

Jiang, Bo

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Education

- 1989-1993 PhD, Food Science, Jiangnan University, Wuxi, China
- 1986-1989 Master, Cereal Science, Jiangnan University, Wuxi, China
- 1978-1982 Bachelor, Inorganic Chemistry, Nanjing University, Nanjing, China

Professional Experiences

- 2002-Present Professor, Jiangnan University, Wuxi China
- 2006 Visiting Scholar, Ohio State University, Columbus, USA
- 2004 Visiting Scholar, University of Guelph, Guelph, Canada
- 1996-2002 Associate Professor, Jiangnan University, Wuxi, China
- 1993-1996 Assistant Professor, Jiangnan University, Wuxi, China

Honors, awards, recognition, and leadership

• Honors, awards, and recognitions

- ✓ ISNFF Science and Service Merit Award Recipients, 2015
- ✓ Natural Science Award (MOE), second prize, 2013
- ✓ Provincial Science & Technology Award (Shandong), first prize, 2012
- Excellence Article Award of Chinese Institute of Food Science & Technology, 2007, 2009, 2011
- ✓ Innovation Award of Chinese Institute of Food Science & Technology, second prize, 2010
- ✓ Outstanding Member of North American JNU Alumni & Friends Association, 2006-2008
- ✓ National Science and Technology Award, second prize, 2007
- ✓ Innovation and Invention Award of China National Light Industry Council, 2003, 2007
- ✓ Outstanding Technology Award for Young & Middle-aged, Chinese Institute of Food Science and Technology, 2004
- ✓ Provincial Teaching Award of Higher Education (Jiangsu), 2004

• Professional leadership

a. Administration:

- ✓ 2007-2016. *Executive Director*, State Key Laboratory of Food Science and Technology, Jiangnan University. Responsible for research management and academic activity organization, such as international conferences and symposia.
- ✓ 2005-2007. *Dean*, School of International Education, Jiangnan University. Responsible for international student education, exchange programs and organization of international visits including the IFT annual meetings
- ✓ 2002-2005. *Associate Dean*, School of Food Science and Technology, Jiangnan University. Responsible for research management and international exchange and collaboration
- ✓ 2002-Present. *Professor*, Food Science, Jiangnan University. Research interests in food

enzymology and enzymatic conversion of functional food ingredients

b. National/international committees and professional journals:

- ✓ Institute of Food Technologist, Fellow, Since 2017
- ✓ Executive Editor since 2007, and Associate Editor from 2003, Journal of the Science of Food and Agriculture
- ✓ Receiving Editor, Food Bioscience, since 2013
- ✓ Scientific Committee member, International Union of Food Science and Technology (IUFOST), 2012 congress
- ✓ International Advisory Board member, ISNFF
- ✓ Editorial Board member, Chinese Journals including: Food Science; Science and Technology of Food Industry; and Modern Food Science & Technology
- ✓ Board member, Chinese Institute of Food Science and Technology, 2002-2013
- ✓ Board member, Chinese Nutrition Society, 2008-2013
- ✓ General Secretary of Novel Food Specialty Committee, China Food Additives Association (CFAA) since 2009
- ✓ Board of Director, North American JNU Alumni & Friends Association, 2006-2013
- ✓ Advisory Council member, Evaluation of Functional Foods, Ministry of Health, China

c. Training programs developed:

- ✓ How to write and submit to scientific journals, September 13, 2012, Wuxi
- ✓ Postgraduate Summer School of Food & Biotechnology, July 4-19, 2009, Wuxi
- ✓ Training Course of Biotechnology Application in the Food Industries for Developing Countries, October 11, 2007, Beijing

Grants

- ✓ 2019-2022, National Natural Science Foundation of China, 31871745
- ✓ 2018-2021, National Key Research and Development Plan, 2017YFC1600902
- ✓ 2014-2017, National Natural Science Foundation of China, 31717188
- ✓ 2013-2017, 863 Program, 2013AA102102
- ✓ 2013-2017, Key Projects of the Natural Science Foundation of China, 31230057
- ✓ 2010-2012, National Natural Science Foundation of China, 20976073
- ✓ 2006-2010, 863 Program, 2006AA10Z334
- ✓ 2005-2008, Key Projects of the Natural Science Foundation of China, 20436020

Selected Publications (from more than 240 publications)

(1) Jiufu Qin, Yongjin J. Zhou, Anastasia Krivoruchko, Mingtao Huang, Lifang Liu, Sakda Khoomrung, Verena Siewers, **Bo Jiang***, Jens Nielsen*, Modular pathway rewiring of *Saccharomyces cerevisiae* enables high-level production of L-ornithine, *Nature Communications*, 2015, 6:9224

