

**Name**

- Ya-Huey Chen

**Title**

- Assistant Professor

**Contact**

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**Resume**

- Degree:
  - 07/2000 B.S., National Chung Hsing University, Taichung, Taiwan. Zoology
  - 12/2006 PH.D., National Cheng Kung University, Tainan, Taiwan. MOLECULAR BIOLOGY
  - 01/2007 POSTDOC., China Medical University Hospital, Center for Molecular Medicine, TAICHUNG, Taiwan. STEM CELL, CANCER BIOLOGY
- Present employment and experience
  - 2007-2011 Postdoctoral fellow in Center for Molecular Medicine, China Medical University Hospital
  - 2011-present Assistant research fellow in Center for Molecular Medicine, China Medical University Hospital
  - 2012- present Assistant professor in Graduate Institute of Cancer Biology

**Fields of Specialty**

- Cancer biology
- Molecular biology
- Stem cells

**Research**

- Tumor angiogenesis
- Bone cancer and bone related disease

- Cancer metabolism
- Mesenchymal stem cells
- Lab photo:



## Paper & Project

Peer-reviewed Articles :

1. **Chen YH<sup>†</sup>**, Wu HL, Chen CK, Huang YH, Yang BC, Wu LW. Angiostatin antagonizes the action of VEGF-A in human endothelial cells via two distinct pathways. *Biochem Biophys Res Commun*, 2003; 310:804-810.
2. Wen-Huei Lien, Chi-Kuan Chen, Ling-Ya Lai, **Ya-Huey Chen**, Ming-Ping Wu, Li-Wha Wu. Participation of cyclin D1 deregulation in TNP-470-mediated cytostatic effect: involvement of senescence. *Biochemical Pharmacology*, 2004; 68:729-738.
3. Li-Wha Wu,1,4 Yi-Ming Chiang, Hsiao-Ching Chuang, Sheng-Yang Wang, Ga-Wen Yang, **Ya-Huey Chen**, Ling-Ya Lai, and Lie-Fen Shyur. Polyacetylenes Function as Anti-angiogenic Agents. *Pharmaceutical Research*, 2004; 21:2112-2119.

4. **Chen, Y-H.** <sup>†</sup>, Wu, H-L., Li, C., Huang, Y-H., Chiang, C-W., Wu, M-P. And Wu, L-W. Anti-angiogenesis mediated by angiostatin K1-3, K1-4 and K1-4.5. Involvement of p53, FasL, AKT and mRNA deregulation. *Thromb Haemost.* 95(4):668-677, 2006.
5. **Chen YH**<sup>†</sup>, Y. -H. HUANG, H. - L . WU, M.-P. WU, W. -T. CHANG, Y.-Z. KUO, K.-C. LU and L.-W. WU. Angiostatin K1-3 induces E-selectin via API and Ets1: a mediator for anti-angiogenic action of K1-3. *Journal of Thrombosis and Haemostasis*, 6: 1953–1961, 2008.
6. Su Jen-Liang; Chen Pai-Sheng; Chien Ming-Hsien; Chen Poshen B; **Chen Ya-Huey**; Lai Chien-Chen; Hung Mien-Chie; Kuo Min-Liang. Further evidence for expression and function of the VEGF-C/VEGFR-3 axis in cancer cells. *Cancer cell*, 13(6), 557-60, 2008.
7. Su, J-L., Chen, P. B., **Chen, Y-H.**, Chen, S-C., Chang, Y-W., Jan, Y-H., Cheng, X., Hsiao, M. and Hung, M-C. Downregulation of microRNA miR-520h by E1A contributes to anticancer activity. *Cancer Research* 70(12):5096-5108, 2010.
8. Lu, C., Han, H. D., Mangala, L. S., Ali-Fehmi, R., Newton, C. S., Ozbun, L., Armaiz-Pena, G. N., Hu, W., Stone, R. L., Munkarah, A., Ravoori, M. K., Shahzad, M. M. K., Lee, J-W., Mora. E., Langley, R. R., Carroll, A. R., Matsuo, K., Spannuth, W. A., Schmandt, R., Jennings, N. B., Goodman, B. W., Jaffe, R. B., Nick, A. M., Kim, H. S., Guven, E. O., **Chen, Y-H.**, Li, L-Y., Hsu, M-C., Coleman, R. L., Calin, G. A., Denkbass, E. B., Lim, J. Y., Lee, J-S., Kundra, V., Birrer, M. J., Hung, M-C., Lopez-Berestein, G. and Sood, A. K. Regulation of tumor angiogenesis by EZH2. *Cancer Cell* 18:185-197, 2010.
9. Li, L-Y., Dai, H-Y., Yeh, F-L., Kan, S-F., Lang, J-Y., Hsu, J-L., Jeng, L-B., **Chen, Y-H.**, Sher, Y-P., Lin, W-C. and Hung, M-C.\* Targeted hepatocellular carcinoma proapoptotic BikDD gene therapy. *Oncogene* 30(15):1773-1783, 2011.
10. Wei, Y., **Chen, Y-H**<sup>††</sup>, Li, L-Y.\*, Lang, J., Yeh, S-P., Shi, B., Yang, C-C., Yang, J-Y., Lin, C-Y., Lai, C-C. and Hung, M-C.\* CDK1-dependent phosphorylation of EZH2 suppresses methylation of H3K27 and promotes osteogenic differentiation of human mesenchymal stem cells, *Nat Cell Biol* 13(1):87-94, 2011.(<sup>††</sup>Second author)
11. **Chen, Y-H.** <sup>†</sup>, Yeh, F-L., Yeh, S-P., Ma, H-T., Hung, S-C., Hung, M-C.\* and Li, L-Y.\* MITR is a switch that promotes osteogenesis and inhibits adipogenesis of mesenchymal stem cells by inactivating PPAR $\gamma$ -2. *Journal of Biological Chemistry* 286(12):10671-10680, 2011.
12. Li, L-Y\*, Chen, H., Hsieh, Y-H., Wang, Y-N., Chu, H-J., **Chen, Y-H.**, Chen, H-Y., Chien, P-J., Ma, H-T., Tsai, H-C., Lai, C-C., Sher, Y-P., Lien, H-C., Tsai,

