Supplementary Information and Supplementary Figure Legends

**The aging whole blood transcriptome reveals a potential role of FASLG in COVID-19**

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**Running-title:** SARS-CoV interaction in aged blood

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**Figure S1.** Heatmap of the whole blood samples distributed by age after PPI virus-host interaction prediction.Data showing the mean expression of differentially expressed genes, normalized by the trimmed mean of M-values (TMM) and visualized as Z-score. Two factors (A and B) were used for age clustering.



**Figure S2.** Gene expression levels (TMM) of common targets in female blood samples over aging. Data are represented in boxplot by mean ± SD. \* P < 0.05, \*\* P < 0.001, and \*\*\* P < 0.0001 vs. young adult individuals (20-29 years old). ANOVA complemented by Tukey's test. *FASLG*: tumor necrosis factor ligand superfamily member 6; *CTSE*: cathepsin E; *CTSW*: cathepsin W; *VCAM1*:vascular cell adhesion molecule 1; *BAG3*: BAG family molecular chaperone regulator 3.



**Figure S3.** Gene expression levels (TMM) of common targets in male blood samples over aging. Data are represented in boxplot by mean ± SD. \* P < 0.05, \*\* P < 0.001 vs. young adult individuals (20-29 years old). ANOVA complemented by Tukey's test. *FASLG*: tumor necrosis factor ligand superfamily member 6; *CTSE*: cathepsin E; *CTSW*: cathepsin W; *VCAM1*:vascular cell adhesion molecule 1; *BAG3*: BAG family molecular chaperone regulator 3.