This folder contains the raw data used to generate the graphs of the main and supplementary figures of the following manuscript: “*Phenotyping the virulence of SARS-CoV-2 variants in hamsters by digital pathology and machine learning*” by Gavin R Meehan, Vanessa Herder *et al* currently under review.

The data used to generate each figure of the paper is contained in distinct folders named after the specific corresponding figure.

The folder “HALO machine learning files” contains the files with the trained algorithm to detect alveolar epithelial hyperplasia (https://doi.org/10.5525/gla.researchdata.1513) and can be imported to any HALO software (HALO version 3.4.2986.230) by the users. The file “.classifier” can be read by a text editor and includes metadata (resolution, class names, etc.). The “.params” and “.trainer” files are specific to the deep learning framework mxnet. The .params files MXNet's specific file format for storing model weights. The .trainer files are MXNet's specific file format for the optimizer. This keeps track of training information such as iteration, learning rate and optimizer states. A zip file with these three files can be loaded directly into HALO.