

Pei Chenyu



Present Research Area: Phylogenetics / Evolutionary biology

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Education

Undergraduate: Zhejiang University - College of life sciences

09/2020-Present

Major: Biology

GPA(latest): 3.54/4.00

Main core courses:

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

Research Experience

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 β -arrestins.

04/2023

Skills and Certificates

- 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

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

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