

# CURRICULUM VITAE

## Hui-Jye Chen (陳慧婕)

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## Education

- 1993.9~2000.2 Ph. D. in Biochemistry, Graduate Institute of Biochemistry, School of Life Science, National Yang-Ming University, Taipei, Taiwan  
Thesis advisor: Dr. Jaulang Hwang  
Title: "Posttranslational regulation of Human DNA Topoisomerase I by a trypsin-like serine protease and ATP"
- 1991.9~1993.6 Master program of Graduate Institute of Biochemistry, School of Life Science, National Yang-Ming University, Taipei, Taiwan.  
Thesis advisor: Dr. Kin-Fu Chak  
Title: "Genetic studies of *Bacillus thuringiensis*"
- 1986.9~1990.6 B.S. in Food Science and Nutrition, Department of Food and Nutrition, Providence University, Shalu, Taichung County, Taiwan

## Professional Experience

- 2013.08~present Associate professor, China medical University
- 2007.08~2013.07 Assistant professor, China Medical University
- 2007.01~2007.07 Postdoctor, Institute of Molecular Biology, Academia Sinica  
Advisor: Dr. Bon-chu Chung
- 2004.10~2006.12 Associate Research Scientist, Department of Pathology and Cell Biology, Columbia University  
Advisor: Dr. Ronald Liem
- 2001.10~2004.9 Postdoctoral Research Scientist, Department of Pathology, Columbia University  
Advisor: Dr. Ronald Liem
- 2000.11~2001.9 Postdoctoral Research Fellow, Department of Pathology, Weill

- Medical College of Cornell University  
 Advisor: Dr. Selina Chen-Kiang
- 2000.2~2000.10 Postdoctoral Research Fellow, Institute of Molecular Biology,  
 Academia Sinica, Taipei, Taiwan  
 Advisor: Dr. Jaulang Hwang
- 1996.2~1996.7 Teaching Assistant, National Yang-Ming University, Taipei,  
 Taiwan
- 1993 Pass the national examination of nutritionist, Taiwan
- 1989.7~1990.2 Undergraduate research, Providence University, Shalu, Taichung  
 County, Taiwan  
 Advisor: Dr. Yung-Ho Chang  
 Title: “Studies of the physical and chemical properties of starch  
 modified by phosphorylation”

## **Membership**

- 2009~present Membership of the Neuroscience Society of Taiwan
- 2001.10~present Membership of the American Society for Cell Biology
- 1995.2~present Membership of the Chinese Society of Cell and Molecular  
 Biology

## **Awards**

- 1993.9~2000.2 Graduate student fellowship, Institute of Molecular Biology,  
 Academia Sinica, Taiwan
- 1998.4 Poster award, poster presentation in the Thirteenth Joint Annual  
 Conference of Biomedical Science  
 Title: “Binding of ATP to human DNA topoisomerase I resulting  
 in an alteration of conformation and catalytic activity of  
 the enzyme”
- 1998.1 Award of Dr. Chien-Tien Hsu’s Award presentation  
 Title: “Binding of ATP to human DNA topoisomerase I resulting  
 in an alteration of conformation and catalytic activity of  
 the enzyme”
- 1995 Winner of scholarship of Chung Hwa Rotary Education  
 Foundation, Taiwan

## Journal Reviewer

2010.4	Current Pharmaceutical Design
2010.6~	Biochemical Pharmacology
2016	Oncotarget

## Publications

1. **Chen, H.-J.** and Hwang, J. (1999) Binding of ATP to human DNA Topoisomerase I resulting in an alteration of conformation of the enzyme. *Euro. J. Biochem.* **265** (1), 367-375. (SCI)
2. **Chen, H.-J.**, Hwang, C.-L., Wang, J.-S. and Hwang, J. (2000) Degradation of DNA Topoisomerase I by a novel trypsin-like serine protease in proliferating human T lymphocyte. *J. Biol. Chem.* **275** (17), 13109-13117. (SCI)
3. Bauer, P.I., **Chen, H.-J.**, Kenesi, E., Kenessey, I., Buki, K.G., Kirsten, E., Hakam, A., Hwang, J. and Kun, E. (2001) Molecular interactions between poly (ADP-ribose) polymerase (PARP I) and Topoisomerase I (Topo I): identification of topology of binding. *FEBS Letters* **506** (3), 239-242. (SCI)
4. Lin, C.-M., **Chen, H.-J.**, Leung, C.L., Perry, D.A.D. and Liem, R.K.H. (2005) Microtubule Actin Crosslinking Factor 1b: a novel plakin that localizes to the Golgi complex. *J Cell Science* **118** (16), 3727-3738. (SCI)
5. **Chen, H.-J.**, Lin, C.-M., Lin, C.-S., Perez-Olle, R., Leung, C.L. and Liem, R.K.H. (2006) The role of Microtubule Actin Crosslinking Factor 1 (MACF1) in the Wnt signaling pathway. *Genes and Development* **20** (14), 1933-1945. (SCI)
6. Cheng H.-L., Tsai C.-Y., **Chen H.-J.**, Yang S.-S., and Chen Y.-C. (2009) The identification, purification and characterization of STXF10 expressed in *Streptomyces thermotrophicus* NTU-88. *Applied Microbiology and Biotechnology* **82**(4), 681-689. (SCI)
7. Wu, P.-P., Kuo, S.-C., Huang, W.-W., Yang, J.-S., Lai, K.-C., **Chen, H.-J.**, Lin, K.-L., Chiu, Y.-J., Huang, L.-J. and Chung, J.-G. (2009) (-)-Epigallocatechin Gallate induced apoptosis in human adrenal cancer NCI-H295 cells through caspase-dependent and caspase-independent pathway. *Anticancer Research* **29**(4),

