Alterations in Vaginal Microbiota among Pregnant Women with COVID-19

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### Study population and Methods

#### Sample collection, processing and sequencing

- Illumina MiSeq platform – 16S rRNA

#### Bioinformatics

- DADA2 software - V1/V2 region

#### Statistical analysis

- Wilcoxon signed-rank test using Python 3.7 GraphPad Prism 8.0.2.

### The variations of vaginal microbiota composition related to the severity of COVID-19 disease

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### The vaginal microbiome composition of the Healthy controls and Covid-19 group

#### Beneficial bacteria

- **Lactobacillus crispatus**
- **Lactobacillus gasseri**
- **Lactobacillus jensenii**

#### Pathogenic bacteria

- **Gardnerella vaginalis**
- **Prevotella timonensis**

### Change of vaginal microbiota before infection, during active infection and after recovery

- **Actinobacteria** increased during active infection
- **Bacteroidota** and **Firmicutes** decreased

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