

MEET THE GUEST EDITOR

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BIOGRAPHY

Prof. Canhua Huang obtained his Ph.D. in *Academia Sinica* in 2000 and after postdoctoral training at Department of Biological Sciences, National University of Singapore, he was appointed as *Research Scientist* in Oncology Research Institute, NUS (2003-2005). In Sept 2005, he joined in the State Key Lab of Biotherapy, West China Hospital, Sichuan University, leading a group for oncoproteomics research.

RESEARCH INTEREST

- High throughput System Biology screening novel drug targets for anti-cancer research.
- Mechanisms of virus-induced carcinogenesis; Cancer metabolics and epigenetics.
- Chemistry-based functional proteomics for novel drug target deconvolution.

SELECTED RECENT PUBLICATIONS

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- [2] Xie, N.; Huang, K.; Zhang, T.; Huang, K.; Lei, Y.; Wu, H.; Zhao, X.; Nice, E.; **Huang, C.** Comprehensive proteomic analysis of host cell lipid rafts modified by HBV infection. *J. Proteomics*, **2012**, 75 (3), 725-739.
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- [4] Wang, K.; Liu, R.; Li, J.; Mao, J.; Xie, N.; Wu, J.; Lei, Y.; Zhang, T.; Zeng, J.; Wu, H.; Chen, L.; **Huang, C.**; Wei, Y. Quercetin induces protective autophagy in gastric cancer cells: Involvement of Akt-mTOR- and hypoxia-induced factor 1 α -mediated signaling. *Autophagy*, **2011**, 7(9), 966-978.
- [5] Hu, H.; Deng, C.; Dong, Q.; Yang, T.; Chen, Y.; **Huang, C.**; Wei, Y. Proteomics revisits the cancer metabolome. *Expert Rev. Proteomics*, **2011**, 8(4), 505-533.
- [6] Li, J.; Liu, R.; Lei, Y.; Wang, K.; Lau, Q.C.; Xie, N.; Zhou, S.; Nie, C.; Chen, L.; Wei, Y.; **Huang, C.** Proteomic analysis revealed association of aberrant ROS signaling with suberoylanilide hydroxamic acid-induced autophagy in Jurkat T-leukemia cells. *Autophagy*, **2010**, 6 (6), 711-724.
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- [8] Yuan, K.; Lei, Y.; **Huang, C.** Application of chemistry-based functional proteomics to screening for novel drug targets. *Comb. Chem. High Throughput Screen.*, **13** (5), 414-421.
- [9] Ren, F.; Wu, H.; Lei, Y.; Zhang, H.; Liu, R.; Zhao, Y.; Chen, X.; Zeng, D.; Tong, A.; Chen, L.; Wei, Y.; **Huang, C.** Quantitative proteomics identification of phosphoglycerate mutase 1 as a novel therapeutic target in hepatocellular carcinoma. *Mol. Cancer*, **2010**, 9, 81.
- [10] Liu, R.; Li, Z.; Bai, S.; Zhang, H.; Tang, M.; Lei, Y.; Chen, L.; Liang, S.; Zhao, Y.; Wei, Y.; **Huang, C.** Mechanism of cancer cell adaptation to metabolic stress: proteomics identification of a novel thyroid hormone mediated gastric carcinogenic signaling pathway. *Mol. Cell Proteomics*, **2009**, 8(1), 70-85.
- [11] Li, Z.; Zhao, X.; Bai, S.; Wang, Z.; Chen, L.; Wei, Y.; **Huang, C.** Proteomic identification of cyclophilin A as a potential prognostic factor and therapeutic target in endometrial carcinoma. *Mol. Cell Proteomics*, **2008**, 7(10), 1810-1823.
- [12] Wang, Z.; Jiang, L.; **Huang, C.**; Li, Z.; Tong, A.; Chen, L.; Shen, J.; Gao, F.; Chen, Q. Comparative proteomic approach to screening of potential diagnostic and therapeutic targets for oral squamous cell carcinoma. *Mol. Cell Proteomics*, **2008**, 7, 1639-1650.
- [13] Tong, A.; Gou, L.; Lau, Q.; Li, J.; Zhao, X.; Chen, L.; Tang, H.; **Huang, C.**; Wei, Y. Proteomic Profiling identifies aberrant epigenetic modifications induced by hepatitis B virus X protein. *J. Proteome Res.*, **2009**, 8(2), 1037-1046.
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- [15] Li, Z.; **Huang, C.**; Bai, S.; Pan, X.; Zhou, R.; Wei, Y.; Zhao, X. Prognostic evaluation of epidermal fatty acid-binding protein and calcyphosine, two proteins implicated in endometrial cancer using a proteomic approach. *Int. J. Cancer*, **2008**, 123 (10), 2377-2383.
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- [17] **Huang, C.**; Ida, H.; Ito, K.; Zhang, H.; Ito, Y. Contribution of reactivated RUNX3 to inhibition of gastric cancer cell growth following suberoylanilide hydroxamic acid (vorinostat) treatment. *Biochem. Pharmacol.*, **2007**, 73(7), 990-1000.
- [18] Tong, A.; Zhang, H.; Li, Z.; Gou, L.; Wang, Z.; Wei, H.; Tang, M.; Liang, S.; Chen, L.; **Huang, C.**; Wei, Y. Proteomic analysis of liver cancer cells treated with suberoylanilide hydroxamic acid. *Cancer Chemother. Pharmacol.*, **2008**, 61(5), 791-802.
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