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Director of the Network Center (Ministry of Education) for Collaborative Study of  
TCM Modernization, Department of Chemistry, Tsinghua University



Professor Luo graduated from Biochemical Engineering department of East China University of Science and Technology in 1969, and obtained the Master degree from Department of Chemistry of the same university in 1982. Then he joined Department of Analytical Chemistry at China Pharmaceutical University in Nanjing, as an associate professor and deputy director. In 1990, he went to Penn. State University as a visiting professor, and an associate research fellow later. He moved to Department of Chemistry, Tsinghua University in 1994, and had served successively as Deputy Director of Analytical Center, Assistant Dean of Institute of life Science and Engineering, Deputy Director of Institute of Pharmacy and Director of Modern Research Center of Traditional Chinese Medicine. During 2007-2012, Prof. Luo set up the College of Pharmacy Science, Nankai University in Tianjin, and took the position of Executive Dean of College of Pharmacy Science.

Prof. Luo has long been engaged in pharmaceutical analysis, the systems biology for traditional Chinese medicine (TCM) and modernization for TCM research. Six research monographs and more than 760 papers were published, of which 310 was indexed by Web of Science, with an H-index of 35. Prof. Luo has been authorized more than twenty-five invention patents and completed six preclinical applications of new drug. Till now, he has won twice National Award of Science & Technology Advancement and eleven provincial and ministerial Awards of Science & Technology Advancement. Professor Luo has won the title of Outstanding Returned Overseas

Scholars and enjoys special government allowances of the State Council. Over 30 important projects have been completed such as 973 Projects, 863 Projects, Science & Technology Key Program, and Major Projects of the National Natural Science Foundation of China (NSFC) as well as some international cooperation projects.

( G X F D W L R Q

1964-1969 Graduated from Biochemical Engineering Department, East China University of Science and Technology, Shanghai, China.

1979-1982 Obtain the Master degree from Department of Chemistry, East China University of Science and Technology, Shanghai, China.

3 U R I H V V L R Q D O & K U R Q R O R J \

1969-1979 Institute of pharmaceuticals of Anhui Province

1982-1990 Department of Analytical Chemistry, China Pharmaceutical University in Nanjing, Associate professor and deputy director

1990-1994 Visiting Professor and Associate Research Fellow later, Penn. State University, USA

1994-present Professor, Department of Chemistry, Tsinghua University. Served successively as Deputy Director of Analytical Center, Assistant Dean of Institute of Life Science and Engineering, Deputy Director of Institute of Pharmacy and Director of Modern Research Center for Traditional Chinese Medicine, Director of the Network Center (Ministry of Education) for Collaborative Study of TCM Modernization.

1994-1998 Visiting professor in Hongkong University, Hongkong University of Science & Technology and Hongkong Baptist University.

2007-2012 Founder and Executive Dean of the College of Pharmacy Science, Nankai University in Tianjin

7 H D F K L Q J 6 X E M H F W V

- 1) Pharmaceutical analysis
- 2) System Biology for Traditional Chinese Medicine

#### 5 H V H D U F K ) L H O G V

- 1) Pharmaceutical Analysis of "S w r k v { U c p f c t f u
- 2) System Biology for Traditional Chinese Medicine
- 3) Modernization for Traditional Chinese Medicine

#### 0 H P E H U V K L S V

- 1) Member of the first expert council of Chinese National S&T Major Project on R&D of Innovative Drugs, member of responsibility expert council of TCM
- 2) Vice President, China Medicine of Minorities Association
- 3) Chairman, Chinese Biopharmaceutical Technology Association (CBPTA)
- 4) TCM officer, Chinese Medicine Division, Department of Health, Hong Kong SAR China
- 5) Executive Member of Chinese Pharmacopoeia Commission and the Chairman of Physical and Chemical Analysis Committee
- 6) Associate Editor-in-chief of the Pharmacopoeia of P.R.China (2010-Eng.)
- 7) Member of National New Drug Approval Council of China
- 8) Associate Editor-in-chief of the journal of Chinese Traditional Patent Medicine

#### \$ Z D U G V

- 1) Two Second Prize of National Award of Science & Technology Advancement, in 1999 and 2006, respectively.
- 2) First Prize of Hebei Province Award of Science & Technology Progress in 2012  
Second Prize of Beijing Award of Science & Technology Progress in 2012  
First Prize of Shanghai Award of Science and Technology Progress in 2011;  
First Prize of Hebei Province Medicine Scientific and Technological Progress Award in 2010;  
Second Prize of Ministry of Public Security Scientific and Technological

Progress Award in 2007;

