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所有發表期刊論文

1. C-H Hsieh, Y-I Lin, C-P Wu, H-T Lee, W-C Shyu and C-C Wang. Livin contributes to tumor hypoxia-induced resistance to cytotoxic therapies in glioblastoma multiforme. *Clinical Cancer Research* (2014).
2. C-P Wu\*, S-H Hsiao, C-Y Su, S-Y Luo, Y-Q Li, Y-H Huang, C-H Hsieh and C-W Huang. Human ATP-Binding Cassette transporters ABCB1 and ABCG2 confer resistance to CUDC-101, a multi-acting inhibitor of histone deacetylase, epidermal growth factor receptor and human epidermal growth factor receptor 2. *Biochemical Pharmacology* (2014) Nov, 92: 567-576 (\*corresponding author)
3. C-P Wu\*, S-H Hsiao, S-Y Luo, W-C Tuo, C-Y Su, Y-Q Li, Y-H Huang and C-H Hsieh. Overexpression of human ABCB1 in cancer cells leads to reduced activity of GSK461364, a specific inhibitor of polo-like kinase 1. *Molecular Pharmaceutics*. (2014) Oct, 11(10): 3727-36. (\*corresponding author)
4. S-H Hsiao, S-Y Luo, C-Y Su, W-C Tuo, C-T Chiang, Y-Q Li, Y-H Huang and C-P Wu\*. The overexpression of ABCG2 reduces the efficacy of volasertib (BI 6727) and GSK461364 in human S1-M1-80 colon carcinoma cells. *Journal of Cancer Research Updates* (2014) 3(2): 108-116. (\*corresponding author)
5. C-P Wu and SV Ambudkar. The pharmacological impact of ATP-binding cassette drug transporters on vemurafenib-based therapy. *Acta Pharmaceutica Sinica B* (2014) 4(2): 105-111
6. C-P Wu\*, S-H Hsiao, H-M Sim, S-Y Luo, W-C Tuo, H-W Cheng, Y-Q Li, Y-H Huang and SV Ambudkar. Human ABCB1 (P-glycoprotein) and ABCG2 mediate resistance to BI 2536, a potent and selective inhibitor of polo-like kinase 1. *Biochemical Pharmacology* (2013) Oct, 86(7): 904-913 (\*corresponding author)
7. Y Fukuda, K Takenaka, A Sparreboom, SB Cheepala, C-P Wu, S Ekins, SV Ambudkar, and JD Schuetz. HIV protease inhibitors interact with ABCC4/MRP4: a basis for unanticipated enhanced cytotoxicity. *Molecular Pharmacology* (2013) Sep, 84(3): 361-71.
8. M-T Tsai, J-D Lee, Y-J Lee, C-K Lee, H-L Jin, F-Y Chang, K-Y Hu, C-P Wu, C-P Chiang, and CC Yang. Differentiation of oral precancerous stages with optical coherence tomography based on the evaluation of optical scattering property. *Laser Physics* (2013) April, 23: 045602.
9. C-P Wu\*, H-M Sim, Y-H Huang, Y-C Liu, S-H Hsiao, H-W Cheng, Y-Q Li, SV Ambudkar and S-C Hsu. Overexpression of ATP-Binding Cassette transporter ABCG2 as a potential mechanism of acquired resistance to vemurafenib in BRAF(V600E) mutant cancer cells. *Biochemical Pharmacology* (2013) Feb, 85(3): 325-334 (\*corresponding author)
10. M-T Tsai, C-K Lee, F-Y Chang, J-T Wu, C-P Wu, T-T Chi and C-C Yang. Noninvasive imaging of heart chamber in Drosophila with dual-beam optical coherence tomography. *Journal of Biophotonics* (2013) Sep, 6(9): 708-717.
11. C-W Chou, C-C Wang, C-P Wu, Y-J Lin, Y-C Lee, Y-W Cheng and C-H Hsieh. Tumor cycling hypoxia induces chemoresistance in glioblastoma multiforme

by upregulating the expression and function of ABCB1. *Neuro-Oncology* (2012) Oct, 14(10): 1227-38.

