functional analysis and characterization of differential coexpression networks" *Scientific Reports* 5:13295.
  68. Lin, L.-L., Hsu, C.-L., Hu, C.-W., Ko, S.-Y., Hsieh, H.-L., Huang, H.-C.\* , **Juan, H.-F.\*** (2015) "Integrating phosphoproteomics and bioinformatics to study brassinosteroid-regulated phosphorylation dynamics in *Arabidopsis*" *BMC Genomics* 16:533. (**Highly accessed**)
  69. Lin, L.-L., Huang, H.-C.\* , **Juan, H.-F.\*** (2015) "Circadian systems biology in metazoa" *Briefings in Bioinformatics* 16(6):1008-24.
  70. Huang, M.-J., Hu, R.-H., Chou, C.-H., Hsu, C.-L., Liu, Y.-W., Huang, J., Hung, J.-S., Lai, I-R., **Juan, H.-F.**, Yu, S.-L., Wu, Y.-M.\* and Huang, M.-C.\* (2015) "Knockdown of GALNT1 suppresses malignant phenotype of hepatocellular carcinoma by suppressing EGFR signaling" *Oncotarget* 6(8):5650-65.
  71. Kao, T.-Y., Chiu, Y.-C., Fang, W.-C., Cheng, C.-W., Kuo, C.-Y., Juan, H.-F., Wu, S.-H.\* and Lee, A. Y.-L.\* (2015) "Mitochondrial Lon regulates apoptosis through the association with Hsp60-mtHsp70 complex" *Cell Death & Disease* 6:e1642.
  72. Lin, L.-L., Hsia, C.-R., Hsu, C.-L., Huang, H.-C.\* and **Juan, H.-F.\*** (2015) "Integrating transcriptomics and proteomics to show that tanshinone IIA suppresses cell growth by blocking glucose metabolism in gastric cancer cells" *BMC Genomics* 16(1):41.
  73. Chang, H.-Y., Li, M.-H., Huang, T.-C., Hsu, C.-L., Tsai, S.-R., Lee, S.-C.\* , Huang, H.-C.\* and **Juan, H.-F.\*** (2015) "Quantitative proteomics reveals middle infrared radiation-interfered

- networks in breast cancer cells" *Journal of Proteome Research* 14(2):1250-62.
74. Chang, H.-Y., Huang, T.-C., Chen, N.-N., Huang, H.-C.\* and **Juan, H.-F.\*** (2014) "Combination therapy targeting ectopic ATP synthase and 26s proteasome induces ER stress in breast cancer cells" *Cell Death & Disease* 5:e1540.
  75. Chen, C.-Y., Ho, A., Huang, H.-Y., **Juan, H.-F.\*** and Huang, H.-C.\* (2014) "Dissecting the human protein-protein interaction network via phylogenetic decomposition" *Scientific Reports* 4:7153.
  76. Huang, C.-T., Oyang, Y.-J., Huang, H.-C.\* and **Juan, H.-F.\*** (2014) "MicroRNA-mediated networks underlie immune response regulation in papillary thyroid carcinoma" *Scientific Reports* 4:6495.
  77. Lin, L.-L., Huang, H.-C.\*, **Juan, H.-F.\*** (2014) "Deciphering molecular determinants of chemotherapy in gastrointestinal malignancy using systems biology approaches" *Drug Discovery Today* 19(9):1402-1409.
  78. Yang, K.-C., Hsu, C.-L., Lin, C.-C., **Juan, H.-F.\*** and Huang, H.-C.\* (2014) "Mirin: identifying microRNA regulatory modules in protein-protein interaction networks" *Bioinformatics* 30(17):2527-2528.
  79. Chen, C.-M., Chen, I.-C., Huang, Y.-C., **Juan, H.-F.**, Chen, Y.-L., Chen, Y.-C., Lin, C.-H., Lee, L.-C., Lee, C.-M., Lee-Chen, G.-J., Lai, Y.-J., and Wu, Y.-R. (2014) "FBXO7 Y52C polymorphism as a potential protective factor in parkinson's disease" *PLoS ONE* 9(7):e101392.
  80. 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.
  81. 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 Letters* 346(1):84-93.
  82. 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.
  83. 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.
  84. 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.
  85. 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.
  86. 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.
  87. 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.

88. 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.
89. Chang, H.-Y., Shih, M.-H., Huang, H.-C., Tsai, S.-R., **Juan, H.-F.**\* , Lee, S.-C.\* (2013) "Middle infrared radiation induces G2/M cell cycle arrest in A549 lung cancer cells" *PLoS ONE* 8(1): e54117. **(Featured on PLoS Blog)**
90. Fu, S.-C., Huang, H.-C., Horton, P.\* and **Juan, H.-F.**\* (2013) "ValidNESs: a database of validated leucine-rich nuclear export signals" *Nucleic Acids Research* 41(D1):D338-D343.
91. Chen, C.-Y., Chen, S.-T., **Juan, H.-F.**\* and Huang, H.-C.\* (2012) "Lengthening of 3'UTR increases morphological complexity in animal evolution" *Bioinformatics* 28(24):3178-3181. **(ESI 2013 Highly cited papers)**
92. 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.\* and Chen, C.-S.\* (2012) "Profiling lipid-protein interactions using non-quenched fluorescent liposomal nanovesicles and proteome microarrays" *Molecular & Cellular Proteomics* 11(11):1177-1190.
93. 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.\* (2012) "Phosphoproteomic analysis of *Rhodospseudomonas palustris* reveals the role of pyruvate phosphate dikinase phosphorylation in lipid production" *Journal of Proteome Research* 11:5362-5375.
94. 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.**\* (2012) "Systems biology of meridians, acupoints, and Chinese herbs in disease" *Evidence-Based Complementary and Alternative Medicine* 2012:372670.
95. Lin, L.-L., Huang, H.-C., Ogihara, S., Wang, J.-T., Wu, M.-C., McNeil, P. L.\* , Chen, C.-N.\* and **Juan, H.-F.**\* (2012) "*Helicobacter pylori* disrupts host cell membranes, initiating a repair response and cell proliferation" *International Journal of Molecular Sciences* 13:10176-10192.
96. Lin, L.-L., Huang, H.-C.\* , and **Juan, H.-F.**\* (2012) "Revealing the molecular mechanism of gastric cancer marker Annexin A4 in cancer cell proliferation using exon arrays" *PLoS ONE* 7(9):e44615.
97. Chang, H.-Y., Huang, H.-C., Huang, T.-C., Yang, P.-C.\* , Wang, Y.-C.\* , and **Juan, H.-F.**\* (2012) "Ectopic ATP synthase blockade suppresses lung adenocarcinoma growth by activating the unfolded protein response" *Cancer Research* 72(18):4696-4706.
98. Lin, L.-L., Huang, H.-C.\* and **Juan, H.-F.**\* (2012) "Discovery of biomarkers for gastric cancer: a proteomics approach" *Journal of Proteomics* 75(11):3081-3097.
99. Chang, M.-W., Lo, J.-M., **Juan, H.-F.**, H.-Y. Chang, Chuang, C.-Y.\* (2012) "Combination of RGD compound and low-dose Paclitaxel induces apoptosis in human glioblastoma cells" *PLoS ONE* 7(5):e37935.
100. Tseng, C.-W., Huang, H.-C., Shih, A. C.-C., Chang, Y.-Y., Hsu, C. C., Chang, J.-Y., Li, W.-H.\* and **Juan, H.-F.**\* (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.
101. Lin, C.-C., Chen, Y.-J., Chen, C.-Y., Oyang, Y.-J., **Juan, H.-F.**\* and Huang, H.-C.\* (2012) "Crosstalk between transcription factors and microRNAs in human protein interaction network" *BMC Systems Biology* 6(1):18. **(Highly accessed)**
102. 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.\* , Hsu, W.-M.\* , and Liao, Y.-F.\* (2012) "Calreticulin mediates nerve growth factor-induced neuronal differentiation" *Journal of Molecular Neuroscience* 47(3):571-81.

103. Hu, C.-W., Chang, Y.-L., Chen, S. J., Kuo-Huang, L.-L., Liao, J. C., Huang, H.-C.\* , **Juan, H.-F.\*** (2011) "Revealing the functions of the transketolase enzyme isoforms in *Rhodospseudomonas palustris* using a systems biology approach" *PLoS ONE* 6:e28329.
104. 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" *FEBS Letters* 585:3582-3586.
105. Tsai, S.-R.#, Huang, T.-C.#, Liang, C.-M., Chang, H.-Y., Chang, Y.-T., Huang, H.-C., **Juan, H.-F.\***, Lee, S.-C.\* (2011) "The effect of narrow bandwidth infrared radiation on the growth of *Escherichia coli*" *Applied Physics Letters* 99:163704. (# equal contribution)
106. 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.\* , Liao, Y.-F.\* (2011) "Nuclear GRP75 binds retinoic acid receptors to promote neuronal differentiation of neuroblastoma" *PLoS ONE* 6(10):e26236.
107. 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.\* , Lai, H.-S.\* (2011) "Insulin-like growth factor II mRNA-binding protein 3 expression predicts unfavorable prognosis in patients with neuroblastoma" *Cancer Science* 102:2191-2198.
108. Lee, C.-H., Huang, H.-C.\* , **Juan, H.-F.\*** (2011) "Reviewing ligand-based rational drug design: the search for an ATP synthase inhibitor" *International Journal of Molecular Sciences* 12:5304-5318.
109. 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.\* , Wu, Y.-R. (2011) "ATP13A2 variability in Taiwanese Parkinson's disease" *Am J Med Genet B Neuropsychiatr Genet.* 156:720-729.
110. Tseng, C.-W., Lin, C.-C., Chen, C.-N.\* , Huang, H.-C.\* , **Juan, H.-F.\*** (2011) "Integrative network analysis reveals active microRNAs and their functions in gastric cancer" *BMC Systems Biology* 5:99. (**Highly accessed**)
111. Tseng, C.-W., Yang, J.-C., Chen, C.-N.\* , Huang, H.-C., Chuang, K.-N., Lin, C.-C., Lai, H.-S., Lee, P.-H., Chang, K.-J., **Juan, H.-F.\*** (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.
112. Chen, C.-Y., Chen, S.-T., Fuh, C.-S., **Juan, H.-F.\***, Huang H.-C.\* (2011) "Coregulation of transcription factors and microRNAs in transcriptional regulatory network" *BMC Bioinformatics* 12 (Suppl 1):S41. (**ESI 2013 Highly cited papers**)
113. 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.\* , Cheng, H.-C.\* , Wang, Y.-C.\* (2011) "A novel sialyltransferase inhibitor suppresses FAK/paxillin and angiogenesis signaling and cancer metastasis" *Cancer Research* 71:473-483.
114. Hsu, J.-W., Huang H.-C., Chen, S.-T., Wong, C.-H., **Juan, H.-F.\*** (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.
115. Lin, C.-C., Hsiang, J.-T., Wu, C.-Y., Oyang, Y.-J., **Juan, H.-F.\***, Huang H.-C.\* (2010) "Dynamic functional modules in co-expressed protein interaction networks of dilated cardiomyopathy" *BMC Systems Biology* 4:138.
116. Chang, H.-H., Lee, H.-Y., Hu, M.-K., Tsao, P.-N., **Juan, H.-F.**, Huang, M.-C., Shih, Y.-Y., Wang, B.-J., Jeng, Y.-M., Chang, C., Huang, S.-F., Y.-G. Tsay, Hsieh, F.-J., Lin, K.-H.\* , Hsu, W.-M.\* , and Liao, Y.-F.\* (2010) "Notch1 expression predicts an unfavorable prognosis and

