

CURRICULUM VITAE

Personal Information

Name	Cheng Han	Gender	Male
Position Title	Professor		
Institute	Rubber Research Institute, Chinese Academy of Tropical Agricultural Science		
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Research Interest

My group mainly engage in molecular characterization of germplasm resources and molecular breeding for cold resistance in tropical crops. We utilize GBS or WGR strategies, and GWAS methods to characterize rubber tree germplasm resources, to identify the genetic loci related to important agronomic traits, i.e. yield, growth and resistance. We also clone essential genes involved in the regulation of these traits. Finally, we develop genome selection models to assist shorten the breeding program in rubber tree.

Education & Working Experience

EDUCATION

1. 2009/9 ~ 2012/12, *The Chinese University of HongKong, Biology, Doctor of Philosophy*
2. 2000/09 ~ 2003/06, *Zhejiang University, Genetics, Master of Science.*
3. 1996/09 ~ 2000/07, *Anhui Normal University, Biology Science, Bachelor of Science.*

POSITION

1. 2017.01 ~ Present *Professor, Rubber Research Institute, Chinese Academy of Tropical Agricultural Sciences, China*
2. 2012.1 ~ 2016.12 *Associate Professor Rubber Research Institute, Chinese Academy of Tropical Agricultural Sciences, China*
3. 2006.5 ~ 2011.12 *Research Associate Professor Rubber Research Institute, Chinese Academy of Tropical Agricultural Sciences, China*
4. 2003.7 ~ 2006.5 *Research Assistant Rubber Research Institute, Chinese Academy of Tropical Agricultural Sciences, China*

Representative Result

Grants:

1. 2020.12-2023.12, Inovative Group Grants of Hainan Province “The development of genome selection technique in rubber tree” (320CXTD443), RMB 300,000
2. 2019.05-2022.12, Sub-project of National Key Research and Development Project “The Inovation of High Efficient Breeding Technology and Varieties in Tropical Crops”2019YFD1001102-04, The development of early selection technology for high yield germplasm in rubber tree. RMB 2076 700
3. 2019.1-2022.12, NSFC, Genetic Structure and Evolution of Rubber Tree Wickham Germplasm (No. 31870646), RMB 590 000.
4. 2019.01-2020.12, International Cooperation and Exchanges project the Ministry of Agriculture and Rural Affairs, BARTP-02-CH, RMB 2280 000
5. 2014~2016, NSFC, The Identification of SnoRNAs in *Hevea brasiliensis* and their Roles in Latex Regeneration. (grant No.: 31301072) RMB 230, 000.

Representative publications:

1. **Cheng, H., Liang, Q., Chen, X., Zhang, Y., Qiao, F., and Guo, D. (2019a).** *Hydrogen peroxide facilitates Arabidopsis seedling establishment by interacting with light signalling pathway in the dark.* *Plant, Cell & Environment* 42, 1302–1317. doi:10.1111/pce.13482.
2. **Cheng, H., Chen, X., Fang, J., An, Z., Hu, Y., and Huang, H. (2018).** *Comparative transcriptome analysis reveals an early gene expression profile that contributes to cold resistance in Hevea brasiliensis (the Para rubber tree).* *Tree Physiol* 38, 1409–1423. doi:10.1093/treephys/tpy014.
3. **Cheng, H.* , Chen, X., Zhu, J., and Huang, H.* (2016a).** *Overexpression of a Hevea brasiliensis ErbB-3 Binding protein 1 Gene Increases Drought Tolerance and Organ Size in Arabidopsis.* *Front. Plant Sci.* 7.
4. **Cheng, H., Cai, H., Fu, H., An, Z., Fang, J., Hu, Y., Guo, D., and Huang, H.* (2015).** *Functional Characterization of Hevea brasiliensis CRT/DRE Binding Factor 1 Gene Revealed Regulation Potential in the CBF Pathway of Tropical Perennial Tree.* *PLoS ONE* 10:e0137634.
5. **Cheng, H., Zhang, Q., and Guo, D.* (2013b).** *Genes that Respond to H2O2 Are Also Evoked Under Light in Arabidopsis.* *Mol. Plant* 6:226–228.