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Title: Within-Host Evolution of Virus Variants during Chronic Infection with Novel GII.P26-GII.26 Norovirus

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Within-Host Evolution of Virus Variants during Chronic Infection with Novel GII.P26-GII.26 Norovirus

Running Head: Chronic Infection with Novel GII.P26-GII.26 Norovirus

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Highlights

- Novel norovirus GII.P26 and GII.26 genotypes are confirmed.
- The first near complete GII.P26-GII.26 norovirus genome is provided.
- New viral phenotypes occurred predominantly under negative selection.
- Within-host evolution of p22 and of the N-terminal arm of VP1 was enhanced.

Abstract

Background: Noroviruses are a leading cause of acute gastroenteritis in all age groups. They generally cause a rapidly self-limiting illness. However, chronic norovirus diarrheal disease occurs in immunocompromised individuals, and is accompanied by persistent shedding of infectious norovirus in stool.

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