(2) Abdalla M, Hassanin HAM, Yao XL, Iqbal MW, Karrar E, **Bo Jiang***. Genetic and biochemical characterization of thermophilic beta-cyclodextrin glucanotransferase from *Gracilibacillus alcaliphilus* SK51.001. *Journal of the Science of Food and Agriculture*, 2020. DOI: 10.1002/jsfa.10960

(3) Meng Q, Tian XY, **Bo Jiang***, Zhou LC, Chen JJ, Zhang T. Characterization and enhanced

extracellular overexpression of a new salt-activated alginate lyase. *Journal of the Science of Food and Agriculture*, 2021. DOI: 10.1002/jsfa.11161

(4) Abdalla M, Hassanin HAM, Yao XL, Iqbal MW, Karrar E, **Bo Jiang***. Genetic and biochemical characterization of thermophilic beta-cyclodextrin glucanotransferase from *Gracilibacillus alcaliphilus* SK51.001. *Journal of the Science of Food and Agriculture*, 2020. DOI: 10.1002/jsfa.10960

(5) Dai YW, Zhang JX, Zhang T, Chen JJ, Hassanin HAM, **Bo Jiang***. Characteristics of a fructose 6-phosphate 4-epimerase from *Caldilinea aerophila* DSM 14535 and its application for biosynthesis of tagatose. *Enzyme and Microbial Technology*, 2020. DOI: 10.1016/j.enzmictec.2020.109594

(6) Zhang JX, Dai YW, **Bo Jiang***, Zhang T, Chen JJ. Dual-enzyme co-immobilization for the one-pot production of glucose 6-phosphate from maltodextrin. *Biochemical Engineering Journal*, 2020. DOI: 10.3390/foods10010185

(7) Cai X, Seidl I, Mu WM, Zhang T, Stressler T, Fischer L*, **Bo Jiang***. Characterization of a recombinant trehalose synthase from *Arthrobac ter chlorophenicus* and its unique kinetics indicating a substrate cooperativity. *Applied Biochemistry Biotechnology*, 2019, 187 (4):1255-1271.

(8) Weiwei He, **Bo Jiang***, Wanmeng Mu, and Tao Zhang, Production of d-Allulose with d-Psicose 3-Epimerase Expressed and Displayed on the Surface of *Bacillus subtilis* Spores. *Journal of Agricultural and Food Chemistry*, 2016. 64(38): p. 7201-7207.

(9) Weiwei He, **Bo Jiang***, Wanmeng Mu, and Tao Zhang, Food-Grade Expression of d-Psicose 3-Epimerase with Tandem Repeat Genes in *Bacillus subtilis*. *Journal of Agricultural and Food Chemistry*, 2016. 64(28): p. 5701-5707.

(10) Weiwei He, **Bo Jiang***, Wanmeng Mu, and Tao Zhang, Construction of a Food Grade Recombinant *Bacillus subtilis* Based on Replicative Plasmids with an Auxotrophic Marker for Biotransformation of d-Fructose to d-Allulose. *Journal of Agricultural and Food Chemistry*, 2016. 64(16): p. 3243-3250.

(11) Xing Hu, Yaning Shi, Peng Zhang, Ming Miao, Tao Zhang, **Bo Jiang***, D-Mannose: Properties, production, and applications: An overview, *Comprehensive Reviews in Food Science and Food Safety*, 2016, 15:773-785.

(12) Kai Huang, Tao Zhang, **Bo Jiang***, Xin Yan, Wanmeng Mu, Ming Miao, Overproduction of *Rummeliibacillus pycnus* arginase with multi-copy insertion of the arg (R.pyc) cassette into the *Bacillus subtilis* chromosome, *Applied Microbiology and Biotechnology*, 2017, 101:6039-6048.

(13) Yungao Li, Ming Miao, Miao Liu, Xiangyin Chen, **Bo Jiang***, Biao Feng, Enhancing the thermal stability of inulin fructotransferase with high hydrostatic pressure, *International Journal of Biological Macromolecules*, 2015, 74:171-178.

(14) Rongrong Zhan, Wanmeng Mu, **Bo Jiang***, Liuming Zhou, Tao Zhang, Efficient secretion of inulin fructotransferase in *Pichia pastoris* using the formaldehyde dehydrogenase 1 promoter, *Journal of Industrial Microbiology & Biotechnology*, 2014, 41:1783-1791.

(15) Abubakr Musa, Ming Miao, Tao Zhang, **Bo Jiang***, Biotransformation of stevioside by *Leuconostoc citreum* SK24.002 alternansucrase acceptor reaction, *Food Chemistry*, 2014, 146:23-29.

(16) Yungao Li, Ming Miao, Miao Liu, **Bo Jiang***, Tao Zhang, Xiangyin Chen, Sorbitol counteracts high hydrostatic pressure-induced denaturation of inulin fructotransferase, *International Journal of Biological Macromolecules*, 2014, 70:251-256.