



CURRICULUM VITAE of Dr. WANG YONGHUA (yh_wang@nwsuaf.edu.cn)

Name: Wang Yonghua

Academic qualifications:

1993.9 - 1997.7 B.S. Dalian University of Technology, Dalian, Liaoning, China
2001.9 - 2006.7 Ph.D. Dalian Institute of Chemical Physics, Chinese Academy of Sciences, China

Previous academic positions held:

2006.8 - 2009.7 Associate professor Department of biotechnology, Dalian Ocean University, China
2009.9 - 2010.8 Visiting professor Department of Mathematics, Polytechnic University of Turin, Italy

Present academic position:

2010.9 - Professor Lab of Systems Pharmacology (<http://sm.nwsuaf.edu.cn/lsp>), Center of Bioinformatics, College of Life Science, Northwest A&F University, Yangling, China

Previous relevant research work:

Technical expertise Systems Pharmacology analysis for Traditional Chinese Medicine, miRNA systems biology, RNA dynamics, Computer-aided drug design
Research area Systems Pharmacology, Computational systems biology, Bioinformatics

Publication Records: 90 SCI Papers; Sum of the Times cited (excluding self-citation): 320; h-index: 15

Ten Representative publications in the past ten years

1. Ru J, Li P, Wang J., **Wang Y (Corresponding Author)**. TCMSP: a database of systems pharmacology for drug discovery from herbal medicines. *J CHEMINFORMATICS*, 2014 Apr, 16; 6(1):13.
2. Huang C, Zheng C, Li Y, **Wang Y (Corresponding Author)**, Lu A, Yang L, Systems Pharmacology in Drug Discovery and Therapeutic Insight for Herbal Medicines. *BRIEF BIOINFORM*, 2013, in press.
3. Liu H, Wang J, Zhou W, **Wang Y (Corresponding Author)**, Yang L, Systems Approaches and Polypharmacology for Drug Discovery from Herbal Medicines: An Example Using Licorice. *J ETHNOPHARMACOL*, 2013 Apr 19;146(3):773-93.
4. Wang X, Xu X., **Wang Y (Corresponding Author)**, Yang L, Systems pharmacology uncovers Janus functions of botanical drugs: activation of host defense system and inhibition of influenza virus replication. *INTEGR BIOL*. 2013 Jan 28; 5(2):351-71.
5. Li X, Xu X., **Wang Y (Corresponding Author)**, Yang S, A System-Level Investigation into the Mechanisms of Chinese Traditional Medicine: Compound Danshen Formula for Cardiovascular Disease Treatment. *PLoS ONE*, 2012;7(9):e43918.
6. Yu H, Chen J., **Wang Y (Corresponding Author)**. A Systematic Prediction of Multiple Drug-Target Interactions from Chemical, Genomic and Pharmacological Data. *PLoS ONE*, 2012, 7(5):e37608.
7. Xu X, Wang X, Li Y, **Wang Y (Corresponding Author)**, Yang L, A large-scale association study for nanoparticle C60 uncovers mechanisms of nanotoxicity disrupting the native conformations of DNA/RNA. *NUCLEIC ACIDS RES*, 2012 Sep; 40(16):7622-32.
8. Xu X, Li R, **Wang Y (Corresponding Author)**, Zou H, Multidrug resistance protein P-glycoprotein does not recognize nanoparticle C60: experiment and modeling. *SOFT MATTER*, 2012, 8(10): 2915-2923.
9. Ma Z, Xue Z, Zhang H, Li Y, **Wang Y (Corresponding Author)**, Local and global Effects of Mg²⁺ on Ago and miRNA-target interactions. *J Mol Mode*, 2012, 18(8):3769-3781.
10. **Wang Y (Corresponding Author)**, Li Y, Ma Z, Yang W, Ai C. Mechanism of microRNA-target interaction: molecular dynamics simulations and thermodynamics analysis. *PLoS COMPUT BIOL*, 2010, 6(7):e1000866.