

群馬パース大学大学院
保健科学研究科 保健科学専攻 博士後期課程
2026 年度追加募集

【英 語 (50 分 100 点) 】

〔問題〕

貴方が今後行いたい研究内容を 200 単語程度で述べて。

【解答例】

I have interested in the viral genome evolution. Thus, I have studied the molecular evolution of the fusion protein (*F*) gene in human respiratory syncytial virus using various bioinformatics technics. In this study, I showed that the time-scaled phylogenetic tree indicated that the HRSV F gene diverged from the bovine respiratory syncytial virus gene approximately 600 years ago. Moreover, a common ancestor of HRSV-A and -B diverged about 300 years ago. The genetic identities of the strains were high. We also could show about some amino acid substitutions ere observed in the structural model. Furthermore, 4 epitopes were estimated. However, these did not correspond to the neutralization sites of the F protein. Based on these results, we concluded that the HRSV-B F gene is highly conserved, as is the F protein of HRSV-A. In addition, our prediction of B-cell epitopes did not show that the reaction sites may be recognized as an epitope during naturally occurring infections. To deeply study the theme, I wish to enter the graduate school of your university and continue research. (175 words)

【出題の意図】

アドミッションポリシーに基づき、自らの研究テーマと研究活動の展望について英語で論述できる程度の語学力を備えているか確認します。