Zi-Chun Hua

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Professor Hua obtained the Bachelor, Master and Doctor degrees from Nanjing University in 1986, 1989 and 1994, respectively. He received postdoctoral training in Wadsworth Center of New York State Health Department, U.S.A. from 1994-1996. He did research in University of California at Berkeley, U.S.A. as Berkeley Scholar from 2000-2003. He joined Department of Biochemistry, Nanjing University in 1989 as an assistant. He was promoted to lecturer in 1991, associate professor in 1992 and full professor in 1995. In October 2009, he was appointed as distinguished professor in Macau University of Science and Technology.

Prof. Hua's research fields include molecular pharmacology, design and screening of anti-cancer drugs and the related mechanisms. He has published more than 200 papers in SCI journals. He received a number of awards, including "National Outstanding Young Teachers Award" in 2000 by the Ministry of Education (MOE) of China, "National Outstanding Young Scientists Award" by the National Science Foundation of China (NSFC) in 2004, "Changjiang Scholar Professorship Award" by the Ministry of Education of China in 2009. He received "The 2nd Prize of State Technological Innovation Award" in 2012 and "The 2nd Prize of State Natural Science Award" in 2000 by the People's Republic of China, "Silver Award of the 15th China International Industry Fair" in 2013. He has been awarded the first prize from Jiangsu Province or Ministry of Education of China three times. For his excellence in

translational researches, he has been selected among the top ten excellent cases of the Industry-University Research Cooperation in Chinese Universities between the years of 2008-2010 by the Ministry of Education of China. His research was financially supported by Ministry of Science and Technology of China, National Natural Science Foundation of China, Ministry of Education of China, Jiangsu Province, Macao Special Administrative Region and some pharmaceutical industries.

Education:

July, 1986, B. Sc. (Nanjing University, Nanjing, China)
May, 1989, M. Sc. (Nanjing University, Nanjing, China)
May, 1994, Ph. D. (Nanjing University, Nanjing, China)

Professional Chronology:

July, 1989- December, 1992	Assistant, Lecturer, Nanjing University, Nanjing, China
December, 1992-February, 1995	Associate Professor, Nanjing University, Nanjing, China
July, 1994-Aygust, 1996	(Sabbatical leave) Postdoctoral Research Fellow, Wadsworth Research Center, New York Health Department, U.S.A
February, 1995-present	Professor, Nanjing University, Nanjing, China.
January, 2000-April 2003	(Sabbatical leave) Berkeley Scholar Visiting Professor, University of California at Berkeley, U.S.A
October, 2009-present	Distinguished Professor, Macau Institute for Applied Research in Medicine and Health, Macau University of Science and Technology

Teaching Subjects:

1) Life Science

Research Fields:

1) Molecular Pharmacology
2) Design and Screening of Anti-cancer Drugs

3) Gene Engineering and Protein Engineering

4) Signal Transduction of Apoptosis

Memberships:

1) Chinese Society of Biochemistry and Molecular Biology
2) Chinese Society of Immunology

Awards:

1) National Outstanding Young Teachers Award, MOE, 2000
2) National Outstanding Young Scientists Award, NSFC, 2004
3) Changjiang Scholar Professorship Award, MOE, 2009
4) The 2nd Prize of State Technological Innovation Award, China, 2012
5) The 2nd Prize of State Natural Science Award, China, 2000
6) Silver Award, the 15th China International Industry Fair, 2013
7) The 1st Prize of Science and Technology Progress Award, MOE, 1998
8) The 1st Prize of Science and Technology Progress Award, Jiangsu Province, 2004
9) The 1st Prize of Science and Technology Award, Jiangsu Province, 2011

Selected Publications in Recent 2 Years:

1) Wei Cheng, Rong Zhang, Chun Yao, Liangqiang He, Kunzhi Jia, Bingya Yang, Pan Du, Hongqin Zhuang, Jianxiang Chen, Zexu Liu, Xinxin Ding, **Zichun Hua.** A Critical Role of FADD (Fas-Associated Protein with Death Domain) Phosphorylation in Intracellular Reactive Oxygen Species (ROS) Homeostasis and Aging. *Antioxid Redox Signal*. **21**, 33-45, 2014.
2) Wei Cheng; Lu Wang; Bingya Yang; Rong Zhang; Chun Yao; Liangqiang He; Zexu Liu; Pan Du; Juan Wen; Huang Li; Qiang Xu; **Zi-Chun Hua**. Self-renewal and differentiation of muscle satellite cells are regulated by the Fas-associated death domain. *J Biol Chem.* **289**, 5040–5050, 2014.
3) Xiangyu Zhang, Xiangbai Dong, Jie Li, Jing Zhang, **Zi-Chun Hua**. FADD regulates thymocyte development at the β-selection checkpoint by modulating Notch signaling. *Cell Death & Disease* **5**, e1273, 2014.
4) Xiawei Cheng, Xiaoxin Zhang, Jianxiang Chen, Cailie Ma, Bingya Yang, **Zi-Chun Hua.** Tumor-specific delivery of histidine-rich glycoprotein suppresses tumor growth and metastasis by anti-angiogenesis and vessel

normalization. *Current Gene Therapy* **14**, 75-85, 2014.

5) Li H, Zhang XY, Wu TJ, Chen W, Liu X, Jiang TT, Wen J, Li J, Ma QL, **Hua ZC**. Endoplasmic Reticulum Stress Regulates Rat Mandibular Cartilage Thinning Under Compressive Mechanical Stress. *J Biol Chem*. **288**, 18172-18183, 2013.

6) Zheng, Tingting; Fu, Jia-Ju; Hu, Lihui; Qiu, Fan; Hu, Minjin; Zhu, Jun-Jie*; **Hua, Zi-Chun***; Wang, Hui*. Nanoarchitectured Electrochemical Cytosensors for Selective Detection of Leukemia Cells and Quantitative Evaluation of Death Receptor Expression on Cell Surfaces. *Anal Chem*. **85**, 5609-5616.

7) Yao C, Zhuang H, Du P, Cheng W, Yang B, Guan S, Hu Y, Zhu D, Christine M, Shi L, **Hua ZC.** Role of FADD phosphorylation in regulating glucose homeostasis: from proteomic discovery to physiological validation. *Mol Cell Proteomics*. **12**, 2689-2700, 2013.

8) Fan Qiu, Minjin Hu, Bo Tang, Xiufeng Liu, Hongqin Zhuang, Jie Yang, **Zichun Hua**. Annexin V-TRAIL fusion protein is a more sensitive and potent apoptotic inducer for cancer therapy. *Scientific Reports* **3**, 3565, 2013.

9) Lin Yuli, Peng Nana, Li Jianping, Zhuang Hongqin, **Hua Zi-Chun**. Herbal compound triptolide synergistically enhanced antitumor activity of amino-terminal fragment of urokinase. *Mol Cancer*. **12**, 54, 2013.

10) Zhang W, Tang B, Huang Q, **Hua Z**. Galangin inhibits tumour growth and metastasis of B16F10 melanoma. *J Cell Biochem*. **114**, 152-161, 2013.