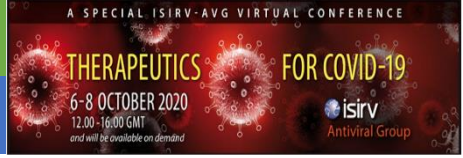

Establishment of a novel real time PCR method to detect live SARS-CoV-2 in clinical samples

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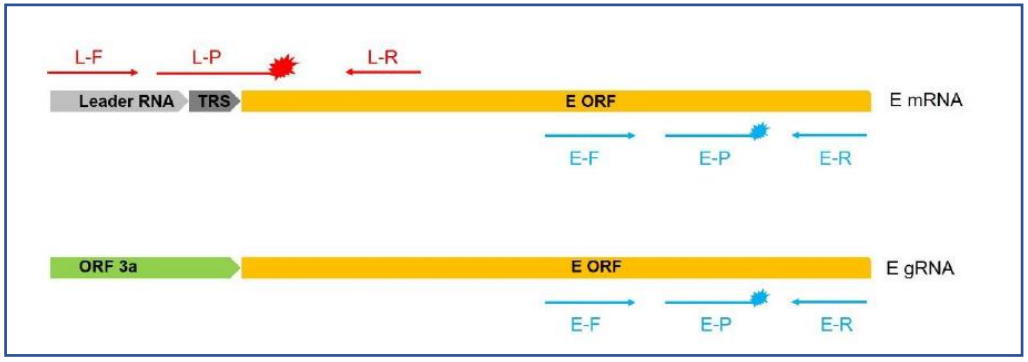
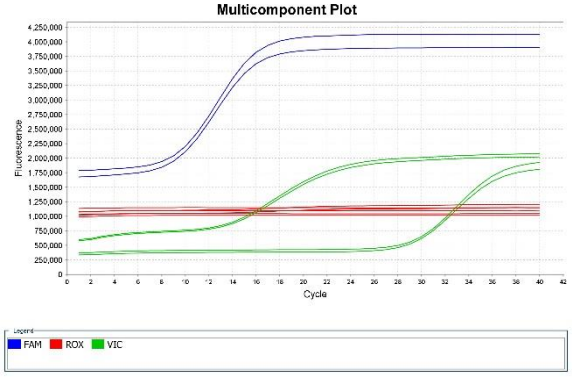
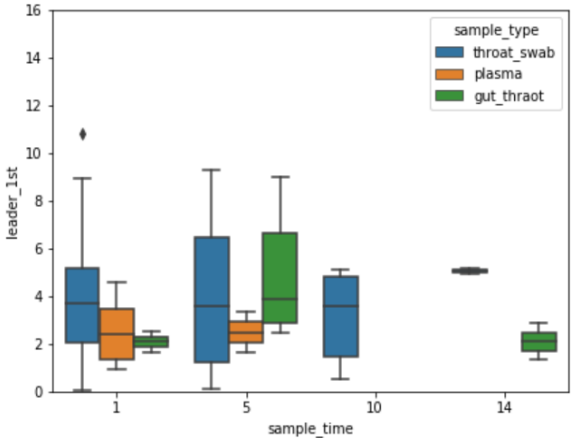
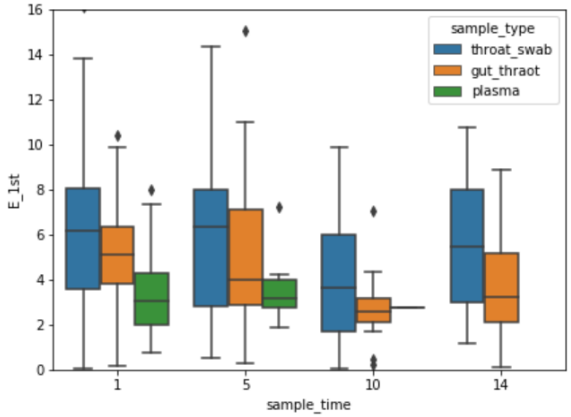


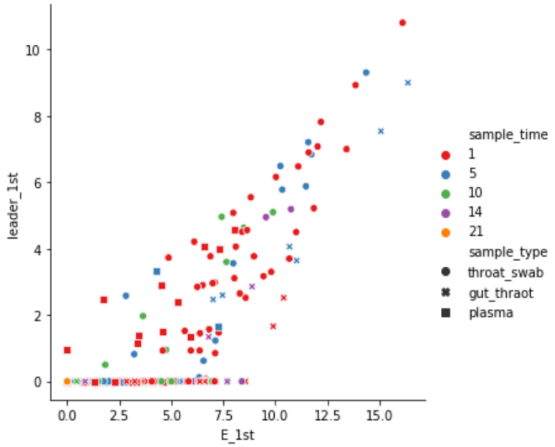


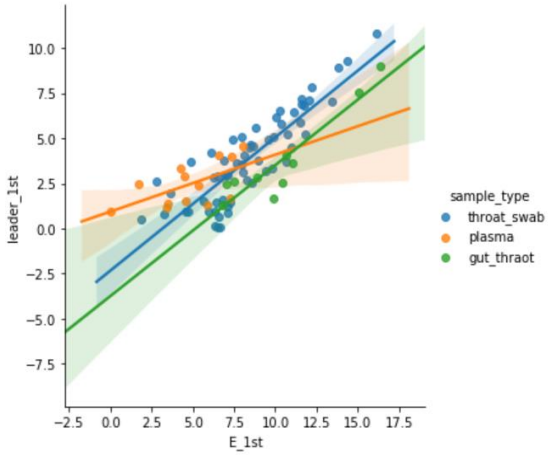
Live SARS-CoV-2 transcribed mRNA which contain a leader sequence. We designed primer and probe tarageting the leader RNA region of E gene. We used this probes to test throat swabs, fecal sample, and plasma from COVID-19 patients.

Results and conclusions









- Both E gene and Leader RNA load declined as the disease developing.
- Leader RNA and genome RNA load show similar load dynamics
- Throat swab, fecal samples, and plasma all have leader RNA detected. Plasma has no Leader RNA detected at the last two time points.

No conflict of interest to disclose