

Jianshe Yang, Ph.D.

Employment

Senior Physicist, Leader of Clinical Medicine	2015 to date
Center of Heavy Ion Radiotherapy, Institute of Modern Physics, CAS	
Professor	2008-2014
Analytical Chemistry Lab. Lanzhou Institute of Chemical Physics, CAS	
Postdoctoral Fellow	2006-2008
Nanobiomedicine Center, Shanghai Institute of Applied Physics, CAS	
Associate professor	2005-2007
Life Science College, Northwest Normal University, China	
Research Assistant	2004-2005
Radiobiology Department of Institute of Modern Physics, CAS	

Education

Ph.D. in Radiobiology	June 2005
Radiobiology Department of Institute of Modern Physics, CAS, China	
M.Sc. in Cardiac Medicine	July 2002
Guangxi TCM University, Department of 2 nd Clinical Medicine, Guangxi, China	
B.Sc. in Medicine	July 1999
Gansu University, Department of Acupuncture and Moxibustion, Gansu, China	

Skills

Heavy ion radiotherapy
Myocardium Cell Culture
Multicolor FISH
Chromosome Analysis
Research in Free Radical Biochemistry

Honors and Awards

Doctoral scholarship Grant from CAS 2004
Advanced Grant from Bureau of Science and Technology of Guangxi Government, 2004

Selected publications:

Jianshe Yang*, Hua Zhao. An improved predictive assay for radiotherapy to human hepatoma measured by prematurely chromosome condensation technique. **Physics Journal**, 2015,1:290-294

Zjiqiang Yan, Dandan Wang, Lan Ding, Haiyan Cui, Hui Jin, Xiaoyan Yang, Jianshe Yang*, Bo

Qin * . Mechanism of artemisinin phytotoxicity action: Induction of reactive oxygen species and cell death in lettuce seedlings. *Plant Physiology and Biochemistry*, 2015,88:53-59 SCI IF=2.928

Jianshun Miao, Fenfen Zhang, Guozhen Cao, Dong Lu, Miaomiao Zhang, Wenjian Li, **Jianshe Yang***. The molecular mechanisms of damage and repair by ionizing radiation in cells. *Radiation and Environmental Biophysics*, 2014 (in review) SCI

Jianshe Yang*, Gang Zhou, Nianhong Wang, Long Zhang, Tianshui Niu, Yong Liu. Unique property of Chinese medicine nanoparticles prepared with sonication techniques in aqueous phase. *Micro and Nanosystems*, 2012,4:75-79 SCI, EI IF=1

Yang Jianshe, Wu Ying, et al. The chemical components and pharmacological effects of *Fructus Schisandrae* and its application prospect. *Biomirror*, 2011,2:1-10 EI

Wang Qiang, Gang Zhou, Xigang Jing, Wenjian Li, **Jianshe Yang***. Avoid online radiation risk: Theoretical simulation of chromosome breaks in cells exposed to heavy ions. *Advances in Space Research*, 2011, 47: 2039-2043 SCI IF=1.409

Yong Liu, Kou Wei, **Jianshe Yang***. 4,8-Dimethoxyfuro[2,3-*b*]quinoline (γ -fagarine) *Acta Crystallogr Sect E* 2011, 67(Pt 8): o1907. SCI IF=1.1

Yong Liu, Tianshui Niu, Long Zhang, **Jianshe Yang**. Review on Nano Drugs. *Natural Science*, 2010, 2:41-48

Long Zhang, Hua Zhao, Gang Zhou, Tianshui Niu, **Jianshe Yang***. Simulation database system of the active ingredients in compound decoction of Chinese medicine. *Journal of Bioequivalence and Bioavailability*, 2010,2:131-134 EI

Xigang Jing, Wenjian Li, Zhuanzi Wang, Wei Wei, Chuanling Guo, Dong Lu and
Jianshe Yang* Radiosensitivity of hepatoma cell lines and human normal liver cell
lines exposed in vitro to carbon ions and argon ions at the HIRFL. **NIMB**, 2009, 267:
1837-1840 **SCI,EI IF=1.2**

Tianshui Niu , **JiansheYang**. Research advances of anticancer effects of *licorice*. **Current
Bioactive Compounds**. 2009,5:224-242 **EI**

Jianshe Yang. The Biological Function of Nano-Drugs. **The Sixth International
Forum on Post-genome Technologies**. Sept. 17, 2009, Beijing China. (Oral
presentation)

Jianshe Yang. Looking for an New Radiosensitizer from Carbon Nanotubes. **BIT's
7th Annual Congress of International Drug Discovery Science and Technology**
. Oct. 27th 2009, Shanghai China (Co-Chair of this conference, Oral Presentation)

