

# CV: Sun Linhan

College of Agriculture and Biotechnology

China Agricultural University

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## EDUCATION

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2011-present **Bachelor of Agriculture** in Department of Horticulture

College of Agriculture and Biotechnology

China Agricultural University

Rank:1/116 Overall GPA:3.87/4.0

Thesis: NOT DECIDED YET

Advisor: Zhang Xiaolan

## Research Experience

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### Xiaolan Zhang Lab

Apr.2013-present **Undergraduate Research Intern**

- Currently working with PhD candidate Li Jiang on the function validation of Cucumber( *Cucumis sativus* L.) FRUITFULL (CsFUL) gene
- Obtain the clone of the *Arabidopsis* FRUITFULL (FUL) promoter and conduct ectopic CsFUL expression in *Arabidopsis* with pAtSUP::CsFUL and 35S::CsFUL system
- Perform subcellular localization of CsFUL1/2 gene using Green Fluorescent Protein (GFP) and Red Fluorescent Protein (RFP)
- Construct vectors for yeast double hybrid assay and bimolecular fluorescence complementation (BiFC) assay in order to clarify the interactions between CsFUL1/2 genes and other important genes involved in floral patterning and fruit development of cucumber
- Synthesis of cDNA from different organs of transgenic cucumber plants and use Real time Quantitative PCR (q-RT PCR) to elucidate the expression pattern of CsFUL1/2 gene in cucumber

- Alignment and phylogenetic analysis of FUL-like genes

## **Lusheng Zhang Lab**

May 2013-March 2014 **Undergraduate Research Program (URP) of CAB,CAU**

- Project: Influence of excessive nitrogen stress on continuous-cropping strawberries (*Fragaria ananassa*)
- Main author of the project concluding report and the sole presenter of project oral defense
- Continuous cropping soil environment simulation and excessive nitrogen gradient treatment
- Conduct assay of diverse parameters of photosynthesis using portable photosynthesis system
- Perform assay of POD and PPO enzyme (two major enzymes with close relationship with systemic acquired resistance of plants) activity.
- Investigate the occurrence and severity of common strawberry diseases

## **Professional Trainings and Activities**

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### **Plant Stress Center(PSC) Summer School, Shanghai Institute of Biological Sciences,CAS**

July 2014

- A 11-day undergraduate training program in plant sciences. 30 members are selected from about 100 applicants from universities all over China.
- Lectures on plant stress biology, plant hormone signaling, plant epigenetics, plant genomics, transcriptomes and proteomics, bioinformatics and legume seed biology
- Lab work session of a total of 20 hours in Jiankang Zhu's lab and learned about *Arabidopsis* phenotype screen of epimutants and genome editing techniques (TALEN and CRISPER/Cas9)

### **Shanghai Institute of Plant Physiology and Ecology(SIPPE) Summer School, Shanghai Institute of Biological Sciences,CAS**

August 2014

- A 10-day undergraduate training program in plant sciences with 40 senior members, selected universities all over China.
- Lectures on plant hormone signaling, plant development, plant genomics, bioinformatics, small RNA research, plant pathology and plant interaction with microbes and insects.
- Visit to 8 labs ranging from fruit development to media insect biology

# Awards and Honors

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**National Scholarship** 2012,2013(Top 1%,nationwide)

**First Prize Scholarship** 2012,2013,2014(Top 1%)

**Merit Student of China Agricultural University** 2012,2013

## Skills

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### ***English Proficiency:***

TOEFL iBT: 108 (reading 30, listening 29, speaking 22, writing 27)

GRE general test: Verbal 165, Quantitative 164, Analytical Writing 4.0

### ***Lab Skills***

gene cloning, transformation of Arabidopsis, q-RT-PCR, Alignment and phylogenetic analysis, design of in-situ hybridization probes, screen of Arabidopsis plants, SDS-PAGE, western blot, use of portable photosynthesis system, enzyme activity assay

### ***Computer Skills:***

Statistics: R language, SPSS

Documentation: LaTeX

## Extracurricular Activities

June 2012 Intern of Little Donkey Organic Farm, Beijing

2012 Bronze Prize, 7th Beijing "Challenge Cup" for Business Planning Contest

2012 Model Individual, Social Practice Project of China Agricultural University

2013 Special Prize, 2012 National English Contest for College Students

2014 Ambassador Program of China Agricultural University, Team 7

2013 Beijing Marathon, 5km marathon

2015(anticipated) Dalian Marathon, Half marathon