# Building your own Almodels

M3. Real-world cases 26.09.2023



#### Three real-world datasets

- Open Source Mycetoma
- HDAC1 inhibitors
- ACE2-Spike PPI inhibitors



#### Exercise

- Split in 3 groups.
- Understand the source of your data.
- Binarize the output variable.
- Divide your dataset into a training set and a test set.
- Train an Al model with LazyQSAR.
- Evaluate performance.
- Retrain model with full dataset and download it.

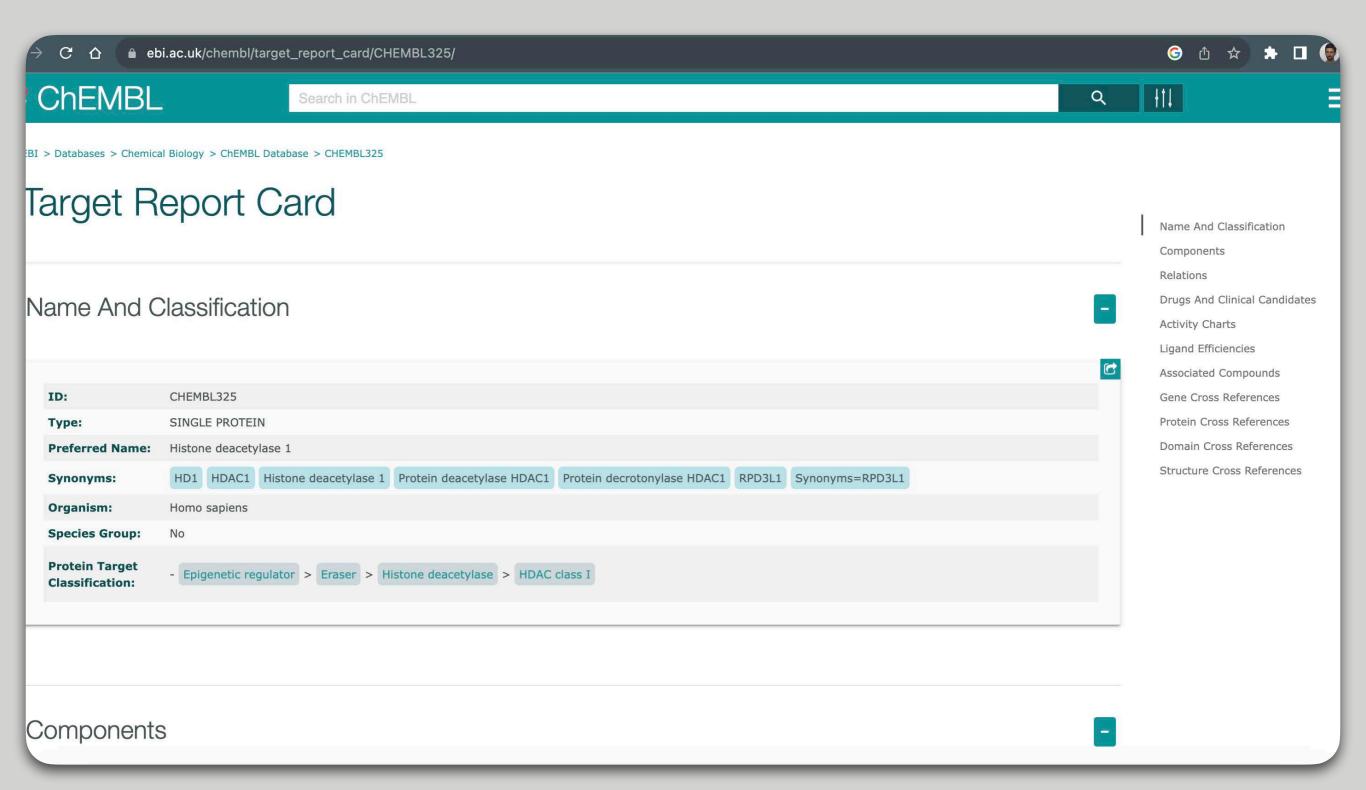


Tomorrow: present your results!

