

TRON CoVigator
Reveals Evolution of
Spike-glycoprotein
Mutations in
Covid-19 Virus

**Products and Solutions** 

2nd Gen Intel® Xeon® Scalable processors Intel® Server System R1000WF Family Intel® SSD D3-S4610 Series Translational Oncology at the University Medical Center of the Johannes Gutenberg University Mainz (TRON) is a biopharmaceutical research organization pursuing new diagnostics and drugs for the treatment of cancer and other diseases. TRON applied its expertise in cancer immuno-biology research to the Covid-19 pandemic by analyzing hundreds of thousands of SARS-CoV-2 genome samples for variants in its spike protein. To carry out the gene sequence analysis tasks, TRON needed to extend its computational capacity. They acquired Intel® Server System nodes built with 2nd Gen Intel Xeon® Scalable processors to run their CoVigator genome analysis pipelines. The new cluster allowed them to analyze nearly 2 million virus genomes and over 30,000 virus genome sequencing datasets, discovering many variants of the spike protein.<sup>1</sup>

**Industry**Biotechnology

Organization Size 51-200

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