



Chen, Wei

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Areas of Expertise: Food Biotechnology and Food Microbiology

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- 2017-Present Vice president, Jiangnan University, PRC
- 2016-Present Director, International Joint Research Center for Probiotics and Gut Health, MoS&T, PRC
- 2013-Present Director, National Engineering Research Center for Function Food, MoS&T, PRC
- 2010-2016 Dean, Jiangnan University, PRC
- 2007-2010 Director, Jiangnan University, PRC
- 2005-2007 Associate Dean, Jiangnan University, PRC
- 2006-Present Professor, Jiangnan University PRC
- 2003-2006 Associate Professor, Jiangnan University, PRC
- 1998-2003 Ph.D., Jiangnan University, PRC
- 1995-2003 Lecturer, Southern Yangtze University, PRC
- 1992-1995 M.E., Southern Yangtze University, PRC
- 1988-1992 Assistant Professor of Lecturer, Huai-yin Food and Technology, PRC
- 1984-1988 B.E., Southern Yangtze University, PRC

Research of Special Interest

Prof. Chen is mainly engaged in the exploration of food microbial resources and functional analysis of probiotics and intestinal microbiota.

1. The physiological analysis of probiotics

Prof. Chen screened probiotics from Chinese traditional fermented food and the gut of healthy volunteers. The genomic background and physiological characteristics of these strains were investigated by genomic, transcriptomic and proteomic analysis. The probiotic effects of the strains were also evaluated in cell and animal models and clinical trials.

2. The industrial application of probiotics

The industrial application properties including safety, fermentation characteristics and freeze dry characteristics were evaluated. New products such as probiotic-fermented yogurt, soybean milk, fruit juice and probiotic-included dietary supplements were developed.

3. The cross-talk of probiotics and gut microbiota

Prof. Chen also analyzed the structure and function of gut microbiota of people with different age, dietary patterns and physiological conditions. Moreover, the cross-talk of probiotics and gut microbiota was evaluated to

understand the regulation of probiotics on microbiota and gut health.

Publications *Correspondence Author

Prof. Chen has published 170 SCI papers in the recent five years. Some of them are listed as follows:

Yang B, Gao H, Stanton C, Ross RP, Zhang H, Chen YQ., Chen HQ*, Chen W*. Bacterial conjugated linoleic acid production and their applications[J]. *Progress in Lipid Research*, 2017, 688:26-36.

Yu LL, Zhai QX, Tian FW, Liu XM, Wang G, Zhao JX, Zhang H, Narbad A*, Chen W*. *Lactobacillus plantarum* CCFM639 can prevent aluminium-induced neural injuries and abnormal behaviour in mice[J]. *Journal of Functional Foods*, 2017, 30: 142-150.

Zhai Q, Xiao Y, Zhao J, Tian FW, Zhang H, Narbad A, Chen W*. Identification of key proteins and pathways in cadmium tolerance of *Lactobacillus plantarum* strains by proteomic analysis[J]. *Sci Rep*, 2017, 7(1): 1182.

Hu LJ, Wang LL, Lu WW, Zhao JX, Zhang H, Chen W*. Selection, Characterization and Interaction Studies of a DNA Aptamer for the Detection of *Bifidobacterium bifidum*[J]. *International journal of molecular sciences*, 2017,18(5): 883.

Zhai QX, Tian FW, Zhao JX, Zhang H, Narbad A, Chen W*. Oral Administration of Probiotics Inhibits Absorption of the Heavy Metal Cadmium by Protecting the Intestinal Barrier[J]. *Appl Environ Microbiol*, 2016, 82(14): 4429-4440.

Hang F, Wang QB, Hong Q, Liu PY, Wu ZJ, Liu ZM, Zhang H, Chen W*. Purification and characterization of a novel milk-clotting metalloproteinase from *Paenibacillus* sp. BD3526.[J]. *International Journal of Biological Macromolecules*, 2016, 85: 547-554.

Mao BY, Li DY, Ai CQ, Zhao JX, Zhang H, Chen W*. Lactulose differently modulates the composition of luminal and mucosal microbiota in C57BL/6J mice[J]. *Journal of Agricultural & Food Chemistry*, 2016, 64(31): 6240-6247.

