

Heng Chen

China • Male • 02/13/1997

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EDUCATION

University of Chinese Academy of Sciences	[MSc • Plant genetics and breeding]	2019.09-2022.06
Dissertation: Major gene mapping and analysis for isoflavone accumulation in soybean (<i>Glycine max</i> L.)		
Supervisor: Prof. Qiuying Zhang		
Nanchang University	[BEng • Bioengineering]	2014.09-2018.06
Thesis: Plant design for annual output of 500 tons of blueberry high calcium yogurt		
Supervisor: Prof. Min Li		
Nanchang University	[BSc • Finance]	2015.09-2018.06
Thesis: The value investment analysis of 2016 gold plate		
Supervisor: Prof. Yongmei Zeng		



EXPERIENCE

Bio-Protocol	[Academic Editing Intern]	2022.05-Present
<ul style="list-style-type: none">Collected, integrated and processed the submissionIntegrated and reviewed the discussion (Q&A part)Wrote and edited academic content for Bio-101		
National Institute of Biological Sciences	[Research Assistant (at He lab)]	2022.06-Present
<ul style="list-style-type: none">Processed and analyzed sequencing dataCarried out research related to histone modifications modulating flowering time in Arabidopsis		



HONORS

- Bachelor**
First class scholarship (2015) • Second class scholarship (2016) • Outstanding youth volunteer award (2016)
- Master**
Outstanding graduate student award (2021) • Merit student award (2022) • Excellent dissertation award (2022)



FIELD & INTERESTS

- Field**
QTL mapping • Transcriptome • DNA methylation • Histone modifications • Isoflavone
- Interests**
Gene editing • RNA secondary structure • Abiotic stress responses • Photomorphosis • Domestication



SKILLS

- Physiological Experiments**
HPLC • GC • Amino-acid Analyzer • Grain Analyzer • et al.
- Molecular Experiments**
qRT-PCR • Yeast Two-hybrid • Ectopic Expression • Western Blot • ChIP • et al.
- Biostatistics & Bioinformatics**
R (WGCNA, DEseq2, R/qtl, et al.) • Python (Bioconductor) • SPSS Statistic • Meta-analysis • et al.



CERTIFICATES

TOEFL	[English]	2022.07
<ul style="list-style-type: none"> Total: 108 (Speaking: 24 Writing: 25) 		
Certificate of Academic Writing (with honor)	[Academic Writing]	<u>H6B6A9DJH2YA</u>
<ul style="list-style-type: none"> Writing in the Sciences (Stanford • Online) 		
Professional Certificate of Excel and R	[Data Analysis]	<u>5T6KV2SBD6ZA</u>
<ul style="list-style-type: none"> Data Analytics with Excel and R Professional Certificate (IBM • Online) 		
Certificate of Bioinformatics	[Bioinformatics]	Ongoing
<ul style="list-style-type: none"> Bioinformatics Specialization (UCSD • Online) 		
Certificate of Systems Biology	[Bioinformatics]	Ongoing
<ul style="list-style-type: none"> Systems Biology and Biotechnology Specialization (ISMMS • Online) 		



PUBLICATIONS

- **Heng Chen**, Xiangwen Pan, Feifei Wang, Changkai Liu, Xue Wang, Yansheng Li, Qiuying Zhang* (2021). **Molecular Mechanisms of Isoflavone Biosynthesis and Regulation in Soybean: A Review**. Soils and Crops. 10(02): 126-142. (in Chinese with English abstract)
- **Heng Chen**, Xiangwen Pan, Feifei Wang, Changkai Liu, Xue Wang, Yansheng Li, Qiuying Zhang* (2021). **Novel QTL and Meta-QTL Mapping for Major Quality Traits in Soybean**. Frontiers in Plant Science, 12(2773): 774270.
- **Heng Chen**, Qiuying Zhang*, Xiaobing Liu (2022). **Nutritional and Health Benefits of Soybean to Human Immunity** (Book Section). Rishi BehlEd. Plants for Immunity (in press)
- **Heng Chen**, Changkai Liu, Yansheng Li, Xue Wang, Xiangwen Pan, Feifei Wang, Qiuying Zhang* (2022). **Developmental Dynamic Transcriptome and Systematic Analysis Reveal the Major Genes Underlying Isoflavone Accumulation in Soybean**. Journal of Experimental Botany (under review)



REFERENCES

Zhang, Qiuying	[Professor of IGA, CAS]
<ul style="list-style-type: none"> Email: zhangqiuying@iga.ac.cn 	
Liu, Xiaobing	[Professor of IGA, CAS]
<ul style="list-style-type: none"> Email: liuxb@iga.ac.cn 	
He, Xinjian	[Associate Investigator of NIBS]
<ul style="list-style-type: none"> Email: hexinjian@nibs.ac.cn 	