12. Y-H Kuang, JP Patel, K Sodani, C-P Wu, L-Q Liao, A Patel, AK Tiwari, C-L Dai, X Chen, L-W Fu, SV Ambudkar, VL Korlipara and Z-S Chen. OSI-930 analogues as novel reversal agents for ABCG2-mediated multidrug resistance. *Biochemical Pharmacology* (2012) Sep, 84(6): 766-774.
13. C-H Hsieh, C-P Wu, H-T Lee, J-A Liang, C-Y Yu and Y-J Lin. NADPH oxidase subunit 4 mediates cycling hypoxia-promoted radiation resistance in Glioblastoma multiforme. *Free Radical Biology and Medicine* (2012) Aug, 53(4): 649-658.
14. H-M Lin, J-C Wang, H-S Hu, P-S Wu, C-C Yang, C-P Wu, S-Y Pu, T-A Hsu, W-T Jiaang, Y-S Chao, T-K Yeh, J-H Chern and A Yueh. Resistance analysis and characterization of a Thiazole analogue, BP008, as a potent Hepatitis C Virus NS5A inhibitor. *Antimicrobial Agents and Chemotherapy*. (2012) Jan, 56(1): 44-53.
15. C-P Wu, C-H Hsieh and Y-S Wu. The emergence of drug transporter-mediated multidrug resistance to cancer chemotherapy. *Molecular Pharmaceutics*. (2011) Dec, 8(6): 1996-2011.
16. HM Sim, C-P Wu, SV Ambudkar and ML Go. *In vitro* and *in vivo* modulation of ABCG2 by functionalized aurones and structurally related analogs. *Biochemical Pharmacology* (2011) Aug, 82(11): 1562-1571.
17. S Shukla, AP Skoumbourdis, MJ Walsh, AMS Hartz, KL Fung, C-P Wu, MM Gottesman, B Bauer, CJ Thomas, SV Ambudkar. Synthesis and characterization of a BODIPY conjugate of the BCR-ABL kinase inhibitor Tasigna (Nilotinib): Evidence for transport of Tasigna and its fluorescent derivative by ABC drug transporters. *Molecular Pharmaceutics*. (2011) Aug, 8(4): 1292-1302.
18. MB Lucia, M Handley, J-P Gillet, C-P Wu, GM De Donatis, R Cauda and MM Gottesman. Exposure to HIV-protease inhibitors selects for increased expression of P-glycoprotein (ABCB1) in Kaposi's Sarcoma cells. *British Journal of Cancer* (2011) Aug, 105(4): 513-522.
19. C-P Wu, S Ohnuma, and SV Ambudkar. Discovering natural product modulators to overcome multidrug resistance in cancer chemotherapy. *Current Pharmaceutical Biotechnology*. (2011) Apr, 12(4): 609-620.
20. C-C Yang, Y-C Hsieh, S-J Lee, S-H Wu, C-L Liao, C-H Tsao, Y-S Chao, C-P Wu\* and A Yueh\*. Novel dengue virus-specific NS2B/NS3 protease inhibitor, BP2109, discovered by a High-Throughput Screening assay. *Antimicrobial Agents and Chemotherapy*. (2011) Jan, 55(1): 229-238 (\*corresponding author)
21. I Abraham, S Jain, C-P Wu, Y Kuang, Z Shi, X Chen, L Fu, SV Ambudkar, KEI Sayed, Z-S Chen. Marine sponge-derived siphonane triterpenoids reverse P-glycoprotein (ABCB1)-mediated multidrug resistance in cancer cells. *Biochemical Pharmacology* (2010) Nov, 80(10): 1497-506.
22. AM Calcagno, CD Salcido, J-P Gillet, C-P Wu, JM. Fostel, M Mumau, MM Gottesman, L Varticovski, SV Ambudkar. Prolonged drug selection of breast cancer cells and enrichment of cancer stem-cell characteristics. *JNCI-Journal of the National Cancer Institute* (2010) Nov, 102(21): 1637-52.