- serves as a therapeutic target of patients with neuroblastoma" *Clinical Cancer Research* 16:4411-4420.
117. Hwang Y.-C., Lin C.-C., Chang J.-Y., Mori H., **Juan, H.-F.\***, Huang H.-C.\* (2009) "Predicting essential genes based on network and sequence analysis" *Molecular BioSystems* 5:1672–1678.
  118. Lin, C.-C., **Juan, H.-F.**, Hsiang, J.-T., Hwang, Y.-C., Mori, H.\* , Huang, H.-C.\* (2009) "Essential core of protein-protein interaction network in *Escherichia coli*" *Journal of Proteome Research* 8:1925-1931.
  119. Chang, Y.-M., **Juan, H.-F.**, Lee, T.-Y., Chang, Y.-Y., Yeh, Y.-M., Li, W.-H.\* , Shih, A. C.-C.\* (2008) "Prediction of human miRNAs using tissue-selective motifs in 3' UTRs" *Proc. Natl. Acad. Sci. U S A* 105:17061-17066. (**Highlighted in Nature Biotechnology and in Science-Business eXchange (SciBX)**)
  120. Fang, Y.-C., Huang, H.-C., Chen, H.-H. and **Juan, H.-F.\*** (2008) "TCMGeneDIT: a database for associated traditional Chinese medicine, gene and disease information using text mining" *BMC Complementary and Alternative Medicine* 8:58.
  121. W.-M. Hsu, H.-Y. Lee, **Juan, H.-F.**, Y.-Y. Shih, B.-J. Wang, C.-Y. Pan, Y.-M. Jeng, H.-H. Chang, M.-Y. Lu, K.-H. Lin, H.-S. Lai, W.-J. Chen, Y.-G. Tsay\*, Y.-F. Liao\*, F.-J. Hsieh\* (2008) "Identification of GRP75 as an independent favorable prognostic marker of neuroblastoma by a proteomics analysis" *Clinical Cancer Research* 14:6237-6245.
  122. Hsu, C.-W., **Juan, H.-F.\***, Huang, H.-C.\* (2008) "Characterization of microRNA-regulated protein-protein interaction network" *Proteomics* 8:1975-1979.
  123. Lin, L.-L., C.-N. Chen\*, Lin, W.-C., Lee, P.-H., Chang, K.-J., Lai, Y.-P., Wang, J.-T., **Juan, H.-F.\*** (2008) "Annexin A4: A novel molecular marker for gastric cancer with *Helicobacter pylori* infection using proteomics approach" *Proteomics: clinical applications* 2:619–634.
  124. Chen, S.-T., Pan, T.-L., **Juan, H.-F.**, Chen, T.-Y., Lin, Y.-S., Huang, C.-M.\* (2008) " Breast tumor microenvironment: proteomics highlights the treatments targeting secretome" *Journal of Proteome Research* 7:1379-1387.
  125. 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" *Journal of Proteome Research* 7:1433-1444 (**Science Daily news & ACS weekly news**)
  126. Chen, H.-W., Huang, H.-C., Lin, Y.-S., Chang, K.-J., Kuo, W.-H., Hwa, H.-L., Hsieh, F.-J.\* , **Juan, H.-F.\*** (2008) "Comparison and identification of estrogen-receptor related gene expression profiles in breast cancer of different ethnic origins" *Breast Cancer: Basic and Clinical Research* 1:35-49.
  127. Tan, Y.-H., Lee, K.-H., Lin, T., Sun, Y.-C., Hsieh-Li, H.-M. **Juan, H.-F.\***, Y.-C. Wang\* (2008) "Cytotoxicity and proteomics analyses of OSU03013 in lung cancer" *Clinical Cancer Research* 14:1823-1830.
  128. Fang, Y.-C., Huang, H.-C.\* , **Juan, H.-F.\*** (2008) "MeInfoText: associated gene methylation and cancer information from text mining" *BMC Bioinformatics* 9:22 (**Highly accessed**)
  129. Huang, B., Ni, K.-C., Chen, S.-L., **Juan, H.-F.\***, Chen Y.-M.\* (2008) "Elucidating the growth regulation of brassinosteroids in mung bean epicotyls using a proteomics approach" *Proteomics Research Journal* 1:1-18.
  130. Lien, H.-C., Hsiao, Y.-H., Lin, Y.-S., Yao, Y.-T., **Juan, H.-F.**, Kuo, W.-H., Hung, M.-C., Chang, K.-J., Hsieh, F.-J.\* (2007) "Molecular signatures of metaplastic carcinoma of the breast by large-scale transcriptional profiling: identification of genes potentially related to epithelial-mesenchymal transition" *Oncogene* (Nature Publication Group Journal) 26:7859-7871.
  131. Cheng, K.-C., Huang, H.-C., Chen, J.-H., Hsu, J.-W., Cheng, H.-C., Ou, C.-H., Yang, W.-B., Chen, S.-T., Wong, C.-H., **Juan, H.-F.\*** (2007) "*Ganoderma lucidum* polysaccharides in

- human monocytic leukemia cells: from gene expression to network construction" *BMC Genomics* 8:411 (**Highly accessed**)
132. Huang, T.-C., Huang, H.-C., Chang, C.-C., Chang, H.-Y., Ou, C.-H., Hsu, C.-H., Chen, S.-T., **Juan, H.-F.**\* (2007) "An apoptosis-related gene network induced by novel compound-cRGD in human breast cancer cells" *FEBS Letters* 581:3517-3522.
133. Leu, J.-H., Chang, C.-C., 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*" *BMC Genomics* 8:120. (**Highly accessed**)
134. Fang, Y.-C., Sun, W.-H.\* , Wu, L.-C., Huang, H.-D., **Juan, H.-F.**, Horng, J.-T.\* (2006) "RINGdb: An integrated database for G protein-coupled receptors and regulators of G protein signaling" *BMC Genomics* 7:317. (**Highly accessed**)
135. Tseng, H.-W., **Juan, H.-F.**, Huang, H.-C., Lin, J. Y.-C., Sinchaikul, S., Chen, C.-F., Chen, S.-T.\* , Wang, G.-J.\* (2006) "A systems biology study of lipopolysaccharide-stimulated responses in rat aortic endothelial cell" *Proteomics* 6:5915-5928.
136. Chen, Y.-R., **Juan, H.-F.**, Huang, H.-C., Huang, H.-H., Lee, Y.-J., Liao, M.-Y., Tseng, C.-W., Lin, L.-L., M.-Y. Chen, J.-Y., Wang, M.-J., J.-H. Chen\*, Y.-J. Chen\* (2006) "Quantitative proteomic and genomic profiling reveals metastasis-related protein expression patterns in gastric cancer cells" *Journal of Proteome Research* 5:2727-2742.
137. Huang, B., Chu, C.-H., Chen, S.-L., **Juan, H.-F.**\* and Chen, Y.-M.\* (2006) "Proteomics study of mung bean epicotyl regulated by brassinosteroid under chilling stress" *Cellular & Molecular Biology Letters* 11:264-278.
138. **Juan, H.-F.**\* , Wang, I.-H., Huang, T.-C., Li, J.-J., Chen, S.-T., Huang, H.-C. (2006) "Proteomics analysis of a novel compound – cyclic RGD in breast carcinoma cell line MCF-7" *Proteomics* 6:2991-3000. (**Cover Picture**)
139. Lee, T.-Y., Horng, J.-T., **Juan, H.-F.**, Huang, H.-D., Wu, L.-C., Lin, F.-M., Huang, H.-C (2006) "An agent-based system to discover protein-protein interactions, identify protein complexes and proteins with multiple peptide mass fingerprints" *Journal of Computational Chemistry* 27:1020-1032.
140. Horng, J.-T., Lee, T.-Y., Wu, L.-C., Huang, H.-D., **Juan, H.-F.**, Lin, F.-M. (2005) "MultiProtIdent: identifying proteins using database search and protein-protein interactions" *Journal Proteome Research* 4:690-697.
141. **Juan, H.-F.**\* , Chang, S.-C., Huang, H.-C., Chen, S.-T. (2005) "A new application of microwave technology to proteomics" *Proteomics* 5:840-842.
142. Wu, C.-C., Huang, H.-C., **Juan, H.-F.**, Chen, S.-T. (2004) "GeneNetwork: an interactive tool for reconstruction of genetic networks using microarray data" *Bioinformatics* 20: 3691-3693.
143. Chen, C.-Y., Oyang, Y.-J., **Juan, H.-F.** (2004) "Incremental generation of summarized clustering hierarchy for protein family analysis" *Bioinformatics* 20:2586-96.
144. **Juan, H.-F.**, Chen, J.-H., Hsu, W.-T., Huang, S.-C., Chen, S.-T., Lin, J. Y. C., Chang, Y.-W., Chiang, C.-Y., Wen, L.-L., Chan, D.-C., Liu, Y.-C., Chen, Y.-J. (2004) "Identification of tumor-associated plasma biomarkers using proteomic techniques: from mouse to human" *Proteomics* 4: 2766-2775. (**Cover Picture**).
145. Wu, C.-Y. Jan, J.-T., Ma, H.-H., Kuo, C.-J., **Juan, H.-F.**, Cheng, Y.-S. E., Hsu, H.-H., Huang, H.-C., Wu, D., Brik, A., Liang, F.-S., Liu, R.-S., Fang J.-M., Chen, S.-T., Liang P.-H. and Chi-Huey Wong (2004) "Small molecules targeting Severe Acute Respiratory Syndrome (SARS) human coronavirus" *Proc. Natl. Acad. Sci. U S A* 101: 10012-10017.
146. **Juan, H.-F.**, Liu, H.-L., Hsu, J.-P. (2004) "Recent developments in structural proteomics: from protein identifications and structure determinations to protein-protein interactions" *Current Proteomics* 1: 183-197.

147. Chang, D. T.-H, Chen, C.-Y., Chung, W.-C., Oyang, Y.-J., **Juan, H.-F.**, Huang, H.-C. (2004) "ProteMiner-SSM: A web server for efficient analysis of similar protein tertiary substructures" *Nucleic Acids Research*. **32**: W76-82.
148. Wu, S.-F., Liu, T.-M., Lin, Y.-C., Sytwu, H.-K., **Juan, H.-F.**, Chen, S.-T., Shen, K.-L., Hsi, S.-C., Hsieh, S.-L. (2004) "Immunomodulatory effect of decoy receptor 3 on the differentiation and function of bone-marrow-derived dendritic cells in non-obese diabetic mice: From regulatory mechanism to clinical implication" *Journal of Leukocyte Biology* **75**: 1-14.
149. **Juan, H.-F.**, Lin, J. Y. C., Chang, W. H., Wu, C. Y., Pan, T. L. Tseng, M. J., Khoo, K. H. and Chen, S. T. (2002) "Biomic study of human myloid leukemia cell (HL-60) differentiated to macrophage using DNA array, proteomic, and bioinformatic analytical methods" *Electrophoresis* **23**: 2490 -2504.
150. Sinchaikul, S., Sookkheo, B., Topanuruk, S., **Juan, H.-F.**, Phutrakul, S., and Chen, S.-T. (2002) "The bioinformatics, functional genomics, and proteomics study of Bacillus sp." *J. Chromatogr B* **771**: 261-287.
151. Xu, D.-H., **Juan, H.-F.**, Nohda, M., Ban, T. (2001) "Optimization of AFLP method in wheat and its application to QTL mapping for spike characters" *Breeding Research* **3**: 25.
152. **Juan, H.-F.**, Hung, C.-C., Wang, K.-T., Chiou, S.-H.\* (1999) "Comparison of three classes of snake neurotoxins by homology modeling and computer simulation graphics" *Biochem Biophys Res Commun*. **257**: 500-510.

### **Books**

1. **Juan, H.-F.** and Huang, H.-C. (2018) A Practical Guide to Cancer Systems Biology (World Scientific Publishing, Singapore)
2. **Juan, H.-F.** and Huang, H.-C. (2012) Systems Biology: Applications in cancer-related research (World Scientific Publishing, Singapore).

### **Book Chapters**

1. **Juan, H.-F.** (2019) "Proteomic techniques and their applications" in Biomolecular and Bioanalytical Techniques: Theory, Methodology and Applications, Edited by Vasudevan Ramesh (John Wiley & Sons, Inc., UK), pp.81-99.
2. Siddiqui, H., Sami, F., **Juan, H.-F.**\* and Hayat, S.\* (2019) "Brassinosteroid Regulated Physiological Process: An Omics Perspective" Brassinosteroids: Plant Growth and Development, ed. By Shamsul Hayat, Dr. Mohammad Yusuf, Dr. Renu Bhardwaj & Dr. Andrzej Bajguz (Springer Nature, Singapore), pp. 297-322.
3. **Juan, H.-F.** (2017) "Data Sources for herbal and traditional medicines" in Computational Systems Pharmacology and Toxicology, Edited by Dale Johnson and Rudy J Richardson (The Royal Society of Chemistry, Cambridge, UK), pp. 243-260.
4. **Juan, H.-F.** (2011) "Transcriptomics and proteomics study in regulation of brassinosteroids" in Brassinosteroids: A Class of Plant Hormone, ed. Shamsul Hayat and Aqil Ahmad (Springer, The Netherlands), pp. 393-402.
5. **Juan, H.-F.** and Huang, H.-C. (2007) "Bioinformatics: Microarray Data Clustering and Functional Classification" in Microarrays: Volume 2, Applications and Data Analysis (Methods in Molecular Biology), ed. Jang B. Rampal (The humana press inc.), pp. 405-416.

### **Others**

1. Tsai, M.-J., Jeong, S., Yu, F., Chen, T.-F., Li, P.-H., **Juan, H.-F.**\*, Huang, J.-H., Hsu, Y.-H. (2023) "Translating GWAS findings to inform drug repositioning strategies for COVID-19 treatment" Research Square <https://doi.org/10.21203/rs.3.rs-3443080/v1>
2. Chang, Y.-W., Yang, T. T., Chen, M.-C., Liaw, Y-g., Yin, C.-F., Huang, T.-Y., Hou, J.-T., Hung,

- Y.-H., Hsu, C.-L., Huang, H.-C. \*, **Juan, H.-F.**\* (2020) "Mitochondrial ATP synthase trafficking along microtubules to cell surface depends on KIF5B and DRP1" *bioRxiv* doi: <https://doi.org/10.1101/2020.10.23.352385>.
3. Chang, Y.-C., Tung, Y.-A., Lee, K.-H., Chen, T.-F., Hsiao, Y.-C., Chang, H.-C., Hsieh, T.-T., Su, C.-H., Wang, S.-S., Yu, J.-Y., Shih, S.-s., Lin, Y.-H., Lin, Y.-H., Tu, Y.-C. E., Hsu, C.-H., **Juan, H.-F.**, Tung, C.-W. \*, Chen, C.-Y. \* (2020) "Potential therapeutic agents for COVID-19 based on the analysis of protease and RNA polymerase docking" Preprint doi: 10.20944/preprints202002.0242.v2.
  4. Tu, Y.-H., **Juan, H.-F.**\*, Huang, H.-C.\*. "Identification of cell states using super-enhancer RNA" *bioRxiv* doi: <https://doi.org/10.1101/209387>.
  5. Chang, H.-Y., Huang, H.-C., Huang, T.-C., Yang, P.-C. \*, Wang, Y.-C. \*, and **Juan, H.-F.**\* (2013) "Flow Cytometric Detection of Reactive Oxygen Species" *Bioprotocol* Vol 3, Iss 8, 4/20/2013.
  6. Chang, H.-Y., Huang, H.-C., Huang, T.-C., Yang, P.-C. \*, Wang, Y.-C. \*, and **Juan, H.-F.**\* (2013) "Flow Cytometric Detection of Mitochondrial Membrane Potential" *Bioprotocol* Vol 3, Iss 8, 4/20/2013.
  7. Lin, L.-L., Huang, H.-C., Ogihara, S., Wang, J.-T., Chen, C.-N. \*, and **Juan, H.-F.**\* (2010) "Membrane repair against *H. pylori* promotes cancer cell proliferation" *Nature Precedings* (<http://hdl.handle.net/10101/npre.2010.4887.1>)
  8. Chen, C.-Y., Chen, S.-T., **Juan, H.-F.**\*, and Huang, H.-C. \* (2010) "Lengthening of 3'UTR Increases Morphological Complexity in Animal Evolution" *Nature Precedings* (<http://hdl.handle.net/10101/npre.2010.4915.1>)

#### 科普文章

1. **阮雪芬** (2019). 大數據科學貢獻於明日醫學. 明日醫學. 寶鼎出版社.
2. **阮雪芬**、黃宣誠 (2016). 解析複雜的生命現象—系統生物學. 科學月刊六月號 558: 436-441 (封面故事)
3. 鄞偲帆、高士傑、**阮雪芬** (2015). 丹參的效用—從心血管疾病的治療到抗癌. 科技報導七月號 403 期 (焦點話題)
4. 張心儀、黃翠琴、**阮雪芬** (2009). 大腸桿菌與新能源開發. 科學月刊四月號 472: 289-290 (封面故事)
5. 林怡杏、連晃駿、章麗雲、華筱玲、徐明洸、郭文宏、**阮雪芬**、張金堅、謝豐舟 (2008). DNA 微陣列晶片在乳癌診斷之最新發展. 當代醫學 35: 453-459.
6. **阮雪芬** (2005). 蛋白質體學的介紹. 化工 52: 14-22.
7. **阮雪芬**、陳水田、朱延和 (2002). 王光燦院士--臺灣生物有機化學研究的先驅者。科學發展月刊 357: 60-65.
8. **阮雪芬**、陳益明 (1993). 植物抵抗疾病的免疫反應. 科學農業. 41: 49-53.

