**CURRICULUM VITAE**

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| **Personal Information** | | | | |  |
| Name | Chen Peng | Gender | Female | |
| Position Title | | Associate professor | | |
| Working Department | | Biomass and Bioenergy Research Center  Faculty of Plant Science and Technology | | |
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| **Research Interest** | | | | | |
| * Transfer RNA nucleoside modification, function of tRNA modification genes in Arabidopsis and Rice * Populus transgenic, using poplar as woody biomass resource for bioethanol conversion. * Rapeseed biomass to bioethanol conversion. | | | | | |
| **Professional Memberships** | | | | | |
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| **Other Roles** | | | | | |
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| **Education & Working Experience** | | | | | |
| **1991.9-1996.6 Bachelor Study**  College of Life Science, Peking University  **1996.9-2004.10** **PhD study**  Umea University, Sweden  Main subject: tRNA modification in *Samonella typhimurium*  PhD thesis:  Function of wobble nucleoside modifications in tRNAs of Salmonella enterica Serovar Typhimurium. ( Supervisor：Prof. Glenn R. Bjork) | | | | | |
| **Publications** | | | | | |
| 1. **Journal Papers**   1. Loss of a Conserved tRNA Anticodon Modification Perturbs Plant immunity. Vicente Ramírez, Beatriz González, Ana López, M Jose Castellóa, M José Gila, Bo Zheng, Peng Chen and Pablo Vera. ***PLoS*** ***Genetics***, PGENETICS-D-15-00566R1. 2015 2. Steam explosion distinctively enhances biomass enzymatic saccharification of cotton stalks by largely reducing cellulose polymerization degree in G. barbadense and G. hirsutum. Yu Huang; Xiaoyang Wei; Shiguang Zhou; Mingyong Liu; Yuanyuan Tu; Ao Li; **Peng Chen**; Yanting Wang; Xuewen Zhang; Hongzhong Tai; Liangcai Peng; Tao Xia. ***Bioresource Technology,*** 2015(accepted) 3. Biomass Enzymatic Saccharification Is Determined by the Non-KOH-Extractable Wall Polymer Features That Predominately Affect Cellulose Crystallinity in Corn. Jun Jia, Bin Yu, Leiming Wu, Hongwu Wang, Zhiliang Wu, Ming Li, Pengyan Huang, Shengqiu Feng, **Peng Chen**, Yonglian Zheng, Liangcai Peng\*. ***PLoS One***. 2014 9(9):e108449. 4. Identification of important tRNA modified nucleosides and modification genes important for abiotic stress response in rice . Youmei Wang, Xukai Li, Rui Zhang, Xiaohuan Jin and **Peng Chen**\*. ***Nucleic*** ***Acid Res***. 2014, (Submitted Manucript) 5. Xia Yan, Xicun Dong, Wen Zhang, Hengxia Yin, Honglang Xiao, **Peng Chen** and Xiao-Fei Ma\*. Reference Gene Selection for Quantitative Real-time PCR Normalization in Reaumuria soongorica. ***PLoS ONE,*** 2014, 9(8):e104124. doi: 10.1371/journal.pone.0104124. 6. Wang J, Kucukoglu M, Zhang L, **Chen P**, Decker D, Nilsson O, Jones B, Sandberg G, Zheng B. The Arabidopsis LRR-RLK, PXC1, is a regulator of secondary wall formation correlated with the TDIF-PXY/TDR-WOX4 signaling pathway. ***BMC Plant Biol.*** 2013 Jul 1; 13:94. IF=4.35 7. Yan X, Jin XH, Wang YM, Zeng B, Chen P. Recent Advances in the Role of the Elongator Complex in Plant Physiology and tRNA Modification: A Review. ***Journal of Integrative Agriculture***. Advanced Online Publication: 2013 Doi: 10.1016/S2095-3119(13)60524-9 8. Chai G, Hu R, Zhang D, Qi G, Zuo R, Cao Y, **Chen P**, Kong Y, Zhou G. Comprehensive Analysis of CCCH Zinc Finger Family in Poplar (Populus trichocarpa) ***BMC Genomics.