

令和7年度 京都大学化学研究所 スーパーコンピュータシステム 利用報告書

巨大ウイルス翻訳機構研究
Giant virus translation mechanism analysis

京都大学 化学研究所 バイオインフォマティクスセンター 化学生命科学領域 張瑞軒

研究成果概要

In the past year, I finished full analysis of project “Giant virus translation mechanism analysis”, which includes built machine learning model for sequencing bias correction and gene expression analysis using Ribo-Seq data. This result has been published in the following paper with acknowledgement. In addition, this achievement has been presented at the following two conferences, Aquatic Virus Workshop 2025 and Giant Virus Biology Symposium 2025.

発表論文(謝辞あり)

Zhang, Ruixuan, et al. "A giant virus forms a specialized subcellular environment within its amoeba host for efficient translation." *Nature Microbiology* (2026): 1-13.