#### Conference papers/abstracts

1. Huang, C.-H., Huang, H.-C. \*, **Juan, H.-F.**\* "Exploring the mechanism of monocyte-to-profibrotic macrophage differentiation at a single-cell level in pulmonary fibrosis induced by COVID-19" *Multimomics and Precision Medicine Joint Conference*, Taipei, Taiwan, Nov. 11-12, 2023. **(Best Abstract Award by American Physiology Society, one of Top 4 among 103)**
2. Tseng, T.-Y., Liao, Y.-C., Hsu, C.-L., Ou, D.-L., Hsu, C., Huang, H.-C. \*, **Juan, H.-F.**\* "Single-cell RNA-seq uncovers cancer-associated fibroblast subgroup linked to immune resistance in hepatocellular carcinoma" *Multimomics and Precision Medicine Joint Conference*, Taipei, Taiwan, Nov. 11-12, 2023. **(Best Poster Award)**
3. Chen, Y.-X., Li, A., Hsieh, C.-H., Huang, H.-C. \*, **Juan, H.-F.**\* "Drug discovery for high-risk



- neuroblastoma by targeting tumor heterogeneity at single-cell level" *Multiomics and Precision Medicine Joint Conference*, Taipei, Taiwan, Nov. 11-12, 2023. (**Best Poster Award**)
4. Tung, K.-C., Tu, Y.-H., Hsu, C.-L., **Juan, H.-F.**\*, Huang, H.-C.\* "A framework for modeling single-cell RNA velocity and epigenome transcriptome Interactions" *Multiomics and Precision Medicine Joint Conference*, Taipei, Taiwan, Nov. 11-12, 2023. (**Best Poster Award**)
  5. Ye, Y.-Z., Chou, T.-Y., Lin, I.-J., C.-J. Lien, Jiang, C.-L., Yang, C.-H., Chao, P.-A., Chen, Y.-T. Sun, Y.-Y., **Juan, H.-F.**, Lin, F.-J., Lin, J.-D.\* "Single cell multi-omics analysis identified the roles of serum amyloid a3 (saa3) in regulating macrophage dynamics" *Multiomics and Precision Medicine Joint Conference*, Taipei, Taiwan, Nov. 11-12, 2023. (**Best Poster Award**)
  6. Shih, J.-C., Kuo, C.-H., Chang, H.-Y., Hsieh, C.-H., Huang, H.-C. \*, **Juan, H.-F.**\* "Exploring dihydroorotate dehydrogenase (DHODH) as a potential neuroblastoma therapeutic target" *Multiomics and Precision Medicine Joint Conference*, Taipei, Taiwan, Nov. 11-12, 2023.
  7. Wang, Y.H., Hsieh, C.-H., Liu, J.-S., Huang, H.-C. \*, **Juan, H.-F.**\* "Revealing the role of long non-coding RNA MCM3AP-AS1 in high-risk neuroblastoma" *Multiomics and Precision Medicine Joint Conference*, Taipei, Taiwan, Nov. 11-12, 2023.
  8. Tseng, T.-Y., Hsu, C.-L. Ou, D.-L. Hsu, C., Huang, H.-C. \*, **Juan, H.-F.**\* "Transcriptional regulation of T cell exhaustion in immune checkpoint blockade resistance at single-cell resolution" *The 82nd Annual Meeting of the Japanese Cancer Association*, Yokohama, Japan. Sep. 21-23, 2023. (**Travel Award**)
  9. Kao, Y.-C., Chang, Y.-W., Lai, C. P., Chang, N.-W., Huang, C.-H., Huang, H.-C. \*, **Juan, H.-F.**\* "Ectopic ATP synthase stimulates the secretion of extracellular vesicles in cancer cells" *The 82nd Annual Meeting of the Japanese Cancer Association*, Yokohama, Japan. Sep. 21-23, 2023. (**Travel Award**)
  10. Kuo, C.-H., Chang, Y.-W., Huang, H.-C. \*, **Juan, H.-F.**\* "Drug repositioning for neuroblastoma therapy via targeting dihydroorotate dehydrogenase in mitochondrial dynamics" *The Joint 11th Asia Oceania Human Proteome Organization (AOHUPO) and 7th Asia Oceania Agricultural Proteomics Organization (AOAPO) Congress*, May 8-10, 2023, Singapore. (**Travel Award**)
  11. Yu, P.-C., Kao, Y.-C., Huang, C.-T., Chang, H.-Y., Huang, C.-H., Huang, H.-C. \*, **Juan, H.-F.**\* "Combined treatment of pyrvinium and sirolimus for targeting non-oncogene dependencies in high-risk neuroblastoma with proteomic analysis" *The Joint 11th Asia Oceania Human Proteome Organization (AOHUPO) and 7th Asia Oceania Agricultural Proteomics Organization (AOAPO) Congress*, May 8-10, 2023, Singapore. (**Travel Award**)
  12. Kuo, C.-H., Chang, Y.-W., Huang, H.-C. \*, **Juan, H.-F.**\* "Drug repositioning for neuroblastoma therapy via targeting dihydroorotate dehydrogenase in mitochondrial dynamics" *37th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 18-19, 2023. (**Best Poster Award**)
  13. Chen, Y.-X., Li, A., Hsieh, C.-H., Chang, Y.-W., Huang, H.-C. \*, **Juan, H.-F.**\* "Drug discovery for high-risk neuroblastoma via targeting tumor heterogeneity at single-cell level" *37th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 18-19, 2023.
  14. Wen, J.-H., Hsieh, C.-Y., Huang, J.-H. \*, Juan, H.-F. \*, **Huang, H.-C.**\* "Gene expression dispersion reflects the disease state from single-cell transcriptomic data" *Multiomics and Precision Medicine Joint Conference*, Taipei, Taiwan, Nov. 19-20, 2022. (**Best Poster Award**)
  15. Sun, Y.-Y., Wang, X.-C., Chang, Y.-W., Hsu, C.-L., Huang, H.-C.\* and **Juan, H.-F.**\* "Single-cell RNA-seq analysis reveals the effect of tunneling nanotubes (TNTs)-mediated transfer under hypoxic stress in neuroblastoma" *Multiomics and Precision Medicine Joint Conference*, Taipei, Taiwan, Nov. 19-20, 2022. (**Best Poster Award**)
  16. Kuo, C.-H., Chang, Y.-W., Huang, H.-C. \*, **Juan, H.-F.**\* "Drug repositioning for neuroblastoma therapy via targeting dihydroorotate dehydrogenase in mitochondrial dynamics" *Multiomics and Precision Medicine Joint Conference*, Taipei, Taiwan, Nov. 19-20, 2022. (**Best Poster**

**Award)**

17. Chang, Y.-W., Wang, X.-C., Sun, Y.-Y., Chang, T.-Y., Huang, H.-C.\* and **Juan, H.-F.\*** "Tunneling nanotube-mediated intercellular transfer rescues neuroblastoma cells from hypoxic stress" *Multimomics and Precision Medicine Joint Conference*, Taipei, Taiwan, Nov. 19-20, 2022. **(1<sup>st</sup> Prize)**
18. Tseng, T.-Y., Hsu, C.-L., Ou, D.-L., Hsu, C., Huang, C.-T., Huang, H.-C.\* and Juan, H.-F.\* "Single-cell multi-omics analysis reveals transcriptional regulatory network of CD8+ T cell exhaustion under anti-PD-1 resistance in hepatocellular carcinoma and predicts potential small molecular drug to avoid T cell dysfunction" *Multimomics and Precision Medicine Joint Conference*, Taipei, Taiwan, Nov. 19-20, 2022. **(Best Poster Award)**
19. Chen, K.-P., Hsu, C.-L., Oyang, Y.-J., Huang, H.-C.\* , **Juan, H.-F.\*** "BIC: a database for the transcriptional landscape of bacteria in cancer" *Multimomics and Precision Medicine Joint Conference*, Taipei, Taiwan, Nov. 19-20, 2022. **(Best Poster Award)**
20. Yu, P-C, Kao, Y-C, Huang, C-T, Chang, H-Y, Huang, C-H, Huang H-C\*, **Juan, H-F\***. "Combination therapy of targeting mTOR signaling pathway and mitochondria respiration for high-risk neuroblastoma" *Multimomics and Precision Medicine Joint Conference*, Taipei, Taiwan, Nov. 19-20, 2022.
21. Hsieh, C.-H., Huang, C.-T., Chang, K.-J., Liu, J.-U., Huang, H.-C.\* and **Juan, H.-F.\*** "Targeting drug-induced transcriptional mechanisms to guide effective cancer therapy" *Multimomics and Precision Medicine Joint Conference*, Taipei, Taiwan, Nov. 19-20, 2022. **(Honorable Award)**
22. Lin-Yan, X.-Q., Chang, Y.-W., Huang, H.-C.\* and **Juan, H.-F.\*** "A mitochondria-plasma membrane fusion machinery regulates mitochondrial ATP synthase translocation to the cell surface" *36th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 26-27, 2022. **(Best Poster Award)**
23. Wang, X.-C., Chang, Y.-W., Chang T.-Y., Sun Y.-Y., Huang, H.-C.\* and **Juan, H.-F.\*** "Tunneling nanotube-mediated intercellular transfer rescues neuroblastoma cells from hypoxic stress" *36th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 26-27, 2022.
24. Chang, K.-J., Huang, C.-T., Hsieh, C.-H., Huang, H.-C.,\* and **Juan, H.-F.\*** "Targeting afatinib-induced transcriptional responses to inform combination therapy for lung cancer" *36th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 25-27, 2022.
25. Liu, J.-Y., Huang, C.-T., Hsieh, C.-H., Huang, H.-C.\* , and **Juan, H.-F.\*** "Investigating neratinib-induced cholesterol biosynthesis as a resistance pathway for combinatorial therapy in breast cancer" *36th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 25-27, 2022.
26. Tu, Y.-H., **Juan, H.-F.\***, Huang, H.-C.\* "Context-dependent gene regulatory network explains regulation dynamics and cell trajectories using unspliced transcripts" *International Symposium on Evolutionary Genomics and Bioinformatics 2022 (ISEGB2022)*, Taipei, Taiwan, March 12-13, 2022. **(Selected oral Presentation)**
27. Tseng, T.-Y., Yu, W.-H., Huang, C.-T., Huang, H.-C.\* , **Juan, H.-F.\*** (2022) "Drug discovery for triple-negative breast cancer by integrative single-cell RNA sequencing and perturbational gene-expression data" *International Symposium on Evolutionary Genomics and Bioinformatics 2022 (ISEGB2022)*, Taipei, Taiwan, March 12-13, 2022. **(Selected oral Presentation)**
28. Ping-Yun Ou, **Juan, H.-F.**, Huang, H.-C., Hsu, C.-L.\* "To investigate the heterogeneity of exhausted T cells across tumor types by integrating single-cell RNA-seq data" *International Symposium on Evolutionary Genomics and Bioinformatics 2022 (ISEGB2022)*, Taipei, Taiwan, March 12-13, 2022. **(Best Poster Award)**
29. Li, A., Chen, J.-Y., Hsu, C.-L., Oyang, Y.-J., Huang, H.-C.\* , **Juan, H.-F.\*** (2022) "Single-cell

