



Prof Liping Zhao got his PhD in 1989 from Nanjing Agricultural University and worked in Cornell University as visiting scholar from 1993-1995. He is currently a professor for microbiology and the director of Laboratory of Microbial Ecology and Ecogenomics in School of Life Sciences and Biotechnology, Shanghai Jiao Tong University. He is the director of the Laboratory of Nutritional Systems Biology in Shanghai Center for Systems Biomedicine. He is also the director the SJTU-Perfect (China) Joint Research Center on Microbiota and Health. He served as a Board member of the International Society for Microbial Ecology from 2006-2012. He is a current editorial board member of *FEMS Microbiology Ecology*, *Journal of Molecular Medicine*, and a senior editor of the *ISME Journal*.

His team has been applying molecular and genomic tools for systems understanding and predictive manipulation of the complex microbial communities in human and animal guts. They have published more than 30 research papers in *PNAS*, *Nature Communications*, *ISME Journal*, *AEM*, *FEMS Microbiology Ecology* etc. He also published reviews in *Nature Reviews Microbiology*, *Journal of Proteome Research*, *Molecular Aspects of Medicine* etc. He has been invited to give keynote and plenary talks in ASM general conference, ISME conference etc. His current focus is the interactions between nutrition and gut microbiota in onset and progression of chronic diseases such as obesity and diabetes, and how traditional Chinese medicine and medicinal foods may modulate this relationship for achieving preventive healthcare. The Science magazine featured a story on how he combines traditional Chinese medicine and gut microbiota study to understand and fight obesity (*Science* 336: 1248).

Publications :

1. Xiao S., Fei N., Pang X., Shen J., Wang L., Zhang B., Zhang M., Zhang X., Zhang C., Li M., Sun, L., Xue Z., Wang J., Feng J., Yan F., Zhao N., Liu J., Long W. and Zhao L. A gut microbiota-targeted dietary intervention for amelioration of chronic inflammation underlying metabolic syndrome. ***FEMS Microbiol Ecol*** 2013, DOI 10.1111/1574-6941.12228
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4. Fei N. and **Zhao L.** An opportunistic pathogen from the gut of an obese human causes obesity in germfree mice. *ISME J* 2013, **7**(4): 880–884
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7. Zhang X., Zhao Y., Zhang M., Pang X., Xu J., Kang C., Li M., Zhang C., Zhang Z., Zhang Y., Li X., Ning G. and **Zhao L.** Structural Changes of Gut Microbiota during Berberine-Mediated Prevention of Obesity and Insulin Resistance in High-Fat Diet-Fed Rats. *PLoS One* 2012, **7**(8): e42529.
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12. van Hylckama Vlieg J.E., Veiga P., Zhang C., Derrien M. and **Zhao L.** Impact of microbial transformation of food on health—from fermented foods to fermentation in the gastro-intestinal tract. *Curr Opin Biotechnol* 2011, **22** (2): 211-219 (Review)
13. Zhu J., Yin X., Yu H., **Zhao L.**, Sabour P. and Gong J. Involvement of quorum sensing and heat-stable enterotoxin a in cell damage caused by a porcine enterotoxigenic Escherichia coli

- strain. *Infect Immun* 2011, **79**(4): 1688-1695
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43. Zhang X., Yan X., Gao P., Wang L., Zhou Z. and Zhao L. Optimized sequence retrieval from single

bands of temperature gradient gel electrophoresis profiles of the amplified 16S rDNA fragments from an activated sludge system. *J Microbiol Methods* 2005, **60**(1): 1-11

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Plenary Lectures:

1. Gut microbiota-based biomarker discovery for prevention of metabolic diseases
Plenary talk in Diabetes Technology Meeting, Bethesda, November, 2010
2. Health assessment and monitoring with gut microbiota as a primary target
Plenary talk in International Human Microbiome Conference, Vancouver, March, 2011
3. Re-engineering of gut microbiota based on traditional Chinese medicinal foods for early prevention of metabolic diseases
Plenary talk in opening session of 111th annual meeting of American Society for Microbiology, New Orleans, USA, May 21, 2011
4. Microbiome-wide association studies for hunting down the obesity bugs
Plenary Talk in 14th International Symposium for Microbial Ecology, Copenhagen, Denmark, August, 19-25, 2012.

专著章节：

Zhao L, Shen J.. Functional Metagenomics and Systems Biology: understanding the human organismal complexity in disease and health. 2011. In **Metagenomics: Current Innovations and Future Trends**, D. Marco, ed. (Horizon Scientific Press) (Book chapter)