

Peng Zhang

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Personal information

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Personal Summary

My research aims to reveal how the diverse *Dmrt* genes are involved in the sex development of the Chinese mitten crab, *Eriocheir sinensis*. And, my work is grounded in precise analysis of transcriptomic data along with critical verification of molecular experiments. I'm interested in the alluring sex development mechanisms, which have already exhibited some hints of law in the animal kingdom. While many specific issues are still in vague, especially the alternative splicing based sex regulating mechanisms of the *Dsx* homologs. Proficiency in data processing and lab works grant me eligibility for further exploration.

Education

M.Sc in Agriculture | Jul 2020 - present Ningbo University

B.Sc in Agriculture | Sept 2016 - Jun 2020 Tianjin Agricultural University

Technical Skillset

Molecular lab works (RT-qPCR, RNAi and histological section)

Bioinformatics (Linux, Perl and R)

Data visualization (R packages such as ggplot2)

Peer Reviewed Publications

Yang, Y.Y., **Zhang, P.**, Cui, Z.X., Bao, C.C. (2021). Bone morphogenetic protein 2 is involved in oocyte maturation through an autocrine/paracrine pathway in *Scylla paramamosain*. *Front. Mar. Sci.*

Yang, Y.Y., Xu, Y.F., **Zhang, P.**, Cui, Z.X., Bao, C.C. (2021). Comparative genomic and transcriptomic analyses of CHHs and their putative receptors in *Scylla paramamosain*, *Portunus trituberculatus*, and *Eriocheir sinensis*. *Front. Mar. Sci.*

Zhang, P., Yang, Y.Y., Feng, T.Y., Xu, Y.F., Cui, Z.X. (2022). Genome-wide identification of *Dmrt* gene family in the Chinese mitten crab, *Eriocheir sinensis* (*Provisional name*) (*Under preparation*).