- transcriptome reveals a theragnostic signature for post-COVID-19 pulmonary fibrosis" *International Symposium on Evolutionary Genomics and Bioinformatics 2022 (ISEGB2022)*, Taipei, Taiwan, March 12-13, 2022. (**Best Poster Award**)
30. Wen, J.-H., Hsieh, C.-Y., Huang, J.-H., Juan, H.-F.\*, Huang, H.-C.\* "Gene expression dispersion infers COVID-19 severity from single-cell transcriptomic data" *International Symposium on Evolutionary Genomics and Bioinformatics 2022 (ISEGB2022)*, Taipei, Taiwan, March 12-13, 2022. (**Best Poster Award**)
  31. Chen, K.-P., Hsu, C.-L., Huang, H.-C.\* , Juan, H.-F.\* (2022) "The transcriptional landscape of bacteria in cancers" *International Symposium on Evolutionary Genomics and Bioinformatics 2022 (ISEGB2022)*, Taipei, Taiwan, March 12-13, 2022. (**Best Poster Award**)
  32. Yu, W.-H., Oyang, Y.-J., Juan, H.-F.\* Huang, H.-C.\* (2022) "Decoding gene co-expression networks of individual cells from single-cell transcriptome" *International Symposium on Evolutionary Genomics and Bioinformatics 2022 (ISEGB2022)*, Taipei, Taiwan, March 12-13, 2022.
  33. Lin, C.-Y., Juan, H.-F.\*, Huang, H.-C.\* (2022) "Characterization of tumor-associated microbial and transcriptomic signatures in lung adenocarcinoma" *International Symposium on Evolutionary Genomics and Bioinformatics 2022 (ISEGB2022)*, Taipei, Taiwan, March 12-13, 2022.
  34. Chen, K.-Y., Chen K.-P., Huang, H.-C.\* , Juan, H.-F.\* (2022) "Characterization of the microbiome in the lower respiratory tract of critically ill COVID-19 patients with metatranscriptomic and human transcriptomic data" *International Symposium on Evolutionary Genomics and Bioinformatics 2022 (ISEGB2022)*, Taipei, Taiwan, March 12-13, 2022. (**Best Poster Award**)
  35. Chen, J.-Y., Huang, C.-H., Huang, H.-C.\* , Juan, H.-F.\* (2022) "Exploring therapy for COVID-19-related heart complications by integrating network-based drug repurposing and single nucleus RNA sequencing" *International Symposium on Evolutionary Genomics and Bioinformatics 2022 (ISEGB2022)*, Taipei, Taiwan, March 12-13, 2022.
  36. Huang, C.-H.<sup>#</sup>, Yu, P.-C.<sup>#</sup>, Kuo, C.-J., Liang, P.-H., Wang, L.H.-C., Pan, M. Y.-C., Chang, S.-Y. Chao, T.-L., Jeong, S., Fang, J.-T., Huang, H.-C.\* , Juan, H.-F.\* (2022) "Drug repurposing for the identification of compounds with anti-SARS-CoV-2 capability via multiple targets" *International Symposium on Evolutionary Genomics and Bioinformatics 2022 (ISEGB2022)*, Taipei, Taiwan, March 12-13, 2022.
  37. Chang, Y.-W., Wang, C.-C., Yin, C.-F., Wu, C.-H., Huang, H.-C.\* , Juan, H.-F.\* (2021) "Quantitative phosphoproteomics reveals ectopic ATP synthase on mesenchymal stem cells to promote tumor progression via ERK/c-Fos pathway activation" *HUPO ReCONNECT 2021*, online, Nov. 15-19, 2021.
  38. Hsu, C.-L., Yin, C.-F., Chang, Y.-W., Fan, Y.-C., Lin, S.-H., Wu, Y.-C., Huang, H.-C.\* , Juan, H.-F.\* (2021) "LncRNA SNHG1 regulates neuroblastoma cell fate via interactions with HDAC1/2" *The Taiwan Society for Biochemistry and Molecular Biology Autumn Camp*, online, Oct. 16-17, 2021.
  39. Chang, Y.-W., Wang, C.-C, Yin, C.-F., Wu, C.-H., Huang, H.-C.\* , Juan, H.-F.\* (2021) "Quantitative phosphoproteomics reveals ectopic ATP synthase on mesenchymal stem cells to promote tumor progression via ERK/c-Fos pathway activation" *The Taiwan Society for Biochemistry and Molecular Biology Autumn Camp*, online, Oct. 16-17, 2021.
  40. Wang, W.-H., Tsai, S.-Y., Hsieh, C.-H., Cheung, C. H. Y., Huang, H.-C.\* , Juan, H.-F.\* (2021) "Integrative proteomics and phosphoproteomics reveal that mitochondrial division inhibitor 1 enhances serine synthesis and dephosphorylates PSMA3-S250 in neuroblastoma" *10th Asia-Oceania Human Proteome Organization (AOHUPO) Congress*, Busan, Korea, June 30 - July 2, 2021.

41. Chen, K.-P., Hsu, C.-L., Huang, H.-C.\*, Juan, H.-F.\* (2021) "Identification of the cancers-associated microbiome with microRNA-seq" *2021 Annual Conference of Taiwan Microbiota Consortium (2021 ACTMC)*, Taipei, Taiwan, April 24, 2021.
42. Li, A., Yu, W.-H., Hsu, C.-L., Huang, H.-C.\*, Juan, H.-F.\* (2021) "Modular signature of long non-coding RNA association networks as a prognostic biomarker in lung cancer" *The 19th Asia Pacific Bioinformatics Conference (APBC2021)*, Tainan, Taiwan, Feb. 3-5, 2021. (**Oral Presentation**, Proceeding published in *BMC Medical Genomics*).
43. Yu, W.-H., Hsu, C.-L., Lin, C.-C., Oyang, Y.-J., Juan, H.-F.\* and Huang, H.-C.\* (2021) "Stratification of lncRNA modulation networks in breast cancer" *The 19th Asia Pacific Bioinformatics Conference (APBC2021)*, Feb. 3-5, 2021, Tainan, Taiwan (**Oral Presentation**, Proceeding published in *BMC Medical Genomics*).
44. Tu, Y.-H., Juan, H.-F.\*, Huang, H.-C.\*, (2020) "Identification of cell states using super-enhancer RNA" *The 19th International Conference on Bioinformatics (InCoB)*, Virtual, Nov. 25-29, 2020 (**Top 5 Best Presentation Awards**) (Proceeding published in *BMC Genomics*)
45. Chang, Y.-W., Yang, T. T., Chen, M.-C., Liaw, Y-g., Yin, C.-F., Huang, T.-Y., Hou, J.-T., Hung, Y.-H., Hsu, C.-L., Huang, H.-C.\*, Juan, H.-F.\* (2020) "Mitochondrial ATP Synthase Trafficking along Microtubules to the Cell Surface Depends on KIF5B and DRP1" *2020 Annual Meeting of Taiwan Society for Mitochondrial Research and Medicine*, Hualien, Taiwan, Nov. 14-15, 2020. (**Honorable Award**)
46. Hsieh, C.-H., Huang, C.-T., Cheng, Y.-S., Chung, Y.-H., Liu, Y.-L., Hsu, C.-H., Hsu, W.-M., Huang, H.-C.\*, Juan, H.-F.\* (2020) "Identification of a new phosphoglycerate dehydrogenase inhibitor to reprogram serine/glycine metabolism for neuroblastoma therapy" *2020 The Taiwan Society for Biochemistry and Molecular Autumn Camp*, Taina, Taiwan, Oct. 30- Nov. 1, 2020. (**Excellent Poster Award**)
47. Wang, W.-H., Tsai, H.-H., Hsieh, C.-H., Huang, C.-T., Cheung, C. H. Y., Huang, H.-C., Juan, H.-F.\* (2020) "Mitochondrial Division Inhibitor 1 induced serine biosynthesis via regulation of PSMA3-S250 in neuroblastoma" *2020 The Taiwan Society for Biochemistry and Molecular Autumn Camp*, Taina, Taiwan, Oct. 30- Nov. 1, 2020.
48. Chang, H.-C., Huang, H.-C., Juan, H.-F.\*, Hsu, C.-L.\* (2019) "Investigating the role of super-enhancer RNAs underlying embryonic stem cell differentiation" *Joint 30<sup>th</sup> International Conference on Genome Informatics and Australasian Bioinformatics and Computational Biology Society (GIW/ABACBS 2019)*, Sydney, Australia, Dec. 9-11, 2019. (**Oral Presentation**)
49. Cheung, C.H.Y., Hsu, C.-L., Lin, T.-Y., Chen, W.-T., Wang, Y.-C., Huang, H.-C.\*, and Juan, H.-F.\* "Quantitative Proteomics and Phosphoproteomics Analyses Reveal the Regulatory Roles of ZNF322A in lung cancer" *2019 Multiomics and precision medicine joint conference*, Tainan, Taiwan, Dec. 07-08, 2019. (**Young scientist oral presentation competition - 2nd place**)
50. Lee, W.-H., Chen, K.-P., Wang, K., Huang, H.-C.\*, and Juan, H.-F.\* "Characterizing the cancer-associated microbiome with small RNA sequencing data" *2019 Multiomics and precision medicine joint conference*, Tainan, Taiwan, Dec. 07-08, 2019. (**Poster Award**)
51. 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\*. and Juan, H.-F.\* "Quantitative Proteomics of Th-MYCN Transgenic Mice Reveals Aurora Kinase Inhibitor Altered Metabolic Pathways and Enhanced ACADM To Suppress Neuroblastoma Progression" *2019 Multiomics and precision medicine joint conference*, Tainan, Taiwan, Dec. 07-08, 2019. (**Poster Award**)
52. Kao, Y.-C., Chang, N.-W., Lai, C.P., Huang, H.-C.\*, and Juan, H.-F.\* " The role of ectopic ATP synthase in cell-to-cell communication by extracellular vesicles" *2019 The Taiwan*

- Society for Biochemistry and Molecular Autumn Camp*, New Taipei City, Taiwan, Nov. 15-17, 2019.
53. Chang, Y.-W., Hou, J.-T., Liaw, Y.-g., Huang, T.-Y., Chen, M.-C., Yin, C.-F., Hung, Y.-H., Hsu, C.-L., Huang, H.-C.\* and **Juan, H.-F.\*** "Mitochondrial ATP synthase trafficking toward the cell surface depending on KIF5B and Drp1 to serve as a new target for overcoming chemoresistance" *2019 Annual Meeting of Taiwan Society for Mitochondrial Research and Medicine*, Taipei, Taiwan, Nov. 09, 2019. (**Honorable Award**)
  54. Wang, W. H., Hsu, C. L., Huang, H.-C.\* and **Juan, H.-F.\*** "Cyclic stretch-induced biological functions by phosphoproteomics profiling" *2019 Annual Meeting of Taiwan Society for Mitochondrial Research and Medicine*, Taipei, Taiwan, Nov. 09, 2019. (**Honorable Award**)
  55. **Juan, H.-F.\*** and Huang, H.-C.\* "Targeting Trafficking of Mitochondrial Key Energy Protein for Cancer Therapy" *16th conference of The Asian Society for Mitochondrial Research and Medicine (ASMRM2019)*, Fukuoka city, Japan, Oct. 3-5, 2019 (**E-poster**)
  56. Huang, C.-T., Hsieh, C.-H., Lee, W.-C., Liu, Y.-L., Yang, T.-S., Hsu, W.-M., Oyang, Y.-J., Huang, H.-C.\* and **Juan, H.-F.\*** "Therapeutic targeting of non-oncogene dependencies in high-risk neuroblastoma" *The 78th Annual Meeting of the Japanese Cancer Association*, Kyoto, Japan, Sep. 26-28, 2019. (**Travel Grant Award**)
  57. 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.\* and **Juan, H.-F.\*** "Targeting aurora kinases reduces neuroblastoma progression by altering the metabolic pathways via enhancing ACADM" *The 78th Annual Meeting of the Japanese Cancer Association*, Kyoto, Japan, Sep. 26-28, 2019. (**Travel Grant Award**)
  58. Kao, Y.-C., Chang, N.-W., Chang, Y.-W., Lai, C. P., Huang, H.-C. and **Juan, H.-F.\*** "Ectopic ATP synthase induces extracellular vesicle release for cell-to-cell communications" *The 8th Congress of the International Society for Extracellular Vesicles (ISEV2019)*, Kyoto, Japan, April 24-28, 2019.
  59. Wang, C.-C., Chang, Y.-W., Wu, C.-H., Cheung, C. H. Y., Lee, J.-L., Huang, H.-C.\* and **Juan, H.-F.\*** "Mesenchymal stem cells-derived microenvironment promote lung cancer cell progression via c-Fos S374 phosphorylation in MAPK signaling pathway" *34th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 23-24, 2019. (**Best Poster Award**)
  60. Tsai, H.-H., Wang, W.-H., Hou, J.-T., Hsieh, C.-H., Chang, Y.-W., Huang, H.-C.\* and **Juan, H.-F.\*** "Investigation of molecular mechanism in mitochondria fission leading ATP synthase toward cell surface" *34th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 23-24, 2019. (**Best Poster Award**)
  61. Yang, F.-M., Kuo, I.-Y., **Juan, H.-F.**, Wang, Y.-C.\*. "Rab37-mediated IL-6 secretion in the polarization of macrophages" *34th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 23-24, 2019. (**Best Poster Award**).
  62. Lee, W.-H., Chen, K.-P., Huang, H.-C.\* and **Juan, H.-F.\*** "Exploring cancer-associated microbiome characteristics using large-scale patient small RNA sequencing data" *34th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 23-24, 2019.
  63. Chang, N.-W., Kao, Y.-C., Chang, Y.-W., Lai, C. P., Huang, H.-C.\* and **Juan, H.-F.\*** "The function of ectopic ATP synthase in extracellular vesicles under serum deprivation" *34th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 23-24, 2019.
  64. Liaw, Y.-g., Chang, Y.-W., Hung, Y.-H., Huang, H.-C.\* and **Juan, H.-F.\*** "Live-cell imaging of ectopic ATP synthase trafficking" *34th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 23-24, 2019.
  65. Cheung, C. H. Y., Hsu, C.-L., Tsuei, C.-Y., Kuo, T.-T., Huang, C.-T., Wu, H.-Y., Hsu, C.-C., Chung, Y.-H., Huang, H.-C.\* and **Juan, H.-F.\*** "MYCN-mediated purine biosynthesis enhances cancer metabolism via MTHFD2 and PAICS in neuroblastoma" *2018 Taiwan*

