

Huihui Li

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Education

2023-present Ph.D. studies, Sun Yat-sen University

Master's degree Sun Yat-sen University

Bachelor's degree Guizhou University

Research interests

Telomere length variation, variant repeats, and DNA methylation; viral pangenomics and papillomavirus evolution; bioinformatics methods for long-read sequencing.

Selected publications

First- and co-first-author work. Preprints are indicated explicitly.

Huihui Li, Congying Chen, Ludong Yang, et al.
Multidimensional telomere diversity and inheritance at individual and population scales. *bioRxiv*, 2026. *Preprint*.
[doi:10.64898/2026.08.19.745664](https://doi.org/10.64898/2026.08.19.745664)

Huihui Li, Jingtao Chen, Xinxin Zhang, et al.
Super-pangenome analysis of 3562 human and animal papillomavirus isolates illuminates their genome and pathogenicity evolution. *bioRxiv*, 2025. *Preprint*.
[doi:10.1101/2025.07.20.664904](https://doi.org/10.1101/2025.07.20.664904)

Huihui Li, Mingzhe Xie, Yan Wang, Ludong Yang, Zhi Xie, Hongwei Wang.
riboCIRC: a comprehensive database of translatable circRNAs. *Genome Biology*, 2021, 22:79.
[doi:10.1186/s13059-021-02300-7](https://doi.org/10.1186/s13059-021-02300-7)

Open-source software

TeloXplorer - chromosome-end-resolved telomere analysis for long-read sequencing data. Profiles telomere length, variant repeats, and DNA methylation.

github.com/hhui/TeloXplorer