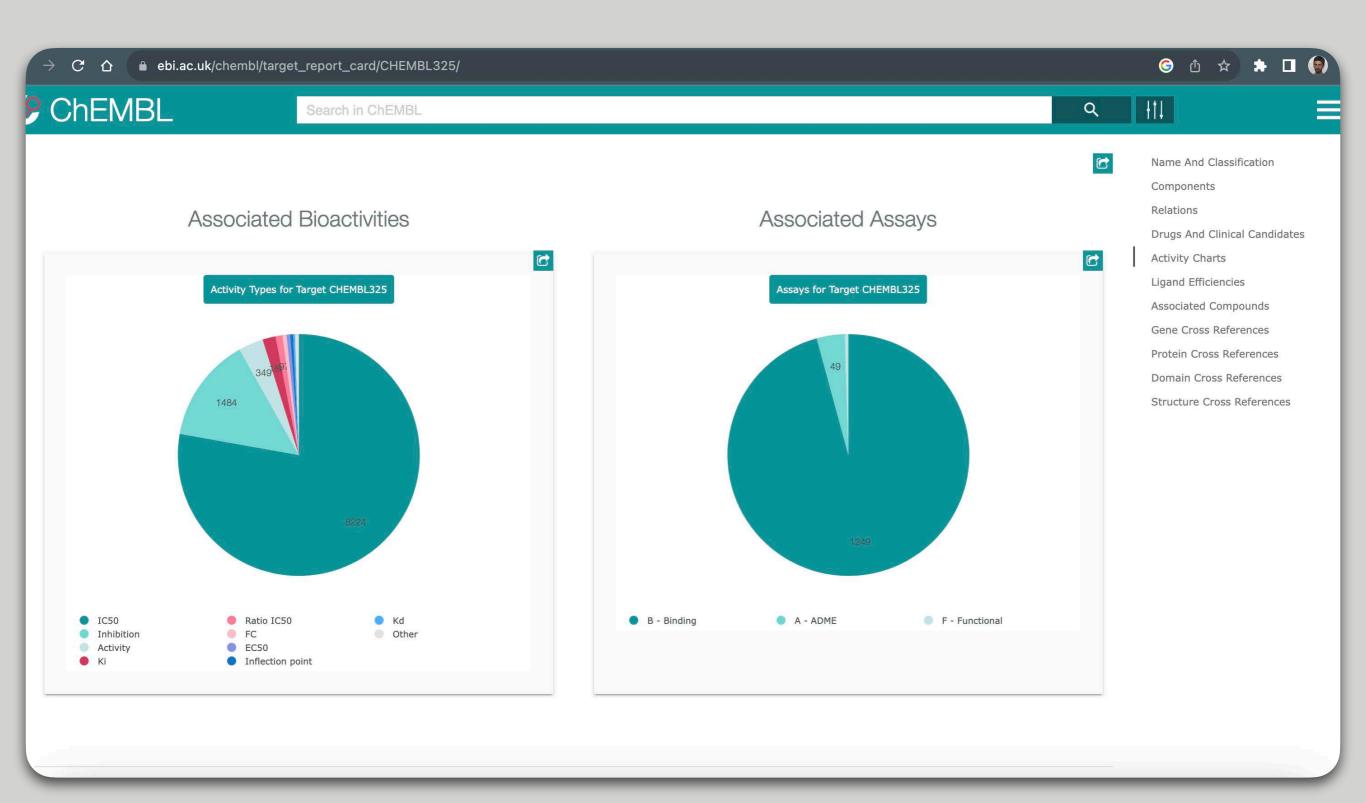


Deployment in the Ersilia Model Hub!