- Proteomics Society (TPS) Annual Meeting*, Taichung, Taiwan, Nov. 17, 2018. (**1<sup>st</sup> Prize Poster Award**)
66. Wang, W.-H., Hsu, C.-L., Huang, H.-C.\* and **Juan, H.-F.\*** "Phosphoproteomics reveals cyclic stretch induces microtubule rearrangement, changes cell alignment and disrupts mitochondrial dynamics in lung cells" *2018 The Taiwan Society for Biochemistry and Molecular Autumn Camp*, Chitou, Taiwan, Nov. 9-11, 2018.
  67. Hsieh, C.-H., Huang, C.-T., Chung, Y.-H., Liu, Y.-L., Yang, T.-S., Chien, C. Y., Cho, C.-C., Hsu, C.-H., Hsu, W.-M., Huang, H.-C.\* and **Juan, H.-F.\*** "Targeting a key enzyme in serine/glycine metabolism for neuroblastoma therapy" *2018 The Taiwan Society for Biochemistry and Molecular Autumn Camp*, Chitou, Taiwan, Nov. 9-11, 2018. (**Poster Award**)
  68. Cheung, C. H. Y., Hsu, C.-L., Tsuei, C.-Y., Kuo, T.-T., Huang, C.-T., Wu, H.-Y., Hsu, C.-C., Chung, Y.-H., Huang, H.-C.\* and **Juan, H.-F.\*** "MYCN-mediated purine biosynthesis enhances cancer metabolism via MTHFD2 and PAICS in neuroblastoma" *The 77th Annual Meeting of the Japanese Cancer Association*, Osaka, Japan, Sep. 27-29, 2018. (**Travel Grant Award**)
  69. Chang, Y.-W., Hsu, C.-L., Chen, X.-J., Huang, H.-C.\* and **Juan, H.-F.\*** "Ectopic ATP synthase blockade overcomes gefitinib-resistance via CK2 $\alpha$ /TOP2A/GAS5 axis" *The 77th Annual Meeting of the Japanese Cancer Association*, Osaka, Japan, Sep. 27-29, 2018. (**Travel Grant Award**)
  70. Chang, Y.-W., Hou, J.-T., Chen, M.-C., Huang, T.-Y., Tsai, H.-H., Hsu, C.-L., Huang, H.-C.\* and **Juan, H.-F.\*** "Proteomics reveals the trafficking pathway of mitochondrial ATP synthase to cancer cell surface" *Cascadia Proteomics Symposium*, Seattle, USA, July 23-24, 2018.
  71. Hsieh, C.-H., Huang, C.-T., Chung, Y.-H., Liu, Y.-L., Yang, T.-S., Chien, C. Y., Cho, C.-C., Hsu, C.-H., Hsu, W.-M., Huang, H.-C.\* and **Juan, H.-F.\*** "Targeting a key enzyme in serine/glycine metabolism for neuroblastoma therapy" *Advances in Neuroblastoma Research 2018 (ANR2018)*, San Francisco, USA, May 9-12, 2018. (**Travel Award**)
  72. Tang, C.-W., Chang, Y.-W., Hsu, C.-L., Ye, S.-P., Huang, H.-C.\* and **Juan, H.-F.\*** "Targeting the E2F1/GAS5/p53 axis as a potential therapeutic strategy for drug-resistant lung cancer" *33th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 24-25, 2018. (**Best Poster Award**)
  73. Cheung, H. Y. C., Hsu, C.-L., Tsuei, C.-Y., Kuo, T.-T., Huang, C.-T., Huang, H.-C.\* and **Juan, H.-F.\*** "MYCN mediates metabolic enzymes MTHFD2 and PAICS during neuroblastoma cell progression" *33th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 24-25, 2018. (**Poster Award**)
  74. Lee, W.-C., Hsieh, C.-H., Huang, C.-T., Liu, Y.-L., Yang, T.-S., Hsu, W.-M., Huang, H.-C.\* and **Juan, H.-F.\*** "A gene expression-based strategy identifies the anthelmintic drug niclosamide for high-risk neuroblastoma therapy" *33th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 24-25, 2018. (**Poster Award**)
  75. Kao, Y.-C., Chang, Y.-W., Lai, C. P., Huang, H.-C.\* and **Juan, H.-F.\*** "Ectopic ATP synthase on extracellular vesicles" *33th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 24-25, 2018. (**Poster Award**)
  76. Hou, J.-T., Huang, T.-Y., Chen, M.-C., Chang, Y.-W., H.-H., Tsai, Huang, H.-C.\* and **Juan, H.-F.\*** "Trafficking of ectopic ATP synthase" *33th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 24-25, 2018.
  77. Lin, S.-H., Yang, T.-W., Sahu, D., Huang, H.-C.\* and **Juan, H.-F.\*** "Long Non-coding RNA SNHG1 in the regulation of neuroblastoma tumorigenesis" *33th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 24-25, 2018.
  78. Cheng, P.-Y., Hsu, C.-L., Chen, K.-P., **Juan, H.-F.\*** and Huang, H.-C.\* "Web-based

- visualization system for individual gene variants and their associated diseases" *33th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 24-25, 2018.
79. Yin, C.-F., Kao, S.-C., Hsu, C.-L., Huang, H.-C.\* , **Juan, H.-F.\*** "Multi-omics analysis reveals dynamic heat shock protein 27 phosphorylation in tanshinone IIA-induced cell death" *2017 TPS Annual Meeting*, Taipei, Taiwan, Nov. 25, 2017. (**Best Poster Award**)
  80. Chang, Y.-W., Wu, C.-H., Cheung, H. Y. C., Wang, C.-C., Lee, J.-L., Huang, H.-C.\* , **Juan, H.-F.\*** "Integrative transcriptomics and phosphoproteomics analyses reveal the role of mesenchymal stem cell in tumor microenvironment" *2017 TPS Annual Meeting*, Taipei, Taiwan, Nov. 25, 2017.
  81. Chang, Y.-W., Hsu, C.-L., Chen, X.-J., Huang, H.-C.\* , **Juan, H.-F.\*** "ATP synthase blockade overcomes gefitinib-resistance though TOP2a/GAS5/p53 axis in lung cancer cells" *2017 The Taiwan Society for Biochemistry and Molecular Autumn Camp*, Kaohsiung, Taiwan, Nov. 17-19, 2017. (**Best Poster Award**)
  82. Cheung, H. Y. C., Hsu, C.-L., Chen, K.-P., Chong, S.-T., Huang, H.-C.\* , **Juan, H.-F.\*** "MCM2-regulated functional networks in lung cancer by multi-dimensional proteomic approach" *2017 The Taiwan Society for Biochemistry and Molecular Autumn Camp*, Kaohsiung, Taiwan, Nov. 17-19, 2017.
  83. Yin, C.-F., Kao, S.-C., Hsu, C.-L., Huang, H.-C.\* , **Juan, H.-F.\*** "Multilayer omics identify phosphorylation of heat shock protein 27 at serine 82 is crucial for tanshinone IIA-induced cell death" *2017 The Taiwan Society for Biochemistry and Molecular Autumn Camp*, Kaohsiung, Taiwan, Nov. 17-19, 2017.
  84. Sahu, D., Ho, S.-Y., **Juan, H.-F.\***, Huang, H.-C.\* "High-risk, expression-based prognostic long noncoding RNA signatures in neuroblastoma" *The 3rd Asia-Pacific Neuroblastoma Symposium (APSN2017)*, Oct. 6, 2017, Tokyo, Japan.
  85. Huang, C.-T., Hsieh, C.-H., Chung, Y.-H., Oyang, Y.-J., Huang, H.-C.\* , **Juan, H.-F.\*** "Combinatorial therapeutic discovery using recurrent perturbation-gene relationships" *The 76th Annual Meeting of the Japanese Cancer Association*, Yokohama, Japan, Sep. 28-30, 2017. (**Travel Grant Award**)
  86. Hsieh, C.-H., Huang, C.-T., Cho, C.-C., Chien, C.-Y., Hsu, C.-H., Huang, H.-C.\* , **Juan, H.-F.\*** "Reprogramming serine metabolism by a new phosphoglycerate dehydrogenase inhibitor for neuroblastoma therapy" *The 76th Annual Meeting of the Japanese Cancer Association*, Yokohama, Japan, Sep. 28-30, 2017. (**Travel Grant Award**)
  87. Yu, W.-H., **Juan, H.-F.**, Huang, H.-C.\* "Stratification of lncRNA modulation networks in cancer" *The 76th Annual Meeting of the Japanese Cancer Association*, Yokohama, Japan, Sep. 28-30, 2017.
  88. Cheung, H. Y. C., Hsu, C.-L., Chen, K.-P., Chong, S.-T., Huang, H.-C., **Juan, H.-F.\*** "Integrative phosphoproteome and proteome reveal key protein phosphorylation by MCM2 in lung cancer" *Cascadia Proteomics Symposium*, Seattle, USA, July 17-18, 2017. (**3<sup>rd</sup> Prize**)
  89. Lin, M.-C., **Juan, H.-F.**, Lou P.-J., and Huang, M.-C.\* "C1GALT1 promotes EGFR activity and is a potential therapeutic target for head and neck squamous cell carcinoma" *AMP Global Congress on Molecular Pathology*, April 3-5, 2017 in Berlin, Germany (**Global Young Investigation Poster Award**)
  90. Chung, Y.-H., Hsieh, C.-H., Huang, C.-T., Liu, Y.-L.\* , Yang, T.-S., Cheung, H.-Y., Hsu, W.-M.\* , Huang, H.-C.\* and **Juan, H.-F.\*** "A combination therapy for high-risk neuroblastoma" *32th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 25-26, 2017. (**Poster Award**)
  91. Huang, T.-Y., Chen, M.-C., Hung, Y.-H., Huang, H.-C.\* and **Juan, H.-F.\*** "The role of microtubules in the trafficking of ectopic ATP synthase" *32th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 25-26, 2017. (**Poster Award**)

92. Hung, Y.-H., Chen, M.-C., Huang, T.-Y., Huang, H.-C.\* and **Juan, H.-F.\*** "Trafficking of ATP synthase to cell surface: mitophagy-dependent or independent?" *32nd Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 25-26, 2017.
93. Chen, M.-C., Huang, T.-Y., Cheng, C.-Y., Hung, Y.-H., Huang, H.-C.\* and **Juan, H.-F.\*** "Trafficking of Ectopic ATP Synthase via Mitochondrial Dynamics" *32th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 25-26, 2017.
94. Yang, T.-Z., Divya Sahu, Huang, H.-C.\* and **Juan, H.-F.\*** "The role of long non-coding RNA *SNHG1* in neuroblastoma" *32th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 25-26, 2017.
95. Wu, C.-H., Cheung, C. H. Y., Chang, Y.-W., Lee, J.-L., Huang, H.-C.\* and **Juan, H.-F.\*** "Phosphoproteomics reveals key phospho-signalings in lung cancer stem cell properties" *32nd Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 25-26, 2017.
96. Cheung, H. Y. C., Hsu, C.-L., Chen, K.-P., Chong, S.-T., Huang, H.-C., **Juan, H.-F.\*** "DNA replication licensing factor MCM2 promotes lung cancer cell proliferation through regulation of HMGA1 phosphorylation" *The 75th Annual Meeting of the Japanese Cancer Association*, Yokohama, Japan, October 6-8, 2016. (**Travel Grant Award**)
97. Hsu, C.-L., Chen, Y.-P., Huang, H.-C., **Juan, H.-F.\*** "Computational methods for identification of lncRNAs interacting with MYCN in neuroblastoma" *The 75th Annual Meeting of the Japanese Cancer Association*, Yokohama, Japan, October 6-8, 2016. (**Travel Grant Award**)
98. Hsu, C.-L., Wang, J.-K., Lu, P.-C., Huang, H.-C., **Juan, H.-F.\*** "DynaPho: a web tool for inferring the signaling dynamics from time-series phosphoproteomics data" *15th Human Proteome Organization World Congress (HUPO 2016)*, Taipei, Taiwan, September 18-22, 2016.
99. Cheung, C. H. Y., Hsu, C.-L., Chen, K.-P., Chong, S.-T., Huang, H.-C., **Juan, H.-F.\*** "Integrated analysis of phosphoproteome and global proteome reveals key protein phosphorylation by MCM2 in lung cancer cells" *15th Human Proteome Organization World Congress (HUPO 2016)*, Taipei, Taiwan, September 18-22, 2016.
100. Hsieh, C.-H.<sup>#</sup>, Hou, C.-L.<sup>#</sup>, 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.\*** "Pharmacoproteomics 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.
101. Wang, W.-H., Hsu, C.-L., Huang, H.-C., and **Juan, H.-F.\*** "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.
102. Hou, C.-L.<sup>#</sup>, Hsieh, C.-H.<sup>#</sup>, 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. (<sup>#</sup>equal contribution) (**Poster Award**)
103. Wang, W.-H., Huang, H.-C., and **Juan, H.-F.\*** "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**)
104. Hsieh, C.-H., Hou, C.-L., Huang, C.-T., Hsu, W.-M., Huang, H.-C., and **Juan, H.-F.\*** "The role of PHGDH in high-risk neuroblastoma" *31th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 26-27, 2016.
105. 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.
106. Chen, X.-J., Chang, H.-Y., Huang, H.-C., and **Juan, H.-F.\*** "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.
  107. Lin, T.-Y., Chen, W.-T., Lin, L.-L., Huang, H.-C., and **Juan, H.-F.\*** "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 1<sup>st</sup> Prize**)
  108. 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 3<sup>rd</sup> Prize**)
  109. 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**)
  110. Hsu, C.-L., Chang, H.-Y., Chang, J.-Y., Huang, H.-C.\* , and **Juan, H.-F.\*** "Unveiling MYCN regulatory network in neuroblastoma by integrative analysis of heterogeneous genomics data" 2015 Asia-Pacific Symposium of Neuroblastoma, Taipei, Taiwan, November 14, 2015. (**Best Poster Award**)
  111. 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**)
  112. 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.
  113. Yin, C.-F., Kao, S.-C., Lin, L.-L., Huang, H.-C.\* , and **Juan, H.-F.\*** "Phosphoproteome dynamics unveil key response signaling in Tanshinone IIA-treated gastric cancer cells" 2015 TPS Annual Meeting, Taoyuan, Taiwan, November 13-14, 2015.
  114. Cheung, H. Y. C., Chong, S.-T., Chen, K.-P., Huang, H.-C.\* , and **Juan, H.-F.\*** "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**)
  115. 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**)
  116. Cheung, H. Y. C., Chong, S.-T., Chen, K.-P., Huang, H.-C.\* , and **Juan, H.-F.\*** "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.
  117. Yin, C.-F., Kao, S.-C., Lin, L.-L., Huang, H.-C.\* , and **Juan, H.-F.\*** "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.
  118. Huang, C.-T., Oyang, Y.-J., Huang, H.-C.\* and **Juan, H.-F.\*** "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)**

