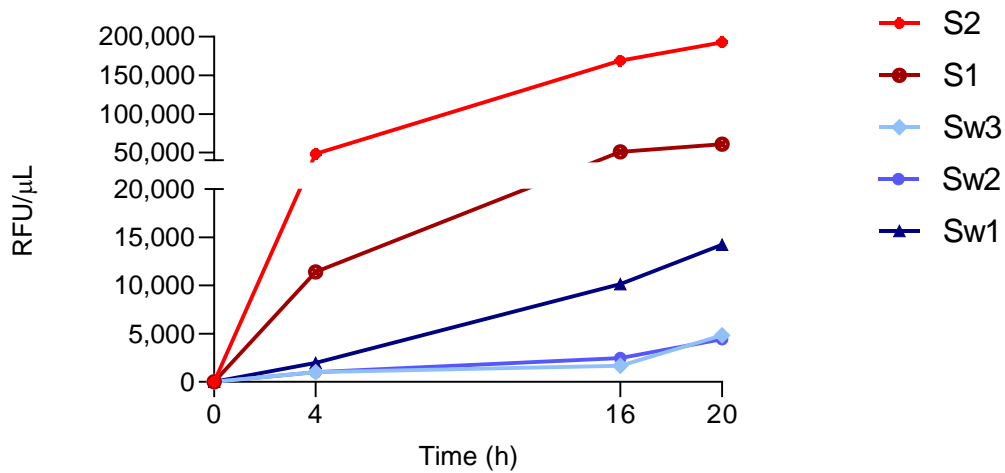
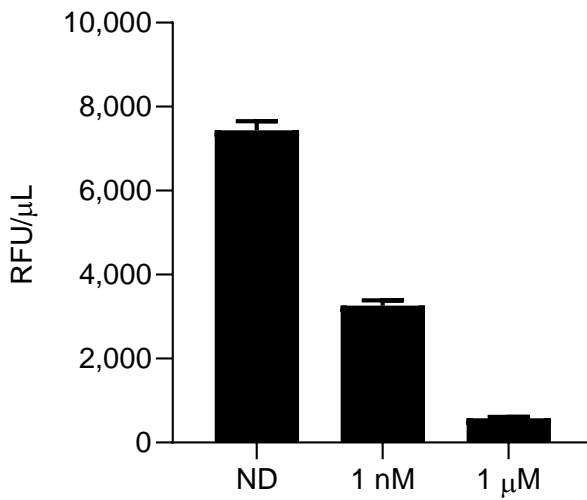


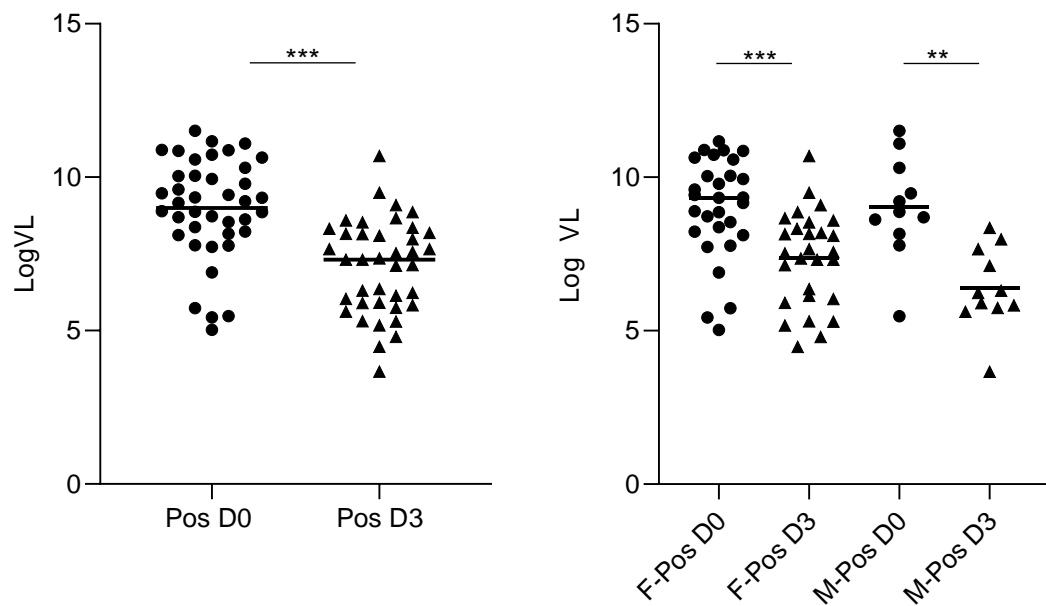
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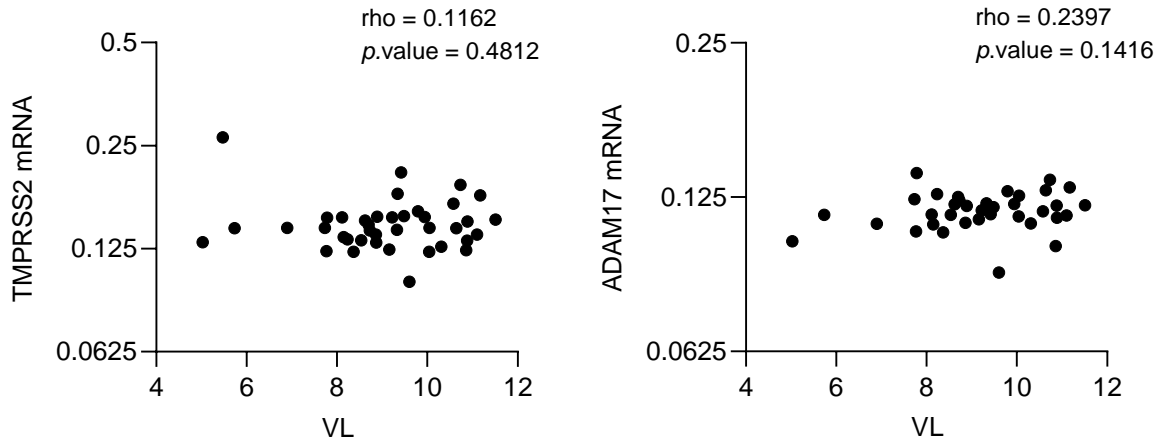
B



Supplementary Figure S1. Setting up enzymatic ACE2 activity. **(A)** Time course of soluble ACE2 activity in serum and nasopharyngeal swaps samples. Results are expressed as RFU per microliter of sample. Serum sample (S1 and S2); nasopharyngeal swabs (Sw1, Sw2 and Sw3) **(B)** ACE2 enzymatic activity in nasopharyngeal swabs is blocked by the specific inhibitor, MLN-4760 at 1 nM and 1 μM. ND; no drug. Results are expressed as RFU per microliter after 18h-reaction.



Supplementary Figure S2. Viral load in SARS-Cov-2 positive individuals. Right panel: Viral load (Log VL) at day0 and day3 of recruitment. Left panel: Sex-stratified viral load. Data are shown as mean \pm SEM and analyzed by Mann-Whitney U test, ** $p < 0.01$, *** $p < 0.001$.



Supplementary Figure S3. Correlation of gene expression of ACE2 shedding-related enzymes and SARS-CoV-2 viral load overtime. Left panel: Correlation of TMPRSS2 gene with viral load (Log VL). Right panel: Correlation of ADAM17 gene with viral load (Log VL). Linear correlation (Spearman) ρ and p -values are shown.