

# Pei Chenyu



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**Present Research Area: Phylogenetics / Evolutionary biology**

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## Education

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**Undergraduate: Zhejiang University - College of life sciences**

09/2020-Present

Major: Biology

**GPA(latest): 3.56/4.00**

Main core courses:

- Molecular Biology & Experiment (92); Advanced Biochemical (91); Biogeography and paleoecology(92).
- Python Programming (93).
- English Lexicology(91).

## Research Experience

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**Student Research Training Program:**

**Phylogenetic analysis of Commelinaceae based on the transcriptome.**

06/2022-05/2023

Main works:

- Sampling and transcriptome sequencing.
- Quality control, assembly and CDS gene predicting of NGS data.
- Extract chloroplast protein-coding genes from the cleaned data.
- Identification of orthologous single-copy nuclear gene.
- Based on nuclear and plastid genes, conduct phylogenetic analysis by concatenation and coalescence.
- Construct the phylogenetic tree of Commelinaceae.

**Independent experiment in courses:**

Subcellular localization of OsSPX1 gene and its interaction with OsPHR2 gene

04/2022-06/2022

Membrane localization and endocytosis of Fpr1 receptor and recruitment of  $\beta$ -arrestins.

04/2023

## Skills and Certificates

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- Good knowledge of phylogenetic analysis and basic molecular biology techniques.
- Good command of processing NGS data: Quality control, Assembling, Annotation.
- Skilled in the basic programming of Python and R.
- CET-4: 637.
- Daily reading habits of literature in research fields.

## Social Practice Experience

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**Yangtze River Delta four honorary college joint teaching group for Yinchuan**

08/2021-09/2021

**Biology and Music Teacher**

- Zhejiang University summer college students' social practice excellent team

## Interest

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- Chorus: Member of Zhejiang University Wenqin Choir, participating in the high-level art performance activities of college students.
- Piano.