

New SARS-CoV-2 variants accumulate positive electric residues in the crucial regions of spike glycoprotein S

Piotr Pawłowski¹

¹IBB PAN

April 05, 2024

Abstract

In the monthly reported by the European Centre for Disease Prevention and Control virus variants, the increasing tendency in the number of positively loaded residues was observed. The formal charge of 34 SARS-CoV-2 lineages since September 2020 to June 2021 was analyzed. The point mutations or small insertions were considered in the crucial for viral infection regions of the spike glycoprotein (S). The most frequently observed were positive mutations, especially D614G and E484K, located in the region of S1/S2 junction, and in the receptor binding domain (RBD), respectively.

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