*** 2012 Jun 18; 13:253. 9. **Chen P**, Jäger G, Zheng B. Transfer RNA modifications and genes for modifying enzymes inArabidopsis thaliana. ***BMC Plant Biology*** 2010 Sep 14; 10:201. 10. Nasvall SJ, **Chen P**, Bjork GR. The wobble hypothesis revisited: uridine-5-oxyacetic acid is critical for reading of G-ending codons. ***RNA***. 2007 Dec; 13(12):2151-64. 11. **Chen P**, Crain PF, Nasvall SJ, Pomerantz SC, Bjork GR. A "gain of function" mutation in a proteinmediates production of novel modified nucleosides. ***EMBO J.*** 2005 May 18; 24(10):1842-51. 12. Nasvall SJ, **Chen P**, Bjork GR. The modified wobble nucleoside uridine-5-oxyacetic acid in tRNAPro(cmo5UGG) promotes reading of all four proline codons in vivo. ***RNA****.* 2004 Oct;10(10):1662- 13. **Peng Chen**, Qian Q, Zhang S, Isaksson LA, Bjork GR. A cytosolic tRNA with an unmodifiedadenosine in the wobble position reads a codon ending with the non-complementary nucleoside cytidine. ***J Mol Biol****.*2002 Apr 5; 317(4):481-92. 14. Bjork GR, Durand JM, Hagervall TG, Leipuviene R, Lundgren HK, Nilsson K, **Chen P**, Qian Q, Urbonavicius J. Transfer RNA modification: influence on translational frameshifting and metabolism. ***FEBS Lett****.*1999 Jun 4; 452(1-2):47-51. Review. 15. Lin LIU, Bin YU, Pengyan HUANG, Jun JIA, Hua ZHAO, Junhua PENG, Peng CHEN, Liangcai PENG. 芒不同基因型愈伤组织诱导及分化的差异. Chinese Bulletin of Botany 2013, 48 (2): 192–198.   2. **Book Chapter**  1) **Chen P** and Peng LC. Chapter 6-The diversity of lignocellulosic biomass resources and theirevaluations for biofuels and chemicals. In: Biological Conversion of Biomass for Fuels and Chemicals: Explorations from Natural Biomass Utilization Systems. Royal Society of Chemistry, ISBN: 978-1-84973-424-0 eISBN: 978-1-84973-473-8, DOI:10.1039/9781849734738 | | | | | |
| **Additional Information** | | | | | |
| **CONFERENCE PARTICIPATION**   1. The 18th tRNA symposium, 2000, Cambridge, UK   Abstract: Chen P. and Björk, G.R. Structural requirements for the enzyme catalyzing formation of uridine-5-oxyacetic acid (cmo5U) in tRNA from Salmonella typhimurium.   1. The 55th Ribosome symposium, Cold Spring Harbour, 2001, CSL, USA   Abstract: Chen P. and Björk, G.R. A dominant mutation in a gene of Salmonella typhimurium, which encodes a protein, suppresses a +1 frameshift mutation.   1. The 20th tRNA meeting: the tRNA world, 2003, Banz, Germany   Abstract: Chen P., Nasvall SJ. and Björk, G.R. Study on the function of uridine-5-oxyacetic acid (cmo5U) present on tRNAs of Salmonella typhimurium.   1. The 18th International Arabidopsis Conference, 2007, Beijing, China 2. The 2010 CSPB(Chinese Society of Plant Biology) meeting, 2010, Nankai Univeristy, Tianjin, China Abstract: Function of transfer RNA modifications in plant development 3. The 3rd international symposium of bioenergy and biotechnology, 2012, HZAU, Wuhan, China Oral Presentation: Lignin dual effects on biomass enzymatic digestibility in grasses 4. The 14th CSPB meeting, 2013, Nanjing, China   Abstract：Identification of genes involved in transfer RNA nucleoside methylations in rice   1. The 8th National RNA Symposium, 2014, Hefei, China   Abstract: Comparative analysis of genes involved in tRNA nucleoside modifications in Arabidopsis and Rice   1. The 11th CSPB meeting, 2014, Guizhou, China 2. The 2015 CSPB meeting, 2015, Changchun, China | | | | | |