Jianshe Yang, Wenxin Li, Bozhang Yu, et al. A new radiosensitizer: Superoxide CNT.
Gene Therapy and Molecular Biology,2008,12:247-252 **Nature
Precedings** <<http://hdl.handle.net/10101/npre.2007.1421.1>> (2007) **SCI IF=2.2**

Yang Jianshe, et. al. A method on theoretical simulation of chromosome breaks in
cells exposed to heavy ions. **Radiology And Oncology**,2008,42:32-38. **SCI
IF=1.98**

Jianshe Yang, Wenxin Li, Qingnuan Li, Shengwei Wu, Bozhang Yu, Xigang Jing,
Wenjian Li. Oxygen Adsorption by Carbon Nanotubes and Its Promising Application
in Radiotherapy. **IET Nanobiotechnology**, 2007,1:10-14 (Review) **SCI IF=1.884**

Bozhang Yu* , **Jianshe Yang*** , Wenxin Li. In vitro capability of carbon

nanotube-GnRH conjugates on killing prostate cancer cells.

Carbon,2007,45:1921-1927 **SCI IF=6.198**

Jian-she Yang. Dawn of treatment regimen design in clinical radiotherapy. **World J Gastroenterol**, 2007, 13:651 **SCI IF=3.318**

Zhuan-Zi WANG, Wen-Jian LI, **Jian-She YANG**, Xiao-Dong JIN, Ju-Fang WANG and Chuan-Ling GUO. Evaluation of radiosensitivity of human tumor cells after irradiation of γ -rays based on G2-chromosome aberrations. **Nuclear Science and Techniques**, 2006, 17: 268-271 **SCI IF=0.31**

Jianshe Yang, Bozhang Yu, Wenxin Li. Superoxide Functionalized Carbon Nanotubes:A New Nano-scaled Radiosensitizer. **International Conference on Nanoscience and Technology**, China 2007 1P-587

Bo-Zhang Yu, **Jian-She Yang**, Wen-Xin Li. In Vitro Capability of Multi - Walled Carbon Nanotubes Modified with Gonadotrophin Releasing Hormone on Killing Prostate Cancer. **International Conference on Nanoscience and Technology**, China 2007 5P-043

Yang Jianshe, Li Wenjian, Jing Xigang, et al. A method on the theoretical computation of the chromosome breaks in cells exposed to heavy ions. **36th COSPAR Colloquium: mutagenic consequences of the space environment**, 2006,P6:104 **ISTP**

Jian-she Yang. Premature chomosome condensation technique: A very promising approach to radiotherapy for digestive system cancers. **World J Gastroenterol**, 2006, 12:7227 **SCI IF=3.318**

JS Yang, WJ Li, XD Jin, XG Jing, CL Guo, Wei Wei. Radiobiological response of

human hepatoma and normal liver cells exposed to carbon ions generated in HIRFL.

Science in China Series G, 2006,49:702-706 **SCI IF=2.297**

Y Jianshe, L Wenjian, J Xiaodong, J Xigang, G Chuanling, W Wei, and G Qingxiang.

Survival and initial chromatid breakage in normal and tumour cells exposed in vitro to gamma rays and carbon ions at the HIRFL. **British Journal of Radiology**, 2006, 79:

518-521 **SCI IF=1.84**

Yang Jianshe, Jing Xigang, Wang Zhuanzi, Li Wenjian. A correlation between radiation sensitivity and initial chromatid breaks in cancer cell lines revealed by Calyculin A-induced premature condensation. **Central European Journal of**

Biology,2006,1: 451-462 **SCI, IF=0.84**

Yang Jianshe, Jing Xigang, Li Wenjian, Wang Zhuanzi, Zhou Guangming, Wang Jufang, DangBingrong, Gao Qingxiang, Walsh Linda . Correlation between initial chromatid damage and survival of various cell lines exposed to heavy charged

particles. **Radiation and Environmental Biophysics**,2006,45:261-266 **SCI IF=1.754**

Wang ZZ, Li WJ, Zhang H, **Yang JS**, Qiu R, Wang X. Comparison of clonogenic assay with premature chromosome condensation assay in prediction of human cell radiosensitivity. **World Journal of Gastroenterology**, 2006, 12:2601-2605 **SCI,**

IF=3.318

Yang Jianshe, Li Wenjian, Jin Xiaodong, et al. Correlation between chromosome breaks and radiosensitivity of human hepatoma cells and normal liver cells exposed to heavy ions measured by premature chromosome condensation technique. **10th**

Workshop on Heavy Charged Particles in Biology and

Medicine,.2005,6(15-19):32 Italy **ISTP**

Yang JS, Li WJ, Zhou GM, Jin XD, Xia JG, Wang JF, Wang ZZ, Guo CL, Gao QX.

Comparative study on radiosensitivity of various tumor cells and human normal liver cells. **World Journal of Gastroenterology**, 2005,11:4098-4101 SCI, IF=3.318