First Prize of Tianjin Award of Natural Science in 2006;

Second Prize of AQSIQ science and technology Award in 2005;

First Prize of Ministry of Education Science and Technology Progress Award in 2004;

Second Prize of Jiangsu Province Science and Technology Progress Award in 2003;

Second Prize of PLA Military Science and Technology Progress Award in 1994;

Third Prize of State Pharmaceutical Administration Science and Technology Progress Award in 1991;

Two papers (published in 2003) have been named as international top 1% papers by Essential Science Indicators<sup>SM</sup>

6 H O H F W H G 3 X E O L F D W L R Q V

0 D M R U P R Q R J U D S K V

1. / X R \* \$ Wang YM, Liang QL, Liu QF. 《Systems Biology for Traditional Chinese Medicine》 ( 512 pages , John Wiley, USA, 2012
2. / X R \* \$ Wang YM, Liang QL, Liu QF.《Systems Biology for Traditional Chinese Medicine》 ( Chinese Version, a million words, Science Press, Beijing, 2010
3. / X R \* \$ Wang YM, Liang QL. 《Fingerprints of Traditional Chinese Medicines—Quality assessment, Quality Control and Drug Discovery》 ( 0.01 million words ) , Chemical Industry Press, Beijing, 2009
4. / X R \* \$ Editor-in-Chief,《Technology for Pharmaceutical and Toxicological Analysis》 ( 0.595 million words ) , Chemical Industry Press, Beijing, 2007
5. / X R \* \$ Wang ZH, Wang YM. Construction and application of biocompatible electrodes 0.324 million words Science Press, Beijing, 2006

6. / X R \* \$ Wang YM, Chen LX, Liang QL. Capillary electrochromatography and its application in life science 0.268 million words Science Press, Beijing, 2005

5 H S U H V H Q W D W L Y H 3 D S H U V U H S U H V H Q W V W K H F R U U H Y

1. Huang M, Liang QL, Li P, Xia JF, Wang Y, Hu P, Jiang ZT, He YX, Pang LQ, Han LD, Wang YM, / X R \* \$ Biomarkers for early diagnosis of type 2 diabetic nephropathy: a study based on an integrated biomarker system. Mol. Biosyst. 2013, 9(8): 2134-2141.
2. Ren GX, Fan XM, Liang QL, Wang YM, / X R . \$ Screening and evaluation of traditional Chinese medicine by microarray expression analysis. J. Ethnopharmacol. 2013, 147(3): 564-569.
3. Liang QL, Liang XP, Wang YM, Xie YY, Zhang RL, Chen X, Gao R, Cheng YJ, Wu J, Xu QB, Xiao QZ, Li X, Lv SF, Fan XM, Zhang HY, Zhang QL, / X R \* \$ Effective components screening and anti-myocardial infarction mechanism study of the Chinese medicine NSLF6 based on "system to system" mode. J. Transl. Med. 2012, 10: 26-37.
3. Ai XN, Liang QL, Luo MN, Zhang K, Pan JM, / X R . \* \$ Controlling gas/liquid exchange using microfluidics for real-time monitoring of flagellar length in living Chlamydomonas at the single-cell level. Lab Chip 2012, 12(21): 4516-4522.
4. Cong WJ, Liang QL, Li L, Shi J, Liu QF, Feng Y, Wang YM, / X R \* \$ Metabonomic study on the cumulative cardiotoxicity of a pirarubicin liposome powder. Talanta 2012, 89: 91-98.
5. Xie YY, Luo D, Cheng YJ, Ma JF, Wang YM, Liang QL, / X R . \* \$ Steaming-induced chemical transformations and holistic quality assessment of red Ginseng derived from Panax ginseng by means of HPLC-ESI-MS/MSn-based multicomponent quantification fingerprint. J. Agric. Food Chem. 2012, 60(33): 8213-8224.
6. Xiao X, Hou YY, Du J, Liu Y, Liu YJ, Dong LY, Liang QL, Wang YM, Bai G, / X R \* \$ Determination of main categories of components in corn steep liquor by near-infrared spectroscopy and partial least-squares regression. J. Agric. Food