## HDAC1 inhibitors from ChEMBL (target 325)

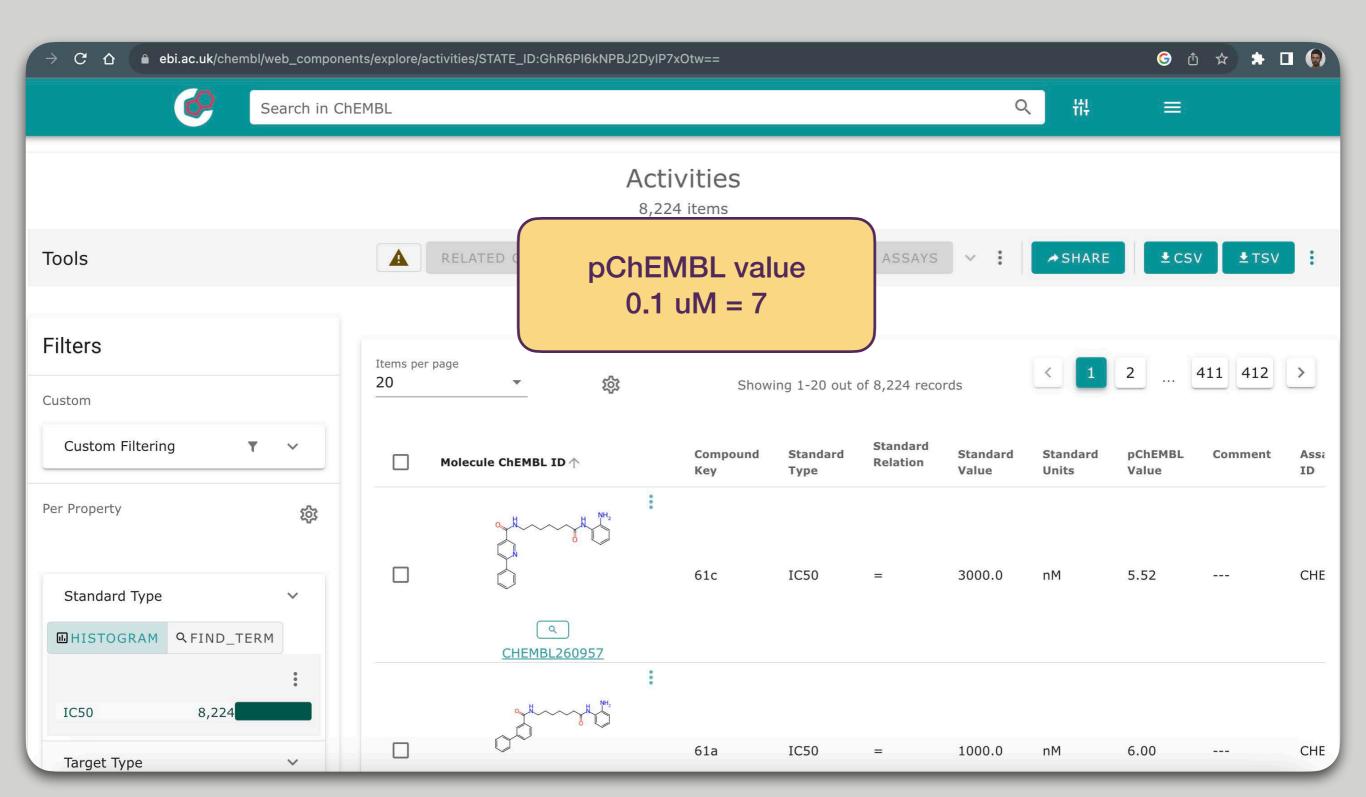


### HDAC1 inhibitors from ChEMBL (target 325)

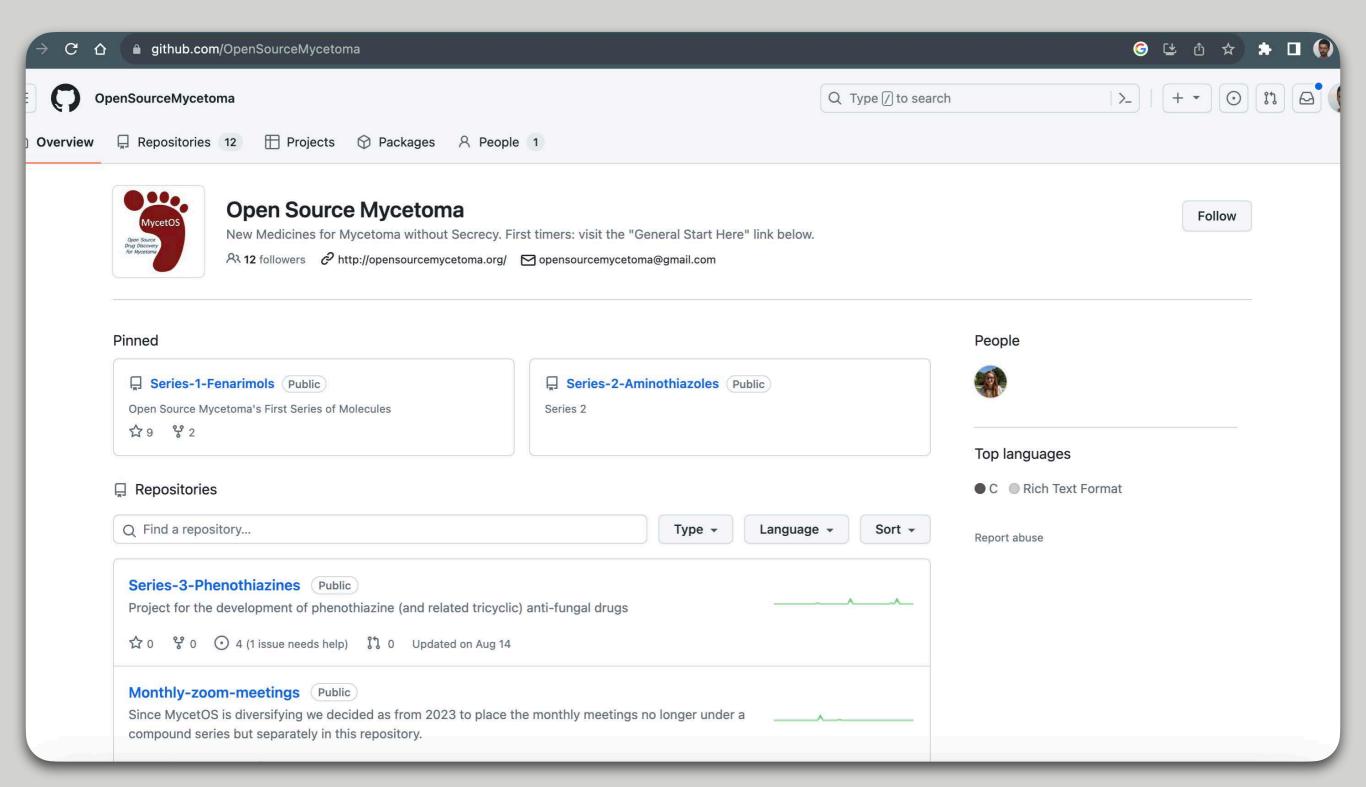


## HDAC1 inhibitors from ChEMBL (target 325)