Zhao N, Zhang CC, Yang Q, Guo Z, Yang B, Lu WW, Li DY, Tian FW, Liu XM, Zhang H, Chen W*. Selection of Taste Markers Related to Lactic Acid Bacteria Microflora Metabolism for Chinese Traditional Paocai: A GC-MS-based Metabolomics Approach[J]. *J Agric Food Chem*, 2016, 64(11): 2415-2422.

Zhang JC, Guo Z, Xue ZS, Sun ZH, Zhang MH, Wang LF, Wang GY, Wang F, Xu J, Cao HF, Xu HY, Lv Q, Zhong Z, Chen YF, Qimuge S, Menghe B, Zheng Y, Zhao LP, Chen W, Zhang HP. A phylo-functional core of gut microbiota in healthy young Chinese cohorts across lifestyles, geography and ethnicities[J]. *The ISME journal*, 2015, 9(9): 1979-1990.

Mao BY, Li DY, Zhao JX, Liu XM, Gu ZN, Chen YQ, Zhang H*, Chen W*. Metagenomic Insights into the Effects of Fructo-oligosaccharides (FOS) on the Composition of Fecal Microbiota in Mice[J]. *Journal of Agricultural and Food Chemistry*, 2015, 63(3): 856-863

Zhai QX, Yin RJ, Yu LL, Wang G, Tian FW, Yu RP, Zhao JX, Liu XM, Chen YQ, Zhang H, Chen W*. Screening of lactic acid bacteria with potential protective effects against cadmium toxicity[J]. *Food Control*, 2015, 54: 23-30.

Chen P, Zhang QX, Dang H, Liu XM, Tian FW, Zhao JX, Chen YQ, Zhang H, Chen W*. Oral administration of *Lactobacillus rhamnosus* CCFM0528 improves glucose tolerance and cytokine secretion in high-fat-fed, streptozotocin-induced type 2 diabetic mice[J]. *Journal of Functional Foods*, 2014, 10: 318-326.

Mousa, A, Liu XM, Chen YQ, Zhang H, Chen W*. Evaluation of physicochemical, textural, microbiological and sensory characteristics in set yogurt reinforced by microencapsulated *Bifidobacterium bifidum* F-35[J]. *International journal of food science & technology*, 2014, 49(7): 1673-1679.

Zhai Q, Wang G, Zhao JX, Liu XM, Tian FW, Zhang H, Chen W. Protective effects of *Lactobacillus plantarum* CCFM8610 against acute cadmium toxicity in mice[J]. *Applied and environmental microbiology*, 2013, 79(5): 1508-1515.

Achievements and Honors

Research Awards

- 2016 Individual Award, the 9th Tan Jiazhen Life Science Industrialization Award
- 2016 Individual Award, Jiangsu Patent Inventor Award
- 2015 Gold Award, the 16th Chinese Patent
- 2015 National Prize of Labor Model
- 2014 First Class Award, Science and Technology progress of Shanghai Province
- 2014 First Class Award, Science and Technology Progress of National Light Industry Federation
- 2014 National Excellent Scientists and Engineers
- 2013 Second Class Award, Science and Technology Progress of Shanghai Province
- 2013 Second Class Award, Science and Technology Progress of National Light Industry Federation
- 2013 Cheung Kong Scholar Chair Professor, Ministry of Education
- 2012 First Class Award, Science and Technology Progress of National Chamber of Commerce
- 2012 Specially-Appointed Professor, Jiangsu Province
- 2012 Outstanding Achievement Award, Jiangsu Province
- 2011 First Class Award, Science and Technology Progress of Shanghai Province
- 2011 Distinguished Young Scientists of National Science Funds
- 2010 Second Class Award, Science and Technology Progress of National Light Industry Federation
- 2009 Second Class Award, National Science and Technology progress, State Council of China
- 2009 Second Class Award, Science and Technology invention of Shanghai Province
- 2009 High-level Talent Scholar, Jiangsu Province
- 2007 First Class Award, Science and Technology Progress of Ministry of Education
- 2006 New Century Excellent Talents, Ministry of Education