

Zhang Changwei



Areas of Research

Chinese cabbage breeding, gene editing, and molecular identification of plant resistant virus genes.

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Research Interests

Development of gene editing in Chinese cabbage

Collection and evaluation of Chinese cabbage germplasm resources

Molecular isolation of host factors and natural resistance genes

Development of novel antiviral strategies through biotechnology

Education Background

Bachelor: College of Horticulture, Shandong Agricultural University

Master: College of Horticulture, Nanjing Agricultural University

Doctor: College of Horticulture, Nanjing Agricultural University

Work experience

01/2013~Now, Assistant Professor, College of Horticulture, Nanjing Agricultural University

03/2011~12/2013, Lecturer, College of Horticulture, Nanjing Agricultural University

07/2004~09/2006, Assistant Researcher, Vegetable institute of Jiangsu academy for agriculture science.

Selected Publication

- (1) **Zhang Chang-wei**, Wei Yan-ping, Xiao Dong, Gao Li-wei, Lyu Shan-wu, Hou Xi-lin(*), Bouuema, Guusje, Transcriptomic and proteomic analyses provide new insights into the regulation mechanism of low-temperature-induced leafy head formation in Chinese cabbage, *Journal of Proteomics*, 2016.7.20, 144: 1-10
 - (2) Wei Taiyun(#), **Zhang Changwei**(#), Hou Xilin, Sanfacon Helene, Wang Aiming(*), The SNARE Protein Syp71 Is Essential for Turnip Mosaic Virus Infection by Mediating Fusion of Virus-Induced Vesicles with Chloroplasts, *PLoS Pathogens*, 2013.5.01, 9 (5) : 1-11
 - (3) **Changwei Zhang**, Shanwu Lyu, Liwei Gao, Xiaoming Song, Yanxiao Li, Xilin Hou. Genome-Wide Identification, Classification, and Expression Analysis of SNARE Genes in Chinese Cabbage (*Brassica rapa* ssp. *pekinensis*) Infected by Turnip mosaic virus. *Plant Molecular Biology Reporter*, <https://doi.org/10.1007/s11105-017-1060-0>
 - (4) **Zhang Changwei**, Qi Li, Hou Xilin, Shi Gongjun, Zhang Jingyi. Differential gene expression analysis of a new Ogura CMS line and its maintainer in non-heading Chinese cabbage by cDNA-AFLP. *Acta Physiol Plant*, 2010, 32:781 - 787
 - (5) Li-wei Gao(#), Shan-wu Lyu(#), Jun Tang, Dao-yun Zhou, Guusje Bonnema, Dong Xiao, Xi-lin Hou, **Chang-wei Zhang** (*), Genome-wide analysis of auxin transport genes identifies the hormone responsive patterns associated with leafy head formation in Chinese cabbage, *Scientific Reports*, 2017.2.7, (7) : 1-13(2) (3)
 - (6) Fangfang Li, **Changwei Zhang**, Yinzi Li, Guanwei Wu, Xilin Hou, Xueping Zhou, Aiming Wang. Beclin1 restricts RNA virus infection in plants through suppression and degradation of the viral polymerase. *Nature Communications*, 2018, DOI: 10.1038/s41467-018-03658-2 .
 - (7) Wei Taiyun, **Zhang Changwei** , Hong Jian, Xiong Ruyi, Kristin D. Kasschau, Zhou Xueping, James C. Carrington, Aiming Wang(*) , Formation of Complexes at Plasmodesmata for Potyvirus Intercellular Movement Is Mediated by the Viral Protein P3N-PIPO, *PLoS Pathogens*, 2010.6.01, 6 (6)
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