- 1435-1442. (SCI)
8. Wen, Y.-F., Yang, J.-S., Kuo, S.-C., Hwang, C.-S., Chung, J.-G., Wu, H.-C., Huang, W.-W., Jhan, J.-H., Lin, C.-M. and **Chen, H.-J.** (2010) Investigation of anti-leukemia molecular mechanism of ITR-284, a carboxamide analog, in leukemia cells and its effects in WEHI-3 leukemia mice. *Biochemical Pharmacology* **79**(3), 389-398. (SCI)
  9. Chiu, Y.-J., Hour, M.-J., Lu, C.-C., Chung, J.-G., Kuo, S.-C., Huang, W.W., **Chen, H.-J.**, Jin, Y.-A. and Yang, J.-S. (2011) Novel quinazoline HMJ-30 induces U-2 OS human osteogenic sarcoma cell apoptosis through induction of oxidative stress and up-regulation of ATM/p53 signaling pathway. *Journal of Orthopaedic Research* **29**(9):1448-1456. (SCI)
  10. #Hung, Y.-L., #**Chen, H.-J.**, Liu, J.-C. and Chen Y.-C. (2012) Catalytic efficiency diversification of duplicate  $\beta$ -1,3-1,4-glucanases from *Neocallimastix partriciarum* J11. *Applied and Environmental Microbiology* **78**(12), 4294-300. (#, equal contribution.) (SCI)
  11. **Chen, H.-J.**, Hsu, L.-S., Shia, Y.-T., Lin, M.-W. , Chen, Y.-C. and Lin, C.-M. (2012) The  $\beta$ -catenin/TCF complex as a novel target of resveratrol in the Wnt/ $\beta$ -catenin signaling pathway. *Biochemical Pharmacology* **84**(9), 1143-53. (SCI)
  12. **Chen, H.-J.**, Jiang, Y.-L., Lin, C.-M., Tsai, S.-C., Peng, S.-F., Fushiya, S., Hour, M.-J., and Yang, J.-S. (2013) Dual inhibition of EGFR and c-Met kinase activation by MJ-56 reduces metastasis of HT29 human colorectal cancer cells. *Int. J. Oncol.* **43**(1), 141-50. (SCI)
  13. **Chen, H.-J.**, Lin, C.-M., Lee, C.-Y., Shih, N.-C., Peng, S.-F., Tsuzuki, M., Amagaya, S., Huang, W.-W. and Yang, J.-S. (2013) Kaempferol suppresses cell metastasis via inhibition of the ERK-p38-JNK and AP-1 signaling pathways in U-2 OS human osteosarcoma cells. *Oncol. Rep.* **30**(2), 925-32. (SCI)
  14. **Chen, H.-J.**, Lin, C.-M., Lee, C.-Y., Shih, N.-C., Amagaya, S., Lin, Y.-C. and Yang, J.-S. (2013) Phenethyl isothiocyanate suppresses EGF-stimulated SAS human oral squamous carcinoma cell invasion by targeting EGF receptor signaling. *Int. J. Oncol.* **43**(2), 629-37. (SCI)
  15. Lin, C.-Y.#, **Chen, H.-J.**#, Li, T.-M., Fong, Y.-C., Liu, S.-C., Chen, P.-C. and Tang, C.-H. (2013)  $\beta$ 5 integrin up-regulation in brain-derived neurotrophic factor promotes cell motility in human chondrosarcoma. *PLoS One* **8**(7), e67990. (SCI) (#,

equal contribution.)

16. Cheng, S.-Y., Wang, C.-M., Cheng, H.-L., **Chen, H.-J.**, Hsu, Y.-M., Lin, Y.-C. and Chou, C.-H. (2013) Biological activity of oleanane triterpene derivatives obtained by chemical derivatization. *Molecules* **18**(10), 13003-19. (SCI)
17. Lin, C.-M., Kao, W.-C., Yeh, C.-A., **Chen, H.-J.**, Lin, S.-Z., Hsieh, H.-H., Sun, W.-S., Chang, C.-H. and Hung, H.-S. (2015) Hyaluronic acid-fabricated nanogold delivery of the inhibitor of apoptosis protein-2 siRNAs inhibits benzo[*a*]pyrene-induced oncogenic properties of lung cancer A549 cells. *Nanotechnology* **26**(10), 105101. (SCI)
18. Hseu, Y.-C., Thiyagarajan, V., Tsou, H.-T., Lin, K.-Y., **Chen, H.-J.**, Lin, C.-M., Liao, J.-W. and Yang, H.-L. (2016) In vitro and in vivo anti-tumor activity of CoQ0 against melanoma cells: inhibition of metastasis and induction of cell-cycle arrest and apoptosis through modulation of Wnt/ $\beta$ -catenin signaling pathways. *Oncotarget* **7**(16):22409-22426.