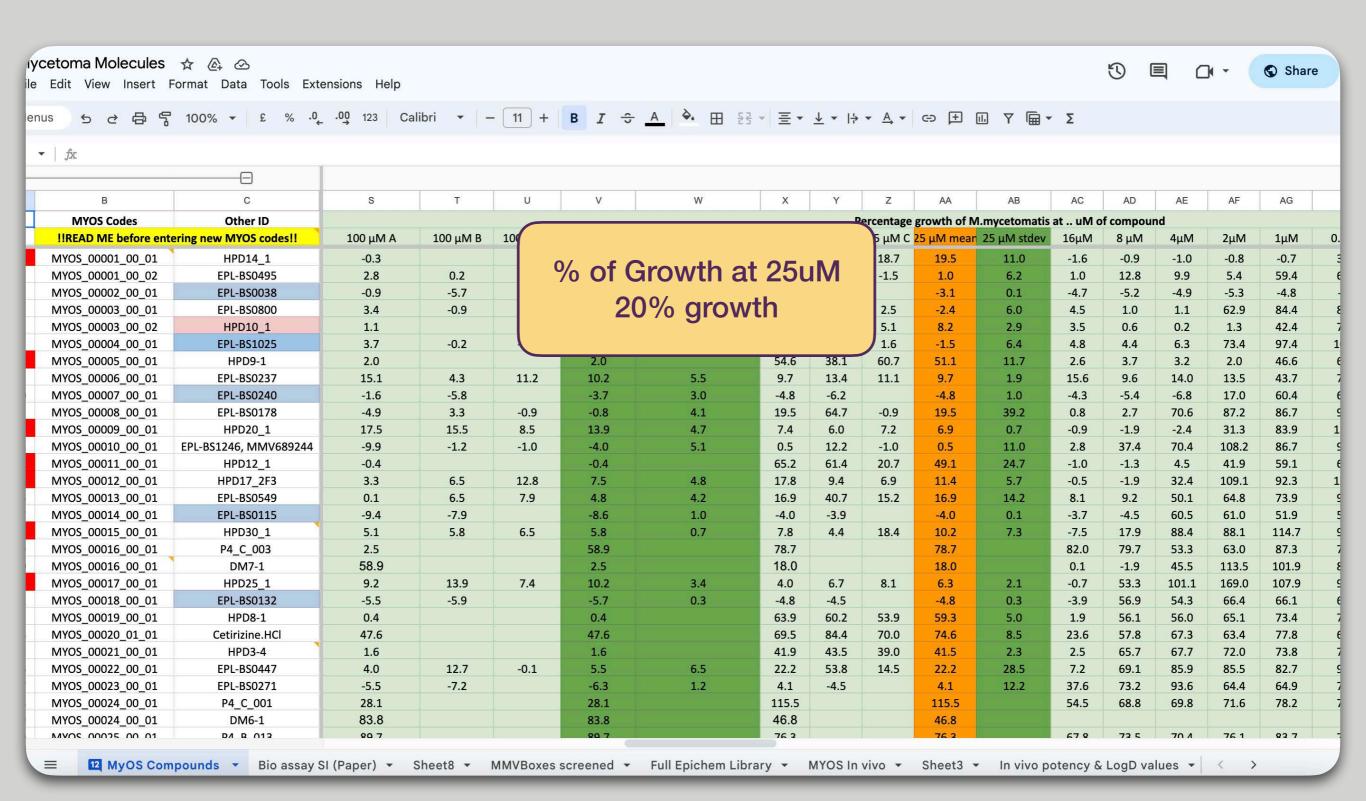
Ersilia



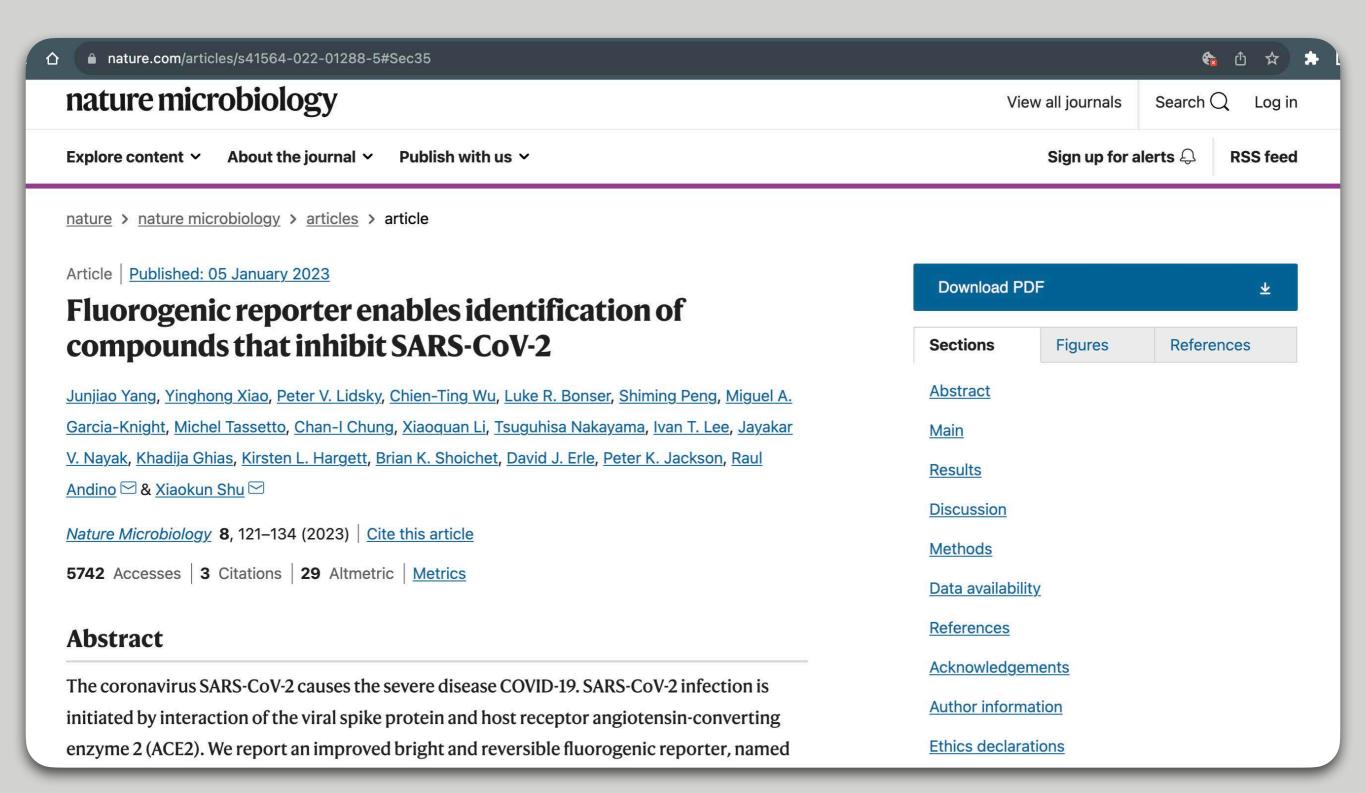
#### MycetOS, series 1 An open source project