23. Y-J Mi, Y-J Liang, H Huang, H-Y Zhao, C-P Wu, F Wang, L-Y Tao, C-Z Zhang, C-L Dai, AK Tiwari, X-X Ma, KKW To, SV Ambudkar, Z-S Chen, L-W Fu. Apatinib (YN968D1) reverses multidrug resistance by inhibiting the efflux function of multiple ATP-binding cassette transporters. *Cancer Research* (2010) Oct, 70(20): 7981-91.
24. M Kucka, K Kretschmannova, T Murano, C-P Wu, H Zemkova, SV Ambudkar, SS Stojilkovic. Dependence of multidrug resistance protein-mediated cyclic nucleotide efflux on the background sodium conductance. *Molecular Pharmacology* (2010) Feb, 77(2):270-9.
25. C-L Dai, Y-J Liang, L-M Chen, X Zhang, W-J Deng, X-D Su, Z Shi, C-P Wu, C Ashby Jr, S Akiyama, SV Ambudkar, Z-S Chen and L-W Fu. Sensitization of ABCB1 overexpressing cells to chemotherapeutic agents by FG020326 via binding to ABCB1 and inhibiting its function. *Biochemical Pharmacology* (2009) Aug, 78(4): 355-64.
26. JN Orina, AM Calcagno, C-P Wu, J Shih, S Varma, G Eichler, J Weistein, SV Ambudkar, MM Gottesman, and J-P Gillet. Evaluation of current methods used to analyze the expression profiles of ABC transporters yields an improved drug-discovery database. *Molecular Cancer Therapeutics* (2009) Jul, 8(7): 2057-2066.
27. C-L Dai\*, AK Tiwari\*, C-P Wu\*, X-D Su\*, S-R Wang, D-G Liu, CR Ashby Jr., YH, RW Robey, Y-J Liang, L-M Chen, C-J Shi, SV Ambudkar, Z-S Chen, and L-W Fu. Lapatinib (Tykerb, GW572016) reverses multidrug resistance in cancer cells by inhibiting the activity of ATP-binding cassette subfamily B member 1 and G member 2. *Cancer Research* (2008) Oct, 68: 7905-7914. (\*co-first authors)
28. C-P Wu, AM Calcagno and SV Ambudkar. Reversal of ABC drug transporter-mediated multidrug resistance in cancer cells: Evaluation of current strategies. *Current Molecular Pharmacology* (2008) Jun, 1:93-105.
29. AM Calcagno, JM Fostel, KW To, SE Martin, KJ Chewing, C-P Wu, SE Bates, NJ Caplen and SV Ambudkar. Single-step doxorubicin-selected cancer cells overexpress the ABCG2 drug transporter through epigenetic changes. *British Journal of Cancer* (2008) May, 98: 1515-1524.
30. S Shukla, C-P Wu and SV Ambudkar. Development of inhibitors of ATP-binding cassette drug transporters-present status and challenges. *Expert Opinion on Drug Metabolism & Toxicology* (2008) Feb, 4: 1-19.
31. C-P Wu, S Shukla, AM Calcagno, MD Hall, MM Gottesman and SV Ambudkar. Evidence for dual mode of action of a thiosemicarbazone, NSC73306: a potent substrate of the multidrug resistance-linked ABCG2 transporter. *Molecular Cancer Therapeutics* (2007) Dec, 6: 3287-3296.
32. S Shukla, C-P Wu and SV Ambudkar. The naphthoquinones, vitamin K3 and its structural analog plumbagin, are substrates of the multidrug resistance-linked ABC drug transporter ABCG2. *Molecular Cancer Therapeutics* (2007) Dec, 6: 3279-3286.
33. J Golin, ZN Kon, C-P Wu, J Martello, L Hanson, S Supernavage, SV Ambudkar, and ZE Sauna. Complete inhibition of the Pdr5p multidrug efflux pump ATPase activity by its transport substrate Clotrimazole suggests that ATP as well as GTP may be used as an energy source. *Biochemistry-US* (2007) Nov 46: 13109-13119.

34. AM Calcagno, I-W Kim, C-P Wu, S Shukla, and SV Ambudkar. ABC drug transporters as molecular targets for the prevention of multidrug resistance and drug-drug interactions. *Current Drug Delivery* (2007) Oct, 4: 324-333.
35. AM Calcagno, KJ Chewning, C-P Wu and SV Ambudkar. Plasma membrane calcium ATPase (PMCA4): A housekeeper for RT-PCR relative quantification of polytopic membrane proteins. *BMC Molecular Biology* (2006) Sep, 7(29): 1-10.
36. W Chearwae, C-P Wu, H-Y Chu, TR Lee, SV Ambudkar and P Limtrakul. Curcuminoids purified from turmeric powder modulate the function of human Multidrug Resistance Protein 1 (ABCC1). *Cancer Chemotherapy and Pharmacology* (2006) Feb, 14: 1-13.
37. C-P Wu, AM Calcagno, SB Hladky, SV Ambudkar, and MA Barrand. Modulatory effect of plant polyphenols on human multidrug resistance proteins 1, 4 and 5. *FEBS Journal* (2005) Sep, 272: 4725-40.
38. C-P Wu, DA van Schalkwyk, D Taylor, PJ Smith and K Chibale. Reversal of chloroquine resistance in *Plasmodium falciparum* by 9H-Xanthene derivatives. *International Journal of Antimicrobial Agents* (2005) Aug, 26: 170-175.
39. C-P Wu, A Klokouzas, SB Hladky, SV Ambudkar and MA Barrand. Interactions of mefloquine with ABC transporters, MRP1 (ABCC1) and MRP4 (ABCC4), in human erythrocyte cell membranes. *Biochemical Pharmacology* (2005) Aug, 70: 500-510.
40. C-P Wu, H Woodcock, SB Hladky, and MA Barrand. cGMP transport across human erythrocyte membranes: factors influencing its ATP-dependent uptake into inside-out membrane vesicles. *Biochemical Pharmacology* (2005) Apr, 69: 1257-62.
41. A Klokouzas, T Tiffert, DA van Schalkwyk, C-P Wu, HW van Veen, MA Barrand, SB Hladky. *Plasmodium falciparum* expresses a multidrug resistance associated protein. *Biochemical and Biophysical Research Communications* (2004) Aug, 321: 197-201.
42. A Klokouzas, C-P Wu, HW van Veen, MA Barrand and SB Hladky. cGMP and glutathione-conjugate transport in human erythrocytes. *FEBS Journal* (2003) Sep, 270: 3696-3708.