## Conference abstract

1. **Chen, H.-J.**, Lee, K.-H., Hwang, J. (1995) Novel water-soluble camptothecin derivatives as potent Topoisomerase I poisons. The 10th Joint Annual Conference of Biomedical Science, Taipei, Taiwan. Abstr No. 414
2. **Chen, H.-J.**, Lee, K.-H., Hwang, J. (1996) Novel water-soluble camptothecin derivatives as potent Topoisomerase I poisons. The 7th Conference on DNA Topoisomerase in Therapy. New York, NY. Abstr No. S25
3. **Chen, H.-J.** , Hwang, C.-L., Hwang, J. (1997) The posttranslational regulation of DNA topoisomerase I in human T lymphocytes during proliferation. The 5th Symposium on Recent Advances in Cellular and Molecular biology. Kending, Ping Tung county, Taiwan. Abstr No. P32
4. **Chen, H.-J.** , Hwang, C.-L., Hwang, J. (1998) Binding of ATP to human DNA topoisomerase I resulting in an alteration of conformation and catalytic activity of the enzyme. The 6th Symposium on Recent Advances in Cellular and Molecular biology. Kending, Ping Tung county, Taiwan. Abstr No. A6
5. **Chen, H.-J.**, Hwang, J. (1998) Binding of ATP to human DNA topoisomerase I resulting in an alteration of conformation and catalytic activity of the enzyme. The 13th Joint Annual Conference of Biomedical Science, Taipei, Taiwan. Abstr No. P92
6. **Chen, H.-J.**, Lin, C.-M., Liem, R.K.H. (2003) Disruption of MACF gene causes early embryonic lethality. 43<sup>rd</sup> Annual Meeting of the American Society for Cell Biology. San Francisco, CA. Abstract No. L110
7. Lin, C.-M., **Chen, H.-J.**, Leung, C.L., Parry, D.A.D., Liem, R.K.H. (2003) Characterization of MACF1b, a MACF isoform that has the potential to interact with all three cytoskeletal filaments. 43<sup>rd</sup> Annual Meeting of the American Society for Cell Biology. San Francisco, CA. Abstract No. B304
8. Lin, C.-M., Hsu, W.-C., Liem, R.K.H., **Chen, H.-J.\*** (2009) The Function of MACF1 in Regulated Exocytosis. 1<sup>st</sup> Poster Exhibition of IMBEA '09. Institute of Molecular Biology, Academia Sinica, Nankang, Taipei. Poster No. 3
9. Wang, W.-C., Jan, J.-C., Wei, P.-Y., Lin, C.-M., **Chen, H.-J.\*** (2009) The

Involvement of WNT Signaling Pathway in Oral Cancer Metastasis. 1<sup>st</sup> Poster Exhibition of IMBEA '09. Institute of Molecular Biology, Academia Sinica, Nankang, Taipei. Poster No. 2

10. Lin, C.-M., Hsu, W.-C., Liem, R.K.H., **Chen, H.-J.\*** (2010) The Function of MACF1 in Regulated Exocytosis. The 25<sup>st</sup> Joint Annual Conference of Biomedical Science. National Defense Medical Center, Taipei. Poster No. 501
11. Liao, P.-Y., Lin, C.-M., **Chen, H.-J.\*** (2011) Post-translational modification of beta-catenin in mammalian cells. The 26<sup>st</sup> Joint Annual Conference of Biomedical Science. National Defense Medical Center, Taipei. Poster No. P483
12. Wei, P.-Y., Hsu, L.-S., Lin, C.-M., **Chen, H.-J.\*** (2012) Post-translational Regulation of Axin in Wnt Signaling. The 27<sup>th</sup> Joint Annual Conference of Biomedical Science. National Defense Medical Center, Taipei. Poster No. P546
13. Wang, W.-C., Lin, C.-M., **Chen, H.-J.\*** (2013) GTP-binding Protein Involves in the Regulation of Axin Degradation. The 28<sup>th</sup> Joint Annual Conference of Biomedical Science. National Defense Medical Center, Taipei. Poster No. P100
14. Lin, C.-A., Lin, C.-M., **Chen, H.-J.\*** (2015) The Effect of Apigenin on Wnt/beta-catenin Signaling. The 23<sup>rd</sup> Symposium on recent Advances in Cellular and Molecular Biology. Kenting, Pingtung. Poster No. 060
15. Huang, Y.-H., Lin, C.-M., , Chang, W.-C., **Chen, H.-J.\*** (2015) The Effect of a Plant Quinoline Alkaloid from *Nothapadytes foetida* (Wight) Sleum on Wnt Signaling. The 23<sup>rd</sup> Symposium on recent Advances in Cellular and Molecular Biology. Kenting, Pingtung. Poster No. 169