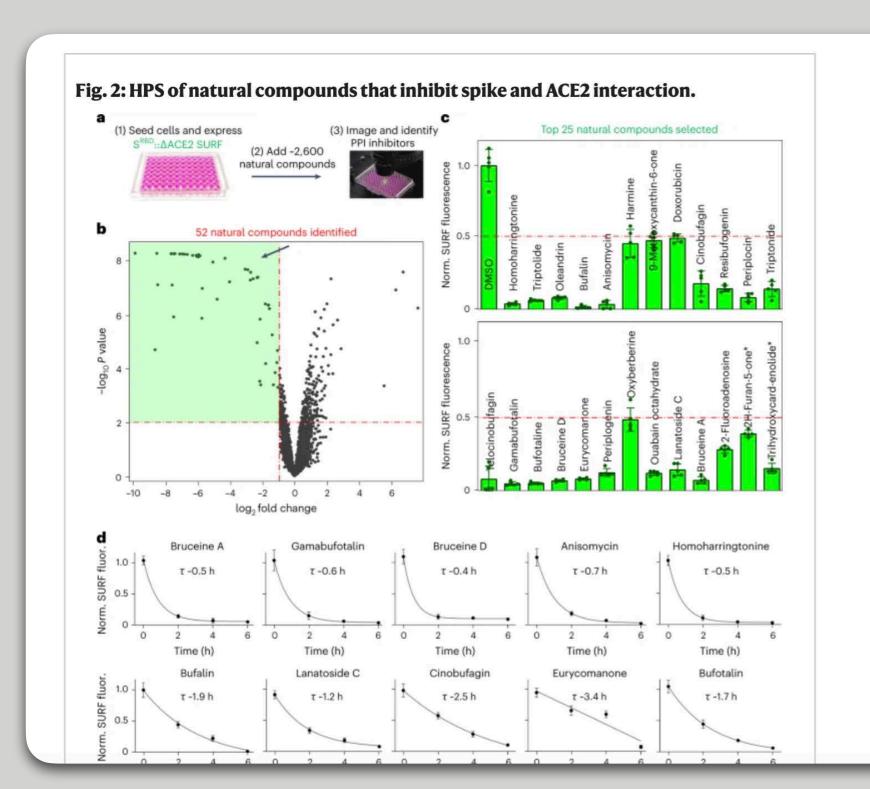
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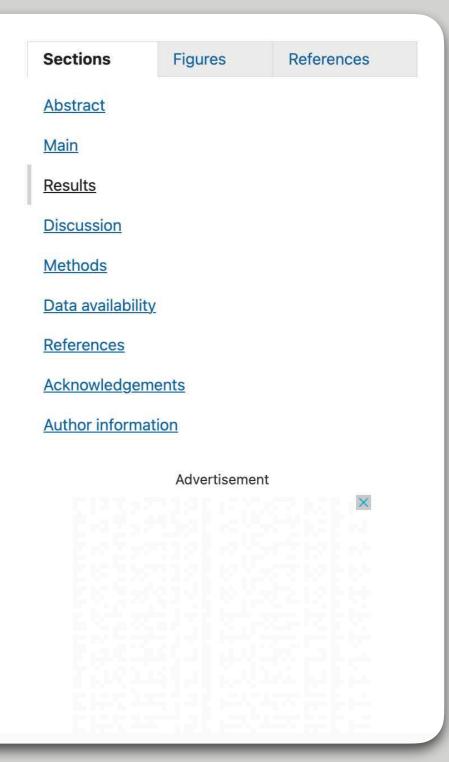