119. 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 **Juan, H.-F.\*** "Integrative omics analysis reveals the importance of one-carbon metabolism in neuroblastoma progression" *The 20th Biophysics Conference*, Taipei, Taiwan, May 11-13, 2015.
120. Kao, S.-C., Hu, C.-W., Lin, L.-L., Huang, H.-C.\* and **Juan, H.-F.\*** "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)**
121. Kuo, T.-T., Tsuei, C.-Y., Huang, C.-T., Hsu, C.-L., Chang, H.-Y., Huang, H.-C.\* and **Juan, H.-F.\*** "The role of MTHFD2 in neuroblastoma progression" *30th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 21-22, 2015. **(Poster Award)**
122. Wei-Ting Chen, Hu, C.-W., Lin, L.-L., Hsu, C.-L., Huang, H.-C.\* and **Juan, H.-F.\*** "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)**
123. Jen, J., Liao, S.-Y., Chen, H.-T., Lo, F.-Y., Su, W.-C., Salgia, R., **Juan, H.-F.**, 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)**
124. 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 1<sup>st</sup> Prize Award)**
125. Chong, S.-T., Hu, C.-W., Lin, L.-L., Huang, H.-C.\* and **Juan, H.-F.\*** "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.
126. Tsuei, C.-Y., Kuo, T.-T., Hsu, C.-L., Huang, C.-T., Chang, H.-Y., Chang, J.-Y., Huang, H.-C.\* and **Juan, H.-F.\*** "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.
127. 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., **Juan, H.-F.**, 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. **(2<sup>nd</sup> Prize Award of Chien-Tien Hsu Foundation)**
128. Liao, S.-Y., 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" *The Twenty-second Symposium on Recent Advances in Cellular and Molecular Biology*, Kenting, Taiwan, Feb. 4-6, 2015.
129. 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)**
130. 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)**
131. Lu, P.-C., Hsu, C.-L., Wu, C.-H., **Juan, H.-F.\*** and Huang, H.-C.\* "Lncin: Identifying lncRNA-modulated protein-protein interaction networks" *TPS2014 Translational and Systems*

- Biology Symposium*, Taipei, Taiwan, November 11-12, 2014. **(Poster Award)**
132. Chen, W.-T., Hu, C.-W., Lin, L.-L., Huang, H.-C.\* and Juan, H.-F.\* "Quantitative phosphoproteome analysis of ZNF322A in human lung adenocarcinoma A549 cells" *TPS2014 Translational and Systems Biology Symposium*, Taipei, Taiwan, November 11-12, 2014.
  133. Wang, J.-K., Hsu, C.-L., Huang, H.-C.\* and Juan, H.-F.\* "DynaPho: inferring signaling dynamics from phosphoproteomics data" *TPS2014 Translational and Systems Biology Symposium*, Taipei, Taiwan, November 11-12, 2014. **(Poster Award)**
  134. Chen, K.-P., Hsu, C.-L., Oyang, Y.-J., Huang, H.-C.\* and Juan, H.-F.\* "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.
  135. Kao, S.-C., Hu, C.-W., Lin, L.-L., Huang, H.-C.\* and Juan, H.-F.\* "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.
  136. Chong, S.-T., Hu, C.-W., Lin, L.-L., Huang, H.-C.\* and Juan, H.-F.\* "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.
  137. 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.
  138. 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)**
  139. 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)**
  140. Hsu, C.-L., Chang, H.-Y., Chang, J.-Y., Huang, H.-C.\* , and Juan, H.-F.\* (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)**
  141. Hu, C.-W., Hsu, C.-L., Wang, Y.-C., Ishihama, Y., Ku, W.-C., Huang, H.-C.\* , and Juan, H.-F.\* (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)**
  142. Chen, C.-Y., Ho, A., Huang, H.-Y., Juan, H.-F.\* , 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)**
  143. Huang, H.-C.\* , Hsu, C.-L., Chang, H.-Y., Chang, J.-Y., Hsu, W.-M., and Juan, H.-F.\* (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.
  144. Hu, C.-W., Hsu, C.-L., Wang, Y.-C., Ishihama, Y., Ku, W.-C., Huang, H.-C.\* , and Juan, H.-F.\* (2014) "Temporal phosphoproteome dynamics reveal response pathways of ectopic ATP synthase blockade" *The 19th Biophysics Conference*, Tainan, Taiwan, May 7-10. **(Poster Award)**

### **Award)**

145. Li, M.-H., Chang, S.-Y., Huang, T.-C., Tsai, S.-R., Lee, S.-C., Huang, H.-C., and **Juan, H.-F.\*** (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.
146. 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.
147. Huang, C.-J., Yang, G.-C., Lin, C.-C., **Juan, H.-F.**, and Huang, H.-C.\* (2013) "Identification of MicroRNA and transcription factor co-regulatory modules in primary breast cancer" *11<sup>th</sup> Symposium on Bioinformatics and Systems Biology in Taiwan (BIT2013)*, Taipei, Taiwan, October 18-21, 2013. (**Honorable Mention**)
148. 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" *The 12th Human Proteome Organisation World Congress (HUPO 2013)*, Yokohama, Japan, September 14-18.
149. 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 *Rhodospseudomonas 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**)
150. Hsu, C.-L., Chang, H.-Y., Chang, J.-Y., Huang, H.-C., and **Juan, H.-F.\*** (2013) "Identification of miRNA-mediated feed-forward loops involving mycn as master regulator in neuroblastoma" *The 7th Asia Young Researchers Conference on Computational and Omics Biology (AYRCOB 2013)*, Tokyo, Japan, September 9-10. (**Travel Award**)
151. 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, Denmark, August 30-September 3.
152. Hu, C.-W., Hsu, C.-L., Tsai, H.-T., Chen, C.-S., Huang, H.-C. and **Juan, H.-F.\*** (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, Denmark, August 30-September 3.
153. 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 18th Biophysics Conference*, Taipei, Taiwan, June 27-29. (**1<sup>st</sup> prize**)
154. Hsu, C.-L., Chang, H.-Y., Chang J.-Y., Huang, H.-C. and **Juan, H.-F.\*** (2013) "Identification of miRNA-mediated feed-forward loops involving mycn as master regulator in neuroblastoma" *The 18th Biophysics Conference*, Taipei, Taiwan, June 27-29. (**2<sup>nd</sup> prize**)
155. Hsia, C.-R., Lin, L.-L. Huang, H.-C., **Juan, H.-F.\*** (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. (**3<sup>rd</sup> prize**)
156. Chang, H.-Y., Huang, H.-C., Huang, T.-C., Yang, P.-C.\*, Wang, Y.-C.\*, and **Juan, H.-F.\*** (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. (**3<sup>rd</sup> prize**)
157. 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.
158. Hsu, K.-H., Chen, S.-K., Tseng, C.-W., Huang, H.-C., **Juan, H.-F.**\* (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**)
159. Hsia, C.-R., Lin, L.-L. Huang, H.-C., **Juan, H.-F.**\* (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.
160. 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**)
161. 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.\* (2012) "Phosphoproteomic analysis of *Rhodospseudomonas palustris* reveals the role of pyruvate phosphate dikinase phosphorylation in lipid production" *The 6<sup>th</sup> IECA on Synthetic Biology with Application to Biotechnology*, Taipei, Taiwan, Dec. 10-12, 2012. (**Selected Oral Presentation**)
162. 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**)
163. 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**)
164. **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.
165. 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.
166. Ko, S.-Y., Hu, C.-W., Huang, H.-C., **Juan, H.-F.**\* (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.
167. 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# P6-017) *The 17th Biophysics Conference*, Taipei, Taiwan, May 23-25.
168. Tsai, H.-T., Chang, H.-Y., Chen, C.-S., Hsu, C.-H., Huang, H.-C., **Juan, H.-F.**\* (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.

169. Ko, S.-Y., Hu, C.-W., Huang, H.-C., **Juan, H.-F.\*** (2012) "Brassinosteroid-regulated phosphoproteome in *Arabidopsis thaliana*" (Abstract#P919) *The 27th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 17-18.
170. 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.
171. 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**)
172. 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, October 3-5, 2011.
173. 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**)
174. Lin, C.-C., **Juan, H.-F.**, 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**)
175. 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**)
176. Wang, H.-K., Takeuchi, R., Nakayashiki, T., Mori, H., Huang, H.-C., **Juan, H.-F.\*** (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 3<sup>rd</sup> prize**)
177. Wu, Y.-H., Hu, C.-W., Chang, H.-Y., Huang, H.-C., **Juan, H.-F.\*** (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**)
178. 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 14-3-3 $\beta$  in gastric cancer" *2011 Translational Medicine Conference and Taiwan Proteomics Society Annual Symposium*, Taipei, Taiwan, April 27-28. (**Poster Award**)
179. 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**)
180. 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.
181. 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.

182. 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.
183. 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.
184. 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.
185. 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)**
186. 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)**
187. 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)**
188. 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)**
189. 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.
190. Lin, M.-H., Yi, T.-H., Huang, H.-C., Wu, S.-H., **Juan, H.-F.\*** (2010) "Phosphoproteome of *Rhodospseudomonas palustris* indicates threonine phosphorylation of pyruvate phosphate dikinase affecting the biofuel production and carbon fixation" (Abstract#P8) *The Taiwan Society for Biochemistry and Molecular Biology: Beigang Autumn Camp*, Nantou, Taiwan, November 11-13.
191. Hu, C.-W., Chang, Y.-L., Huang, H.-C., Chen, H.-C., K.-Huang, L-L, J. C. Liao, **Juan, H.-F.\*** (2010) "A proteomic study of growth enhancement by Calvin-Benson-Bassham cycle proteins and chaperonin GroEL gene over-expression in *Rhodospseudomonas palustris*" (Abstract#P7) *The Taiwan Society for Biochemistry and Molecular Biology: Beigang Autumn Camp*, Nantou, Taiwan, November 11-13.
192. 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.
193. 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". *Advances in Neuroblastoma Research*, Stockholm, Sweden, June 21-24. **(Poster Competition Award)**

194. 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.
195. 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.
196. 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.
197. 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.
198. 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 15<sup>th</sup> Joint Biophysics Conference*, Taipei, Taiwan, May 19-21. (**Poster Competition Award**)
199. 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) *25th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 27-28. (**Poster Award**)
200. 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.
201. 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.
202. 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.
203. 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.
204. 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.
205. 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.
206. 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) *2009 TPS International Proteomics Conference and 5<sup>th</sup> AOHUPO MPI Workshop*, Taipei, Taiwan, June 19-20. (**Selected Oral Presentation**)
207. 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 5<sup>th</sup> AOHUPO MPI Workshop*, Taipei, Taiwan, June 19-20. (**Poster Award**)
208. 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.
209. 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.
210. 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) *24th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 21-22. (**Oral Presentation**)
211. 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**)
212. 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**)
213. Chen, C.-Y., **Juan, H.-F.\***, 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**)
214. 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) *24th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 21-22. (**Oral Presentation**)
215. 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.
216. 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*" (Poster 7) *4th International Symposium of the Kanagawa University-National Taiwan University Exchange Program 2008*, Taipei, Taiwan, Dec. 27, 2008. (**Short Talk 4**)
217. 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.
218. 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. (**1<sup>st</sup> Prize**)
219. 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. (**3<sup>rd</sup> Prize**)
220. 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**)

221. 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) *20<sup>th</sup> Federation of Asian and Oceanian Biochemists and Molecular Biologists (FAOBMB) symposium*, Taipei, Taiwan, Oct. 23-25.
222. Chang, H.-Y., Huang, H.-C., Huang, T.-C., H. Mori, **Juan, H.-F.\*** (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**)
223. 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.
224. 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**)
225. 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.
226. 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.
227. 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.
228. 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.
229. **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.
230. 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.
231. Lee, T.-A., **Juan, H.-F.\*** (2008) "Identification of human novel miRNAs and their targets" (Abstract#O115) *23th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 29-30. (**Oral Presentation**)
232. 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) *23th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 29-30. (**Oral Presentation**)

233. 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) *23th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 29-30. (**Oral Presentation**)
234. 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**)
235. 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.
236. 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.
237. 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.
238. 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**)
239. 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**)
240. 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.
241. 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**)
242. 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.
243. 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**)
244. 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.
245. 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.
246. 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.
247. 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.
  248. 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.
  249. 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.
  250. 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.
  251. 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.
  252. Chen, C.-P., Huang, H.-C., Chen, H.-W., **Juan, H.-F.\*** (2007) "Identification of differentiation 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.
  253. 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.
  254. 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.
  255. 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.
  256. **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.
  257. 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.
  258. 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.
  259. 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.
  260. 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.

