CMU Faculty Profile

Wei-Lan Yeh

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College of Biopharmaceutical and Food Sciences

Ph.D., National Taiwan University (Taiwan), 2009

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Research Interests:
Tumor Microenvironment, Cancer Metastasis, Drug Resistance
腫瘤微環境、癌症轉移、癌症抗藥性

Appointments:
2009-2010: Postdoctoral fellow: Massachusetts General Hospital Center for Cancer Research and Harvard Medical School (Boston, MA)
2010-2011: Postdoctoral fellow: National Museum of Natural Science (Taichung, Taiwan)
2012-2016: Research fellow: Department of Cell and Tissue Engineering, Changhua Christian Hospital (Changhua, Taiwan)
2016-present: Assistant professor: Institute of New Drug Development, CMU

Research Interests:
The research themes in my lab aim to study the interaction between mesenchymal stem cells and tumor cells in the tumor microenvironment. We also investigate the crosstalk of brain microgila and tumor cells in breast cancer brain metastasis. By conducting molecular biological approaches and animal disease models, we attempt to understand and try to overcome cancer metastasis and drug resistance.

Representative Publications:
Migration-prone glioma cells show curcumin resistance associated with enhanced expression of miR-21 and invasion/anti-apoptosis-related proteins. **WL Yeh**, HY Lin, CY Huang, BR Huang, C Lin, DY Lu, HC Wei. *Oncotarget*, 2015, 6(35):37770-37781.
Brain-derived neurotrophic factor regulates cell motility in human colon cancer. SM Huang, C Lin, HY Lin, CM Chiu, CW Fang, KF Liao, DR Chen, **WL Yeh***. *Endocrine-related cancer*, 2015, 22(3):455-464.
Mesenchymal Stem Cell-Induced Doxorubicin Resistance in Triple Negative Breast Cancer. DR Chen, DY Lu, HY Lin, **WL Yeh***. *BioMed Research International* 2014, Article ID 532161.
Combination Treatment of Tamoxifen with Risperidone in Breast Cancer. **WL Yeh***, HY Lin, HM Wu, DR Chen. *PLoS One* 2014, 9(6): e98805.
Fulvestrant-Induced Cell Death and Proteasomal Degradation of Estrogen Receptor α Protein in MCF-7 Cells Require the CSK c-Src Tyrosine Kinase. **WL Yeh**, K Shioda, KR Coser, D Rivizzigno, KR McSweeney, T Shioda. *PLoS One* 2013, 8(4): e60889.
A forward loop between glioma and microglia: Glioma-derived extracellular matrix-activated microglia secrete IL-18 to enhance the migration of glioma cells. **WL Yeh**, DY Lu, HC Liou, WM Fu. *Journal of Cellular Physiology* 2012, 227(2):558-568.