

I SARS-CoV-2

I.1 Deep mutational scanning data

- ACE2 binding and RBD expression BA.1 and BA.2 RBD
 - Paper - <https://doi.org/10.1371/journal.ppat.1010951>
 - Interactive explorer - https://jbloomlab.github.io/SARS-CoV-2-RBD_DMS_Omicron/RBD-heatmaps/
 - Raw data - https://media.githubusercontent.com/media/jbloomlab/SARS-CoV-2-RBD_DMS_Omicron/refs/heads/main/results/final_variant_scores/final_variant_scores.csv
- XBB.1.5 and BA.2 spike
 - Paper - <https://doi.org/10.1038/s41586-024-07636-1>
 - XBB.1.5 spike DMS - https://github.com/dms-vep/SARS-CoV-2_XBB.1.5_spike_DMS/blob/main/results/summaries/summary.csv
 - XBB.1.5 spike per antibody escape - https://github.com/dms-vep/SARS-CoV-2_XBB.1.5_spike_DMS/blob/main/results/summaries/per_antibody_escape.csv
 - XBB.1.5 RBD DMS - https://github.com/dms-vep/SARS-CoV-2_XBB.1.5_RBD_DMS/blob/main/results/summaries/summary.csv
 - BA.2 spike DMS - https://github.com/dms-vep/SARS-CoV-2_Omicron_BA.2_spike_ACE2_binding/blob/main/results/summaries/summary.csv
- Escape calculator (wildtype mutations)
 - BA.1, BA.2, BA.4, BA.5 - https://github.com/jbloomlab/SARS2-RBD-escape-calc/blob/main/Cao_data/convergent_RBD_evolution.
 - Paper - <https://www.nature.com/articles/s41586-022-05644-7>
 - BA.4, BA.5, XBB.1.5 - https://github.com/jbloomlab/SARS2-RBD-escape-calc/blob/main/Cao_data/SARS-CoV-2-reinfection-DMS.
 - Paper - <https://www.nature.com/articles/s41586-023-06753-7>
 - XBB.1.5, JN.1 - https://github.com/jbloomlab/SARS2-RBD-escape-calc/blob/main/Cao_data/JN1-evolving-antibody-response.
 - Paper - <https://www.nature.com/articles/s41586-024-08315-x>

Note: For escape calculator clone the submodules,

```
git clone https://github.com/jbloomlab/SARS2-RBD-escape-calc.git
git submodule update --init --recursive
```