261. 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.
262. **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.
263. 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**)
264. 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**)
265. 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)
266. 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)
267. 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)
268. 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.
269. 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.
270. 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**)
271. 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) *20th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 26-27. (**Oral Presentation**)
272. 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**)
273. 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**)

274. 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) *20th Joint Annual Conference of Biomedical Sciences*, Taipei, Taiwan, March 26-27. (**Best Poster Paper**)
275. 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. (**2<sup>nd</sup> Prize**)
276. 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.
277. **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**)
278. 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.
279. 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.
280. 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.
281. 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.
282. 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) *3<sup>rd</sup> International Proteomics Conference 2004 (IPC'03)*, Taipei, Taiwan, May 15-17. (**Top 10 Prize**)
283. 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.
284. 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.
285. **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.
286. 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.
287. 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.
288. 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> Joint Conference on Information Sciences*, North Carolina, USA, 962-966.
289. **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.
290. 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.
291. **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.
292. **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.
293. 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 sialyltransferase" 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.
3. **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:

1. "Intercellular crosstalk by ectopic ATP synthase", Kyoto University, Kyoto, Japan, March 5, 2024.
2. "Intercellular crosstalk by ectopic ATP synthase" 2023 NTU-UTokyo Joint Conference, Taipei, Taiwan, Dec. 8, 2023
3. "Systems biology-based drug repositioning" Doctoral Program in Tissue Engineering and Regenerative Medicine, National Chung Hsing University, Nov. 02, 2023.
4. "Intercellular crosstalk by ectopic ATP synthase" 2023 Taiwan-Japan Bilateral Meeting on RNA and Biofunctions, National Taiwan University, Oct. 27-29, 2023.
5. "Systems biology-based drug repositioning" Tokyo University, Oct. 23, 2023.
6. "Systems biology-based drug repositioning" Osaka University, July 7, 2023.
7. "Network-based multiomics for target and drug discovery", Joint 11th Asia Oceania Human Proteome Organization (AOHUPO) and 7th Asia Oceania Agricultural Proteomics Organization (AOAPO) Congress, Singapore, May 8-10, 2023.
8. "我的科學家之路", 國家衛生研究院分子與基因醫學研究所, Chu-Nan, March 13, 2023.
9. "理工女孩站出來: 女科學家的理工生命故事分享", 台大杜鵑花節, Taipei, March 11, 2023.

10. "Transcriptional landscape of bacteria in cancer" 2023 Asia Microbiome Conference, Taipei, Jan. 7, 2023.
11. "大數據分析探索 COVID-19 老藥新用"台灣微生物學會, Taipei, Dec. 3, 2022.
12. "A Journey from Biochemist to Systems Biologist" 台灣生物化學及分子生物學學會 2022 北埔秋令營, Hsin-Chu, Nov. 05, 2022.
13. "*In silico* methods for drug discovery" 2022 台灣替代方法研討會, Taipei, Sep. 15, 2022.
14. "Mining big data for drug repositioning" 衛生福利部 111 年度補(捐)助計畫—精準醫療人才培訓暨大數據品質研究系列課程 第十二場次：生物資訊在精準醫療之應用, Taipei, Aug. 26, 2022.
15. "Biomedical Applications of Systems Biology" 2022 Symposium of Taiwan DOHaD (Developmental Origins of Health and Disease), Taipei, Aug. 20, 2022.
16. "Systems biology-based drug repositioning" Kyoto University's Medical Innovation Graduate Program (MIP), Kyoto University, May 13, 2022.
17. "期刊投稿經驗甘苦談" (The experience for journal paper submission), Life Science College, National Taiwan University, March 16, 2022.
18. "Biological network analysis (II) — Biomedical applications" NCTS complex systems winter school, Hsinchu, Taiwan, Feb. 11, 2022.
19. "Single-cell-based immune signature and drug discovery" National Health Research Institutes, Miaoli County, Taiwan, Jan. 10, 2022.
20. "Bioinformatics for drug discovery of COVID-19 and cancer" 2021 Annual Meeting of Taiwanese Society of Biomedical Engineering (TSBME 2021)-Annual Report of Ministry of Science and Technology, Taiwan & The 3rd International Symposium on Engineering and Technology (ISET 2021), Nov. 19-20, 2021
21. "Mining big data for drug repositioning" UT-NTU DDP Kick-off Online Symposium, Sep. 1-2, 2021.
22. "基因序列比對", "蛋白分子模擬" and "疾病標記探索" in 中學教師生命科學研習營, National Yang Ming Chiao Tung University, Aug. 25-27, 2021.
23. "Mining big data for drug repositioning" in the Lecture From Gene Regulatory Networks, Systems Biology to Systems Medicine, National Tsing Hua University, May 26, 2021.
24. "AI for drug repositioning: quantitative analysis of omics data" Department of Entomology, National Taiwan University, May 25, 2021.
25. "Mining big data for drug repositioning" National Health Research Institutes, April 26, 2021.
26. "Multi-omics for cancer therapy" National Tsing Hua University, April 22, 2021.
27. "Drug repositioning for COVID-19" AI-Driven Drug Re-positioning Webinar, Jan. 25, 2021.
28. "Drug repositioning for COVID-19" The 5th NTU-KU Joint Symposium on Digital Health 2020, Taipei, Taiwan, Dec. 16, 2020.
29. "研究的發想和實現" 國家衛生研究院高中生小論文&科展研究研習營, Miaoli, Taiwan, Dec. 10, 2020.
30. "Characterizing the cancer-associated microbiome with small RNA sequencing data" 臺澳生醫產業交流會議-微菌叢精準醫療技術之最新發展, Taipei, Taiwan, Dec. 05, 2020
31. "Multi-omics for neuroblastoma drug discovery" Virtual The 9th Cross Straits Children Oncology Meeting & The 3rd Asian Neuroblastoma Meeting, Nov. 28, 2020.
32. "AI for drug repositioning" Multiomics and Precision Medicine Joint Conference, Taoyuan, Taiwan, Nov. 14-15, 2020.
33. "Integrative multi-omics analyses for neuroblastoma research" 2020 Neuroblastoma Group Meeting, Taipei, Taiwan, Nov. 13, 2020.
34. "Drug repositioning for COVID-19" 2020 The Taiwan Society for Biochemistry and Molecular Autumn Camp, Taina, Taiwan, Oct 30-Nov. 2, 2020.
35. "作夢也在研究發想" 學術力提升-跨領域研究系列演講, Taipei, Taiwan, Oct. 12, 2020.



36. "Drug repositioning for COVID-19" International Symposium on COVID-19, Taipei, Taiwan, Oct 5-6, 2020.
37. "Multiomics reveals a lncRNA-mediated phospho-signaling network" The 17th Taiwan Society for Mass Spectrometry Annual Conference, Chia-Yi, Sep. 1-3, 2020.
38. "Mining big data for drug repositioning" National Taiwan University Developmental Biology and Regenerative Medicine, Taipei, Taiwan, June 5, 2020.
39. "Multi-omics for cancer therapy" Institute of Atomic and Molecular Sciences, Academia Sinica, Taipei, Taiwan, June 4, 2020.
40. "Multi-omics for target and drug discovery" Poly-omics & Precision Medicine Research Group, National Taiwan University, Taipei, Taiwan, June 3, 2020.
41. "Mining non-oncogene addiction for cancer therapy" National Defense University, Taipei, Taiwan, Jan. 10, 2020.
42. "Mining multi-omics big data for precision biomarker and drug discovery" AI Labs, Taipei, Taiwan, Jan. 09, 2020.
43. "Characterizing the cancer-associated microbiome with small RNA sequencing data" Asia Microbiome Conference, Taipei, Taiwan, Jan. 3-4, 2020.
44. "Mining multi-omics data for cancer therapy" 2019 Multiomics and Precision Medicine Joint Conference, Tainan, Taiwan. Dec. 7-8, 2019.
45. "Imaging mitochondria dynamics" Taiwan International Graduate Program (TIGP)-Bioinformatics Program, Taipei, Taiwan, Nov. 21, 2019.
46. "Mining non-oncogene addiction for cancer therapy" The 20th International Conference on Systems Biology (ICSB2019), Okinawa, Japan. Nov. 1-5, 2019.
47. "Mining big data for drug repositioning" Department of Pharmacy, National Taiwan University, Taipei, Taiwan, Oct. 28, 2019.
48. "Mining big data for drug repositioning" Taipei Medical University, Taipei, Taiwan, Sep. 19, 2019.
49. "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.
50. "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.
51. "Mining non-oncogene addiction for cancer therapy" Taiwan International Graduate Program (TIGP)-Bioinformatics Program, Taipei, Taiwan, May 14, 2019.
52. "Proteomics reveals the trafficking pathway of mitochondrial ATP synthase to cancer cell surface" Cascadia Proteomics Symposium, Seattle, USA, July 23-24, 2018.
53. "Systems biology for target and drug discovery" Department of Mechanical Engineering, The University of British Columbia, Vancouver, Canada, May 1<sup>st</sup>, 2018.
54. "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.
55. "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 2<sup>nd</sup>, 2018.
56. "Applications of AI in biomarker and drug development" AI Meetup, Taipei, Taiwan, December 18, 2017.
57. "Network biology in proteomics" 2017 Annual Conference of Taiwan Proteome Society, Taipei, Taiwan, November 25, 2017.
58. "A long noncoding RNA as a novel predictor" International Conference of Precision Medicine, Taipei, Taiwan, November 24, 2017.
59. "Brassinosteroid-regulated phosphorylation dynamics in Arabidopsis" Taiwan-Japan 2017

- Plant Biology, Taipei, Taiwan, November 3-6, 2017.
60. "Systems biology data science for target and drug discovery" The International Conference on Genomics (ICG), Shen Zhen, China, Oct. 26-29, 2017.
  61. "Trafficking of mitochondrial ATP synthase to cell surface" 2017 Mini Symposium on Mitochondrial Structure and Function, Taipei, Taiwan, Oct. 23, 2017.
  62. "Systems biology data science discovers reprogramming serine metabolism for neuroblastoma therapy" The 3rd Asia-Pacific Neuroblastoma Symposium (APSN2017), , Tokyo, Japan, Oct. 6, 2017
  63. "Systems biology data science for breast cancer therapy" 2017 Taipei International Breast Cancer Symposium, Taipei, Taiwan, Sep. 29-Oct. 1, 2017.
  64. "Integrative phosphoproteome and proteome reveal key protein phosphorylation by MCM2 in lung cancer" Cascadia Proteomics Symposium, Seattle, USA, July 17-18, 2017.
  65. "Systems biology data science for anticancer drug discovery", 2017 Taiwan Joint Cancer Conference, Taipei, Taiwan, May 6-7, 2017.
  66. "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.
  67. "Systems biology data science: target and drug discovery", Taipei Medical University, Taipei, Taiwan, March 27, 2017.
  68. "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.
  69. "Integration of systems and synthetic biology: biomedical applications", National Health Research Institutes, Zhunan, Taiwan, March 13, 2017.
  70. "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.
  71. "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.
  72. "Systems biology: integrating mathematics, physics, computer science and biology (結合數學、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.
  73. "Integrated systems and synthetic biology: study on a key energy protein", Department of Life Science, National Chung Cheng University, April 15, 2016.
  74. "Response dynamics of ectopic ATP synthase blockade", Department of Biotechnology and Laboratory Science in Medicine, National Yang-Ming University, January 7, 2016.
  75. "Systems biology data science for high-risk neuroblastoma therapy", Department of Electric Engineering, National Tsing Hua University, Hsin-Chu, Taiwan, November 27, 2015.
  76. "Network medicine in human disease" Annual Symposium on Biomedical Engineering and Technology, Taipei, Taiwan, November 13-14, 2015.
  77. "Drug-induced response networks in cancer cells" 2015 TPS Annual Meeting, Taoyuan, Taiwan, November 13-14, 2015.
  78. "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.
  79. "Integrative omics analyses reveal the importance of ectopic ATP synthase in cancer progression", Taipei Medical University, Taipei, Taiwan, October 5, 2015.

80. "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.
81. "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.
82. "Integrative omics and network biology for cancer therapy", National Taiwan Ocean University, Keelung, Taiwan, June 17, 2015.
83. "Integrative systems and synthetic biology for medical genomics: bioinformatics is the key", Medical Genetics & Genomics Monthly Seminar, Taipei, Taiwan, June 8, 2015.
84. "Integrated systems and synthetic biology for cancer therapy", Synthetic Biology Young Scholar Forum (SynBioYSF), Beijing, China, May 23, 2015.
85. "Dynamic response network of ectopic ATP synthase blockade", the Third BMIRC International Symposium for Virtual Physiological Human, Iizuka, Fukuoka, Japan, March 5-6, 2015.
86. "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.
87. "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.
88. "Response network of ectopic ATP synthase blockade", 15<sup>th</sup> IUBMB-24<sup>th</sup> FAOBMB-TSBMB International Conference, Taipei, Taiwan, October 21-26, 2014.
89. "Integrative omics and network study of *Rhodopseudomonas palustris*", 19<sup>th</sup> Conference of Bacteriology, Kaohsiung, Taiwan, August 21-23, 2014.
90. "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.
91. "Proteomics study and docking simulation reveal ectopic ATP synthase as an anti-cancer drug target", Computational Biology Research Center, Tokyo, Japan, June 24, 2014.
92. "How to become an interdisciplinary scientist?", Changhua Girls' Senior High School, Changhua, Taiwan, May 28, 2014.
93. "Response network of ectopic ATP synthase blockade", Taiwan International Graduate Program (TIGP), Academia Sinica, Taipei, Taiwan, March 06, 2014.
94. "Applied statistics for systems biology", Biostatistics lecture, National Taiwan University, Taipei, Taiwan, December 30, 2013.
95. "Systems biology: the approach for post-genomic era", Affiliated Senior High School of National Taiwan Normal University, Taipei, Taiwan, December 26, 2013.
96. "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.
97. "Proteomics and network biology in stem cell study", The 4<sup>th</sup> Workshop of Life Science-Medical College: Stem Cells, Taipei, Taiwan, December 09, 2013.
98. "Systems biology: integrating mathematics, physics, chemistry and biology ", Chi-Jen High School Natural Education Workshop, Taipei, Taiwan, December 05, 2013.
99. "Systems biology approach reveals ectopic ATP synthase as an anti-cancer drug target", 2013 Statistical Workshop for Pharmaceutical Promotion, Taipei, Taiwan, November 22, 2013.
100. "Response pathways of ectopic ATP synthase blockade in lung cancer cells", National Taiwan University Hospital, Taipei, Taiwan, October 30, 2013.

