XX X

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Work Experience

2021.03 – present XXX (Position name)
XXX Company

Education

2013.09 – 2020.12 **Ph.D.,** Advised by Prof. XX X
College of Life Sciences, XX University, China
Major: Cell Biology, GPA: 3.72

2019.10 - 2020.01 **Ph.D. (Visiting student),** Advised by Prof. XX X
College of Biochemistry, XX University, New Zealand

2009.09 - 2013.07 **B.S.**
College of Life Sciences, XX University, China
Major: Biological Sciences

Research Experience

2017.8 – 2020.12 **Project: XXXXX……(Project name)**

A striking yellowish stunted plant was discovered as an off-target event while I was creating mutant of *PTOX* gene by XXX system. After XXXXXXXXXXXXXXXXX, I found the yellowish mutant is *XXXXXXXXX* with harboring XXXXXXXXX protein, then we name it *XXX*. It was reported that *XXX*. Mutant *XXX* is an irreplaceable mutant material to XXX. XXXXXXXXXXXX..

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Chloroplast chaperonin complex, CPN60, is essential for the folding of a wide range of nascent and denatured proteins. Divergent compositions and functions of multiple CPN60

complexes are poorly understood. First, yeast two hybrid and BiFC assays showed that XXXXXXXXXXXXXXXXX, illustrating that XXXXXXXXXX. Then, crossing *XXX* with *XXX*, *XXX*, or *XXX* demonstrated that XXXXXXXXXXXX; however, expressing *XXXXXXXXXX* in *XXX* complemented its abnormal phenotype. Moreover, we found the presence of XXXX resulted in *XXXXXXXXXXX*. We also proposed a predicted structure of the XXXXX.

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In the end, transcriptome and proteome analyses on *XXX* and wild type showed that XXXXXX, but XXXXXXXXXXX, which is according to XXXXXX, an XXXXXX. In addition, with the XXXX assay, we presumed that XXXXXXXXXXXX.

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2019.10 - 2020.1
Visiting Student

Project: XXXXXX.

To investigate XXX, I created *XXX* single mutant *and XXX* triple mutant during that time, while the function of these mutant was unfinished due to the limited time.

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To analyze XXX, I took over the experiment of a graduated student and performed BN-PAGE for mutants (both in *XXX* single mutant and *XXX* and *XXX* double mutant). The BN-PAGE were then performed immunoblot against XXXX antibodies. The result showed that XXX, indicating XXX.

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—XXX University, XXX, New Zealand. Supervisor: Prof. XXX

2015.11 - 2017.10 **Project: XXXX**

To develop an XXX method for XXX, I adopted XXX system, a XXX, with *XXX* as the reporter gene. The XXX system has a great potential in XXX by PCR, which greatly simplifies the laborious work of XXX. I constructed XXX system with XXX and introduced it into *Arabidopsis*. At T1 generation, XXX. After XXX, XXX. I further XXXXXXXXXX. Based on our experience, I established a standard and reliable protocol XXXXX. I conclude that *XXXXXX*. I propose that it could be applied to other genes in *Arabidopsis*, and it might have the potential to XXX as well.

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2014.9 - 2016.12 **Project: *XXXXXX***

There are 17 immunophilin proteins in *Arabidopsis thaliana* chloroplast, which are widely in various physiological activities of cells. Among them, XXX are known to participate in the assembly and stability of PSII; XXX are subunits of the NDH complex; XXX responds to the stress response of plants. The other immunophilin proteins remain largely unknown, I focused on one of these chloroplast proteins, XXX.

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- **Analyzing crystal structure of XXX**

After predicting the full length coding sequence of XXX by I-TASSER program (*https://zhanglab.ccmb.med.umich.edu/I-TASSER/*), I found XXX has a very special structure, harboring a long columnar N-terminal structure with a hook on the top. To further understand the structure, We planned to analyze the XXX crystal structure by X-ray.

Unexpectedly, the mature protein cannot be extracted because it is unstable in liquid solution. Then I expressed N-terminal and C-terminal protein in *E. coli*., respectively, and made crystal followed by using X-ray to analyze the crystal structure. Since the N-terminal domain is still unstable, I only got the crystal structure of the C-terminal.

— XXX University . Supervisor: Prof.

- **Creating XXX XXX**

There is no XXX. In XXX, the XXX technology were widely used to XXX. We adopted XXX to XXX and generated XXX, displaying wild-type like phenotype. I was interested in XXX, so I turned to focus on XXX XXX in *Arabidopsis*.

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Research Interests

Molecular Biology | Genetics | Plant Science (这里应多写，我这里写的不够丰富，且没有详细描述)

Technical Expertise

Molecular and Cell Biology:	Map Based Cloning; CRISPR/Cas9 Technology; Intact Chloroplast Isolation; SDS/BN-PAGE; Co-IP assay; Pull-down Assay; Protein Expression, purification and crystallization; Immunoblot; Antibody Preparation and purification; Yeast Two Hybrid; BiFC Assay; Confocal Microscopy; (q)RT-PCR; Tissue Culture; Protoplast Extraction; DNA/RNA Extraction; Competent Cell Preparation.
Computer:	ClustalW, Adobe Photoshop, IGV, MeV, PyMOL.

Publications

- **XX. X**, XX., X . (2021) XXXXXXXXXXXXXXXXXXX. *Plant Physiology*. (*Under Review*)

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- XX, X., XX, X.X., **XX, X** et al. (2021) XXXXXXXXXXXXXXXXXXXXX. *Photosynthesis Research.*

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- XX. X., XX X, …**XX. X.** et al. (2021) XXXXXXXXXXXXXXX. Journal of Plant Physiology.XXX

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- **XX, X.**, Zhao, M. et al. (2019) XXXXXXXX. *Acta Physiologiae Plantarum*, XXXX.

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Participated Grants

- **Title**: XXXXX…(XXX). 2016-2017

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Funding: Natural Science Special Fund of XXX Educational Committee

Honors and Awards

2014-2018	**XXX**
	College of Life Sciences, XXX University, XXX, Beijing, China
2017.4	**The first prize**
	XXX Conference, Beijing, China
2015.10	**Excellence award**
	"XXX" program, Beijing, China
2013.7	**Outstanding senior thesis (top 4%)**
	XXX University, Beijing, China

Campus Activities

2010.5 - 2010.7	**XXX**
	XXX Mountain Biology Field Comprehensive Practice Base, XXX Province, China
	• Identifying and classifying the wild plant species
	• Collecting leaf samples and making specimens
2018.6 / 2019.4	**Conference Volunteer for Registration**
	3rd *Molecular Plant* International Symposium, Xi'an, China
	National Symposium on photosynthesis

Referees

Dr. XX X **Professor, Supervisor of Ph.D. Degree**
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Dr. XX X **Associate Professor, Associate Supervisor of Ph.D. Degree**
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Dr. XX X **Professor, Supervisor in XXX University**
Department of Biochemistry, XXX University, New Zealand
XXX, XXX, New Zealand
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