### ACE2-Spike protein-protein interaction

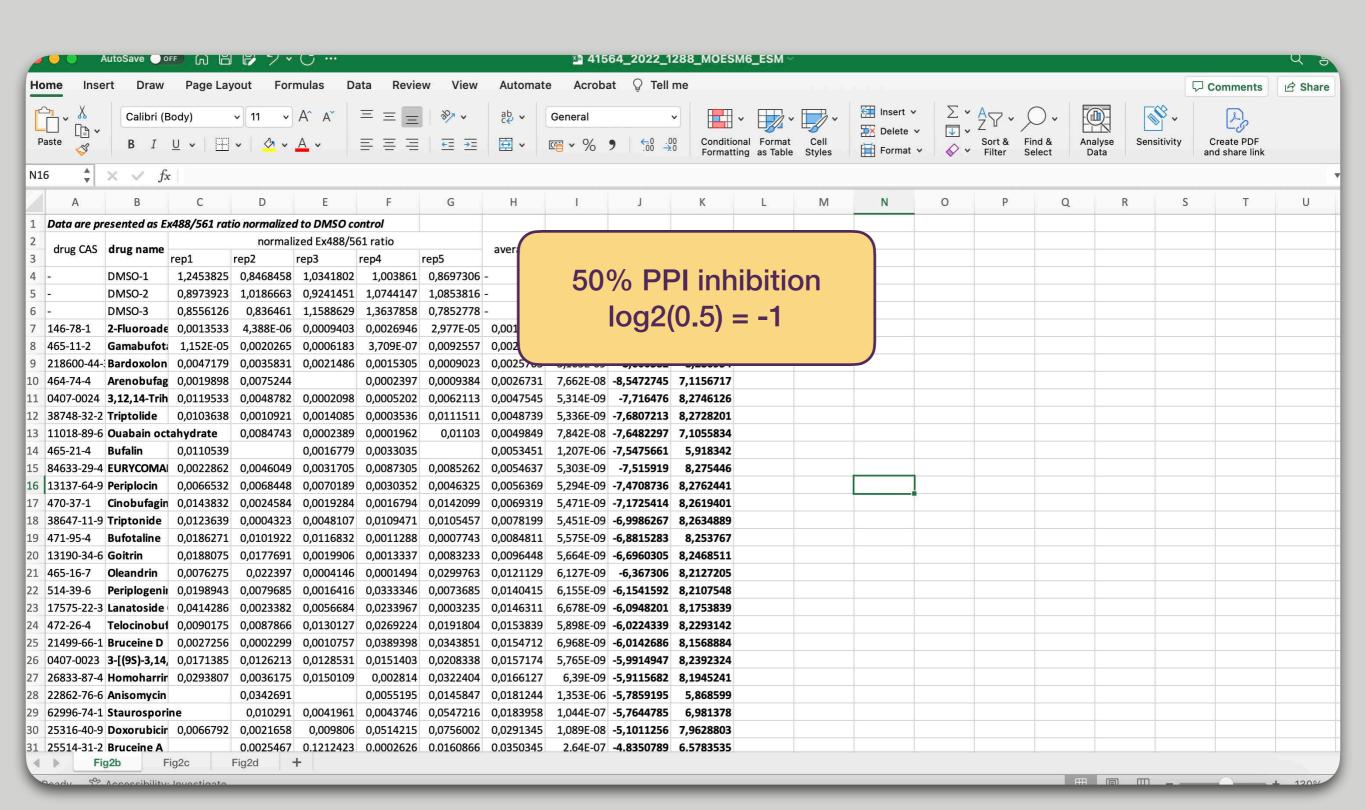


### ACE2-Spike protein-protein interaction





### ACE2-Spike protein-protein interaction



### Let's get started!

- Work on your Colab notebook
- Prepare a presentation