C-H. and Hung, M-C.\* Nuclear ErbB-2 enhances translation and cell growth by activation of rRNA gene transcription. *Cancer Research* 71(12):4269-4279, 2011.

13. **Ya-Huey Chen**<sup>†</sup>, Mien-Chie, and Woei-Cherng Shyu. Roles of cancer stem cells in brain tumors. *Biomedicine* 2(3):84-91, 2012
14. **Ya-Huey Chen**<sup>†</sup>, Mien-Chie, and Long-Yuan Li. EZH2: a pivotal regulator in controlling cell differentiation. *Am J Transl Res* 4(4):364-375, 2012
15. Yu, Y-H., Chen, H-A., Chen, P-S., Cheng, Y-J., Hsu, W-H., Chang, Y-W., **Chen, Y-H.**, Jan, Y., Hsiao, M., Chang, T-Y., Liu, Y-H., Jeng, Y-M., Wu, C-H., Huang, M-T., Su, Y-H., Hung, M-C., Chien, M-H.\*, Chen, C-Y., Kuo, M-L. and Su, J-L.\* MiR-520h-mediated FOXC2 regulation is critical for inhibition of lung cancer progression by resveratrol. *Oncogene* 32(4):431-443, 2013
16. Ming-Kai Tsai, Hui-Min Wang, Jeng-Chuan Shiang, I-Hung Chen, Chih-Chiang Wang, Ya-Fen Shiao, Wen-Sheng Liu, Tai-Jung Lin, Tsung-Ming Chen and **Ya Huey Chen**. Sequence variants of ADIPOQ and association with type 2 diabetes mellitus in Taiwan Chinese Han population. *The Scientific World Journal*. 2014. Article ID 650393.
17. **Ya-Huey Chen**, Chiao-Chen Chung, Yu-Chia Liu, Su-Peng Yeh, Jennifer L. Hsu, Mien-Chie Hung, Hong-Lin Su and Long-Yuan Li. EZH2 and HDAC9c regulate age-dependent mesenchymal stem cell differentiation into osteoblasts and adipocytes. *Stem Cells* 34(8): 2183-93, 2016

## GOVERNMENT GRANT SUPPORTS

### Ongoing Research Support

MOST 104-2320-B-039-047-MY3

Characterization of FGF9 involvement in osteoarthritis progression towards clinical therapies

Role: PI

MOST 105-2314-B-039-023

Investigation of association between differential gene expression in the regulation of oropharyngeal and hypopharyngeal cancers and parameter heterogeneity on PET images

Role: Co-PI

### Completed Research Support

NSC 101-2320-B-039-002

Chen (PI)

08/01/12-07/31/13

Characterization the role of EZH2 in chondrosarcoma and toward development of new targeted therapies for chondrosarcoma treatment

Role: PI

