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Research interest:

Tumor metastasis is a key step in facilitating the progression of human cancer. We mainly focus on investigating the mechanism of how cancer cells acquire the capacity to metastasize and the possible therapeutic strategies. Our research interest is identification of the tumor suppressive/oncogenic factors, including proteins and non-coding RNAs.

Selected Publications:

1. Chen PS, Su JL, Cha ST, Tarn WY, Wang MY, Hsu HC, Lin MT, Chu CY, Hua KT, Chen CN, Kuo TC, Chang KJ, Michael Hsiao, Chang YW, Chen JS, Yang PC, Kuo ML. MiR-107 Promotes Tumor Progression by Targeting the Let-7 MicroRNA in Mice and Humans. ***J Clin Invest.*** 2011 Sep 121(9):3442–3455.doi:10.1172/JCI45390.
2. Cha ST, Chen PS, Johansson G, Chu CY, Wang MY, Jeng YM, Yu SL, Chen JS, Chang KJ, Jee SH, Tan CT, Lin MT, Kuo ML. MicroRNA-519c suppresses hypoxia-inducible factor-1alpha expression and tumor angiogenesis. ***Cancer Res.*** 2010 Apr 1;70(7):2675-85.
3. Wang MY, Chen PS, Hsu HC, Lin MT, Chang KJ, Kuo ML. Connective Tissue Growth Factor Confers Drug Resistance in Breast Cancer through Concomitant Up-regulation of Bcl-xL and cIAP1. ***Cancer Res.*** 2009 Apr 15;69(8):3482-91.
4. Su JL, Chen PS, Chien MH, Chen PB, Chen YH, Lai CC, Hung MC, Kuo ML. Further evidence for expression and function of the VEGF-C/VEGFR-3 axis in cancer cells. ***Cancer Cell.*** 2008 Jun;13(6):557-60.
5. Chen PS, Wang MY, Wu SN, Su JL, Hong CC, Chuang SE, Chen MW, Hua KT, Wu YL, Cha ST, Babu MS, Chen CN, Lee PH, Chang KJ, Kuo ML. CTGF enhances the motility of breast cancer cells via an integrin-alphavbeta3-ERK1/2-dependent S100A4-upregulated pathway. ***J Cell Sci.*** 2007 Jun 15;120(Pt 12):2053-65.