- Chem. 2012, 60(32): 7830-7835.
7. Liang XP, Zhang HY, Hu P, Wang YM, / X R . \* \$ Metabonomic study of Chinese medicine ShuangLong formula as an effective treatment for myocardial infarction in rats. J. Proteome Res. 2011, 10: 790-799.
  8. Zhang K, Liang QL, Ai XN, Hu P, Wang YM, X R \* . \$ Comprehensive two-dimensional manipulation of picoliter microfluidic droplets sampled from nanoliter samples. Anal. Chem. 2011, 83(20): 8029-8034.
  9. Cong WJ, Liu QF, Chen X, Gao R, Lu J, Wang YM, Luo \* G Characterization and pharmacokinetics of a novel pirarubicin liposome powder. Drug Dev. Ind. Pharm. 2010, 36(10): 1186-1194.
  10. Fan XM, Li X, Lv SF, Wang YM, Zhao YF, / X R \* . \$ Comparative proteomics research on rat MSCs differentiation induced by Shuanglong Formula. J. Ethnopharmacol. 2010, 131(3): 575-580.
  11. Zhang K, Liang QL, Ma S, Mu X, Hu P, Wang YM, / X R . \$ On-chip manipulation of continuous picoliter-volume superparamagnetic droplets using a magnetic force. Lab Chip 2009, 9 (20): 2992-2999.
  12. Ren KN, Liang QL, Mu X, / X R , \* \$ Wang YM. Miniaturized high throughput detection system for capillary array electrophoresis on chip with integrated light emitting diode array as addressed ring-shaped light source. Lab Chip 2009, 9 (5): 733-736.
  13. Mu X, Liang QL, Hu P, Ren KN, Wang YM, X R \* . \$ Laminar flow used as "liquid etch mask" in wet chemical etching to generate glass microstructures with an improved aspect ratio. Lab Chip 2009, 9 (14): 1994-1996.
  14. Zhang M, Ignatova S, Liang QL, Jun FW, Sutherland I, Wang YM, / X.R \* \$ Rapid and high-throughput purification of salvianolic acid B from Salvia miltiorrhiza Bunge by high-performance counter-current chromatography. J. Chromatogr. A 2009, 1216(18): 3869-3873.
  15. Zhang HY, / X R \* ; \$ Liang QL, Wang Y, Yang HH, Wang YM, Zheng XY, Song XM, Chen G, Zhang T, Wu JX. Neural tube defects and disturbed maternal folate and homocysteine-mediated one-carbon metabolism. Exp. Neurol. 2008,

212(2):515-521.

16. Ye NS, Chen J, / X R , \*Zhang RL, Zhao YF, Wang YM. Proteomic profiling of rat bone marrow mesenchymal stem cells induced by 5-azacytidine. *Stem Cells Dev.* 2006, 15 (5): 665-676.
17. Zhao JY, Liang QL/ X R \* , Wang YM, Zuo YJ, Jiang M, Yu GL, Zhang T. Purine metabolites in gout and asymptomatic hyperuricemia: Analysis by HPLC-electrospray tandem mass spectrometry. *Clin. Chem.* 2005, 51 (9): 1742-1744.
18. Hu P, Liang QL, / X R , \*Zhao ZZ, Jiang ZH. Multi-component HPLC fingerprinting of radix salviaemiltiorrhizae and its LC-MS-MS identification. *Chem. Pharm. Bull.* 2005, 53(5): 677-683.
19. Wang ZH, Liang QL, Wang YM, / X R . \*Carbon nanotube-intercalated graphite electrodes for simultaneous determination of dopamine and serotonin in the presence of ascorbic acid. *J. Electroanal. Chem.* 2003, 540: 129-134.
20. Wang ZH, Liu J, Liang QL, Wang YM, / X R \* . Carbon nanotube-modified electrodes for the simultaneous determination of dopamine and ascorbic acid. *Analyst* 2002, 127(5): 653-658.

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Essential Science Indicators SM top 1%

## 主要学术成果

主要学术专著：

1. / X R \* ; Wang YM, Liang QL, Liu QF.《Systems Biology for Traditional Chinese Medicine》 (512 pages) , John Wiley, USA , 2012
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代表性学术论文 \* :

1. Huang M, Liang QL, Li P, Xia JF, Wang Y, Hu P, Jiang ZT, He YX, Pang LQ, Han LD, Wang YM, / X R \* ; Biomarkers for early diagnosis of type 2 diabetic nephropathy: a study based on an integrated biomarker system. Mol. Biosyst. 2013, 9(8): 2134-2141.
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Effective components screening and anti-myocardial infarction mechanism study of the Chinese medicine NSLF6 based on "system to system" mode. J. Transl. Med. 2012, 10: 26-37.
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Metabonomic study on the cumulative cardiotoxicity of a pirarubicin liposome powder. Talanta 2012, 89: 91-98.
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- research on rat MSCs differentiation induced by Shuanglong Formula. *J. Ethnopharmacol.* 2010, 131(3): 575-580.
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