


# CURRICULUM VITAE

Personal Information			
Name	Nan PENG	Gender	
Position Title	Professor		
Working Department			
Email	nanp@mail.hzau.edu.cn		
Address			
Tel	027-87281267	Fax	
			
Photo			
Research Interest			
<p>Mainly engaged in beneficial microorganism screening, engineering and applications. The main research directions include: (1) studying the mechanism of CRISPR-Cas system; (2) screening, engineering and functional characterization of beneficial microorganisms; (3) studying the production technologies for beneficial microorganisms.</p>			
Professional Memberships			
Other Roles			
Education & Working Experience			
<p>Education:</p> <p>2000.09-2004.06, Huazhong Agricultural University, Bachelor of Bioengineering</p> <p>2004.09-2009.12, Huazhong Agricultural University, Ph. D</p> <p>2008.02-2009.11, University of Copenhagen, Visiting Ph. D student</p> <p>Professional Experience:</p> <p>2010.06-2012.12, College of Life Science and Technology, Huazhong Agricultural</p>			

University, Lecturer

2013.01-2017.12: College of Life Science and Technology, Huazhong Agricultural University, Associate Professor

2017.01 to now: College of Life Science and Technology, Huazhong Agricultural University, Doctoral supervisor

2017.04 to now: PI of State Key Laboratory of Agricultural Microbiology

2018.01 to now: College of Life Science and Technology, Huazhong Agricultural University, Professor

## Publications

1. Li Y\*, Peng N\*. (2019) Endogenous CRISPR-Cas system-based genome editing and antimicrobials: review and prospects, *Front Microbiol*, 25;10:2471.
2. Zhang ZF, Pan S, Liu T, Li Y and Peng N\*. (2019) Cas4 nucleases can effect specific integration of CRISPR spacers. *J Bacteriol*, 201, e00747-00718.
3. Liu T, Liu Z, Ye Q, Pan S, Wang, X, Li Y, Peng W, Liang Y, She Q, Peng N\* (2017) Coupling transcriptional activation of CRISPR–Cas system and DNA repair genes by Csa3a in *Sulfolobus islandicus*. *Nucleic Acids Res.* 45(15): 8978-8992.
4. Peng N, Han W, Li Y, Liang Y, She Q. (2017) Genetic technologies for extremely thermophilic organisms of *Sulfolobus* genus, the only genetically tractable crenarchaea. *Sci China Life Sci.* 60: 1-16.
5. Ren X, Wang J, Yu H, Peng C, Hu J, Ruan Z, Zhao S, Liang YX and Peng N\*. (2016) Anaerobic and sequential aerobic production of high-titer ethanol and single cell protein from NaOH-pretreated corn stover by a genome shuffling-modified *Saccharomyces cerevisiae* strain. *Bioresource Technol.* 218: 623-630.
6. Hu J, Lin Y, Zhang Z, Xiang T, Mei Y, Zhao S, Liang YX and Peng N\*. (2016) High-titer lactic acid production by *Lactobacillus pentosus* FL0421 from corn stover using fed-batch simultaneous saccharification and fermentation. *Bioresource Technol.* 214: 74-80.

7. Li Y, Pan S, Zhang Y, Ren M, Feng M, Peng N, Chen L, Liang Y, She Q\* (2016) Harnessing Type I and Type III CRISPR-Cas systems for genome editing, *Nucleic Acids Res.* 29;44(4):e34.
8. Liu T, Li Y, Wang X, Ye Q, Li H, Liang XY, She Q and Peng N\* (2015) Transcriptional regulator-mediated activation of adaptation genes triggers CRISPR de novo spacer acquisition. *Nucleic Acids Res.* 43 (2): 1044-1055.
9. Hu J, Zhang Z, Lin Y, Zhao S, Mei Y, Liang Y and Peng N\*. (2015) High-titer lactic acid production from NaOH-pretreated corn stover by *Bacillus coagulans* LA204 using fed-batch simultaneous saccharification and fermentation under non-sterile condition. *Bioresource Technol.* 182: 251-257.
10. Ao X, Li Y, Wang F, Feng M, Lin Y, Zhao S, Liang YX\* and Peng N\* (2013) *Sulfolobus* Initiator Element is An Important Contributor to Promoter Strength. *J Bacteriol*, 195(22):5216-5222.