101. "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.
102. "Experimental design and data analysis", 2013 Paper Writing Workshop for Scientific Experiments, Taipei, Taiwan, September 12, 2013.
103. "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.
104. "Docking simulation and protein-protein interaction network analysis reveal ectopic ATP synthase as an anti-cancer drug target", 8<sup>th</sup> Symposium of Asian Biophysics Association (ABA Jeju 2013), Jeju, Korea, May 26-29, 2013.
105. "Docking simulation for discovery of ectopic ATP synthase inhibitor as anti-cancer drug", 2012 NCHC HPC User Workshop, Hisnchu, Taiwan, October 30, 2012.
106. "Blocking ectopic ATP synthase suppresses lung adenocarcinoma cell growth by activating unfolded protein response", The 12<sup>th</sup> Emerging Information and Technology Conference (EITC), Toronto, Ontario, Canada, August 16-17, 2012.
107. "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.
108. "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.
109. "Integrative network analysis reveals active microRNAs and their functions", TIGP, Academia Sinica, Taipei, Taiwan, May 17, 2012.
110. "Integrative network analysis reveals active microRNAs and their functions", National Taiwan University, Taipei, Taiwan, May 14, 2012.
111. "Integrative network analysis reveals active microRNAs and their functions", National Cheng-Kung University Tainan, Taiwan, April 20, 2012.
112. "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.
113. "Integrative network analysis reveals active microRNAs and their functions in gastric cancer", Nara Institute of Science and Technology, Nara, Japan, January 26, 2012.
114. "*Helicobacter pylori* activates a plasma membrane repair response", Keio University, Tsuruoka, Japan, January 23, 2012.
115. "Systems biology for drug discovery", Department of Chemistry, National Normal University, Taipei, Taiwan, December 19, 2011.
116. "Integrative network analysis reveals active microRNAs and their functions in gastric cancer", Taiwan-UK Collaborative Forum: Systems Biology Symposium, Taipei, Taiwan, November 28, 2011.
117. "Systems biology: applications in cancer-related research", 26<sup>th</sup> Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 19-20, 2011.
118. "Systems biology in cancer research", 2011 Symposium on Molecular Cellular and Genomics Medicine, Taipei, Taiwan, March 12, 2011.
119. "Systems biology: applications in cancer-related research", National Cheng Kung University, Tainan, Taiwan, November 16, 2010.
120. "Response network of *Helicobacter pylori* infection in gastric cancer", The 8<sup>th</sup> Bioinformatics and Systems Biology, Taipei, Taiwan, September 30-October 1, 2010
121. "Response network of *Helicobacter pylori* infection in gastric cancer", Human Proteome World Congress 2010 (HUPO2010), Sydney, Australia, September 19-23, 2010.

122. "Targeting breast cancer therapy by blocking key energy protein", 2010 Taipei Interational Breast Cancer Symposium, Taipei, Taiwan, September 4-5, 2010.
123. "Membrane repair against *H. pylori* leads to carcinogenesis", Osaka University, Osaka, Japan, August 25, 2010.
124. "miRNA-regulated network in cancer", The 10<sup>th</sup> Taiwan International Symposium on Statistical Physics: Critical Phenomena and Complex Biological Systems, Academia Sinica, Taipei, Taiwan, July 27, 2010.
125. "Systems biology for biomedical research", College of Life Sciences, National Chung Hsing University (NCHU), Taichung, Taiwan, May 07, 2010.
126. "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.
127. "Systems biology for cancer research", Department of Biological Science and Technology, I-Shou University, Kaohsiung County, Taiwan, April 23, 2010.
128. "Systems biology for cancer research", Institute of Physics, Academia Sinica, Taipei, Taiwan, April 13, 2010.
129. "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.
130. "Systems biology for cancer therapy", Department of Biotechnology, Ming Chuang University, Taoyuan County, Taiwan, March 12, 2010.
131. "ATP synthase, a new target for cancer therapy", 7<sup>th</sup> International Symposium for Chinese Medicinal Chemists (ISCMC-2010), Kaohsiung Medical University, Kaohsiung, Taiwan, Feb. 1 - 5, 2010.
132. "Systems biology in breast cancer therapy", The Breast Cancer Society of TAIWAN, Taipei, Taiwan, Jan 16, 2010.
133. "Targeting cancer therapy by blocking key energy protein", Graduate Institute of Molecular Systems Biomedicine, China Medical University, Taichun, Taiwan, Dec. 11, 2009.
134. "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.
135. "Discovery of a novel target for cancer therapy", Institute of Biomedical Sciences, National Sun Yat-sen University, Kaohsiung, Taiwan, Dec. 07, 2009.
136. "Network analysis reveals the roles of microRNAs in cancers", Institute of Biomedical Engineering, National Taiwan University, Taipei, Taiwan, Nov. 17, 2009.
137. "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.
138. "Network analysis reveals the role of miR-148a in gastric cancer", National Health Research Institute, Zhunan, Miaoli, Taiwan, Oct. 08, 2009.
139. "Regulatory networks of a novel miRNA in human breast cancer cells", Computational Biology Seminar Pilot Research Project, Academia Sinica, Taipei, Taiwan, Sep. 14, 2009.
140. "Discovery of a novel target for cancer therapy using high-throughput technologies", The 9<sup>th</sup> Emerging Information & Technology Conference, Massachusetts Institute of Technology Cambridge, Massachusetts, USA, August 6 - 7, 2009.
141. "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.
142. "ATP synthase, a new target for cancer therapy", Westlake International Conference on Personalized Medicine, Hangzhou, China, May 29 - May 31, 2009.

143. "MicroRNA & cancer", National Taiwan Normal University, Taipei, Taiwan, May 7, 2009.
144. "Computational requirements in systems biology", IBM Blue Gene Worskhop, IBM T.J. Watson Research Center, Yorktown Heights, NY, USA, April 30 - May 1, 2009.
145. "Systems analysis reveals the anti-leukemia molecular mechanism induced by Ganoderma lucidum polysaccharides", Conference on the Reishi polysaccharide F3 Fraction, Academia Sinica, Taipei, Taiwan, April 2, 2009.
146. "Discovery of a novel therapeutic target", 2009 Taiwan Seminar on Bioinformatics and Systems Biology, His-Chu, Taiwan, March 5, 2009.
147. "Targeting cancer therapy by blocking key energy protein", Institute of Systems Biology and Bioinformatics, National Central University, Chungli, Taiwan, Dec. 18, 2008.
148. "Targeting cancer therapy by blocking key energy protein", 2008 Taiwan – Japan Proteomics Symposium, Taipei, Taiwan, Dec. 03 - 05, 2008.
149. "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.
150. "Systems biology for drug discovery", Institute of Biomedical Engineering and Environmental Sciences, National Tsing-Hua University, Hsin-Chu, Taiwan, Oct. 1, 2008.
151. "Applications of systems biology to bioenergy and drug discovery", ABRC, Academia Sinica, Sep. 8, 2008.
152. "Targeting cancer therapy by blocking key energy protein", Institute for Advanced Biosciences, Keio University, Tsuruoka, Yamagata, Japan, June 23, 2008.
153. "How proteomics can help drug discovery?", National Taiwan University Medical School, Taipei, June 3, 2008.
154. "Applying synthetic systems biology to develop butanol-tolerant microbes", Biofuel Workshop 2008, Academia Sinica, May 30, 2008.
155. "Systems biology in drug discovery", Department of Life Science, National Taiwan University, March 4, 2008.
156. "Gene ontology", The Second Virtual Training Workshop on Bioinformatics, June-August, 2007.
157. "Functional classification and clustering", National Taiwan University Medical Library, Taipei, July 19, 2007.
158. "Needle in the haystack - biological database search", Department of Life Science, National Normal University, Taipei, Jul 4 & 11, 2007.
159. "New therapeutic targets in gastric cancer", Symposium on Proteomics, Genomics and Molecular Diagnostics, Taipei, June 27, 2007.
160. "Prediction and validation of differential expressed microRNAs in cancer cells", Applied Biosystems Taiwan, Taipei, June 5, 2007.
161. "A drop of blood, to predict your life - gene chips and bioinformatics Outlook", Rotary Club of Taipei Nanxin, Taipei, June 1, 2007.
162. "Cancer systems biology", Chung Hsing University, Taichung, May 10, 2007.
163. "Molecular Regulation from Gene Expression to Network", Taiwan International Graduate Program, Academia Sinica, Taipei, May 3, 2007.
164. "Gene network construction in systems biology", Department of Entomology, National Taiwan University, Taipei, April 17, 2007.
165. "Cancer systems biology: biological pathway in leukemia cell differentiation", Second Workshop on System Biology and Bioinformatics, National Central University, Taoyuan County, April 14, 2007.
166. "Regulation of Reishi polysaccharide on leukemia from gene expression to network construction", Kyushu Institute of Technology, Fukuoka, Japan, Jan 31, 2007.
167. "Molecular Regulation from Gene Expression to Network", NTU Hospital, Taipei, April 3, 2007.

168. "Cancer systems biology: from gene expression to biological networks", 2007 Biophysics & Soft-matter Days, Kenting, Jan. 27, 2007.
169. "Regulatory network of a novel compound on cancer cells", 2007 Protein-protein Interaction and Network Biology Workshop, Taipei, Jan. 22, 2007.
170. "Elucidating the molecular regulation from gene expression to network construction", Institute of Systems Biology and Bioinformatics, National Central University, Chungli, Dec. 28, 2006.
171. "Systems-biology study of a novel drug in cancer cells", Annual Meeting of Chemical Engineering, Kaohsiung, Nov. 25, 2006.
172. "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.
173. "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.
174. "Systems-biology study of a novel drug on cancer cells", Nara Institute of Science and Technology, Nara, Japan, Aug. 25, 2006.
175. "Application of bioinformatics in proteomics data analysis", 2006 Taiwan Society for Mass Spectrometry, Kaohsiung, June 23, 2006.
176. "Gene ontology", The First Virtual Training Workshop on Bioinformatics, May-July, 2006.
177. "Biological pathway and gene network construction on cancer systems biology", The 11th Symposium on Recent Advances in Biophysics, Taipei, May 26, 2006.
178. "Systems biology study of leukemia cells differentiation to macrophages", Chung Shan Medical University, Taichung, March 31, 2006.
179. "Systems-biology study of a novel drug in cancer cells", The First Japan-Taiwan Bilateral Symposium on Bioinformatics, Japan, March 14, 2006.
180. "Systems-biology study of a novel drug in cancer cells", Department of Chemical Engineering, National Taiwan University, Taipei, March 1, 2006.
181. "Systems-biology Study on RGD-induced apoptosis of MCF-7 breast cancer cells", National Taiwan University, Taipei, Dec. 24, 2005.
182. "Essential bioinformatics in the analysis of DNA microarray datasets", National Taiwan University College of Medicine, Taipei, Sep. 28, 2005.
183. "Gene annotation and network in cancer research", The 5th Annual Emerging Information Technology Conference, Taipei, Aug. 15-16, 2005.
184. "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.
185. "Learning and teaching systems biology", Department of Bio-Industrial Mechatronics Engineering, National Taiwan University, Taipei, Jun 2, 2005.
186. "Bioinformatics applications in biological medicine", Tamkang University, May 20, 2005.
187. "Biomic study of human myloid leukemia cell differentiated to macrophage", Department of Life Science, National Taiwan University, Taipei, March 1, 2005.
188. "Discovery of tumor-associated biomarkers", Institute of Zoology, National Taiwan University, Taipei, Dec. 03, 2004.
189. "Discovery of tumor-associated biomarkers", Institute of Bioinformatics, Yang-Ming University, Taipei, Oct. 06, 2004.
190. "Gene network construction", National Taiwan University College of Medicine, Taipei, Sep. 25, 2004.
191. "Identification of tumor-associated plasma biomarkers 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.

192. "Identification of tumor-associated plasma biomarkers using proteomics techniques: from mouse to human", Proteomics Workshop, National Central University, Taoyuan, March 5, 2004.
193. "Application of proteomics in biotechnology", The Latest Applications of Biotechnology and Bioinformatics Symposium, Taipei, Taiwan, Dec. 27, 2004.
194. "Systems-biology study of RGD mimetic peptide in breast cancer", School of Pharmacy, National Taiwan University, Taipei, Oct. 30, 2003.
195. "Systems biology" in Drug Discovery-genomics, Drug Development Technology Platforms Designed Training Courses – Genomics, National Tsing-Hua University, Hsinchu, Aug. 29, 2003.
196. "Gene and protein database" in Summer Institute on Bioinformatics, National Taiwan University, Taipei, Aug. 12 and 13, 2003.
197. "The systems biology study: effect of RGD-peptides in breast cancer", Seminar Biochips, Taipei, Aug. 9, 2003.
198. "Bioinformatics data analysis in proteomics" in Summer Institute on Bioinformatics, National Taiwan University, Taipei, Aug. 7, 2003.
199. "Proteomics" in Biotechnology, National Taiwan Normal University, Taipei, July 18 and 25, 2003.
200. "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.
201. "Biomic study of human myeloid leukemia cell (HL-60) differentiated to macrophage using dna array, proteomics, and bioinformatics", National Taiwan University of Science and Technology, Taipei, Oct. 21, 2002.
202. "Proteomics" in *Nature and Life Technology*, National Central University, Taoyuan, Dec 27, 2002.
203. "Gene databases" in Bioinformatics, National Taiwan University, Taipei, Nov. 27, 2002.
204. "Protein databases" in Bioinformatics, National Taiwan University, Taipei, Nov. 20, 2002.
205. "Proteomics and bioinformatics on biomedical sciences", Tzu-Chi University, Hualan, Nov. 8, 2002.
206. "Genomics and proteomics" in Summer Institute on Bioinformatics, National Taiwan University, Taipei, July 2, 2002.
207. "Protein-protein interactions on the web", Department of Bioinformatics, Taichung Healthcare and Management University, Taichung, May 29, 2002.
208. "Biomic study of human leukemia cell differentiated to macrophage" in *Modern Trend Lecture Series (I): Bioinformatics*, National Defense University, Taipei, April 25, 2002.
209. "Systems biology of HL-60 and advanced methods in proteomics" in *Proteomics and Liver Disease Symposium*, Academia Sinica, Taipei, April 18, 2002.
210. "Biomic study of human myeloid leukemia cell (HL-60) differentiated to macrophage using dna array, proteomics, and bioinformatics" in *Bioinformatics Symposium*, Taichung, March 21, 2002.