

Level 4 Project

Week 9/22

Schedule for weeks 8-9 (21-22)

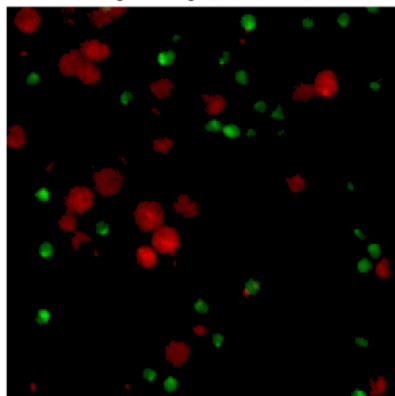
- Evaluation
 - Only missing one but keep running into Google Colab limitations...
- Dissertation writing

Bottom line on evaluation:

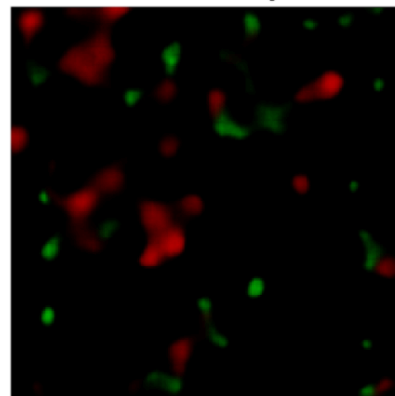
- Clustering on drug doesn't work
- Regression for interaction prediction is promising
 - Fixed a labelling issue...

Extract: masked balanced dataset (CK19)

original image [index 5947]



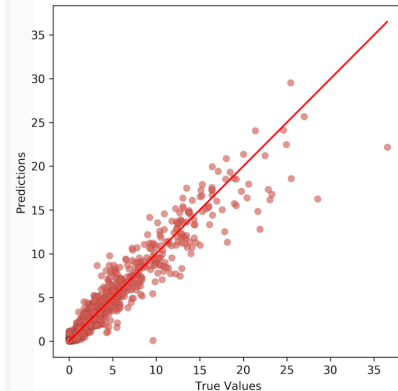
reconstructed image



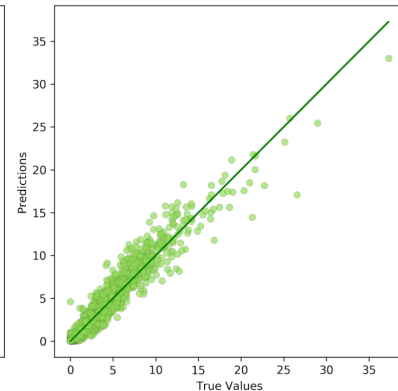
MSE score: 1.3480314016342163

RMSE score: 1.1610475778579712

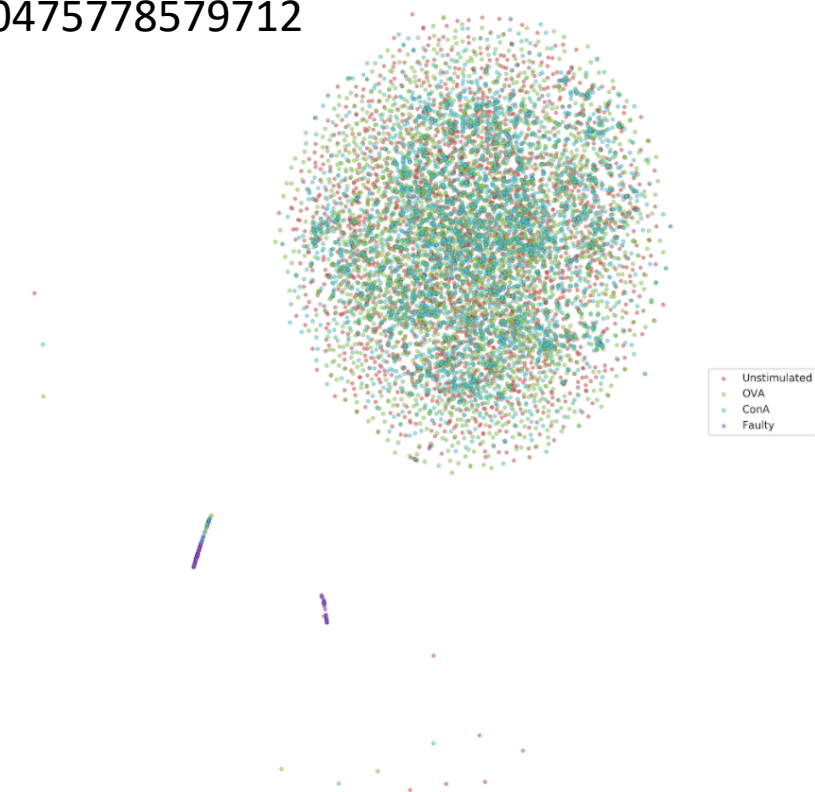
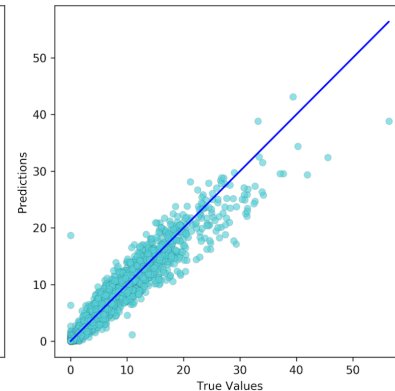
Predictions - Unstimulated label



Predictions - OVA label

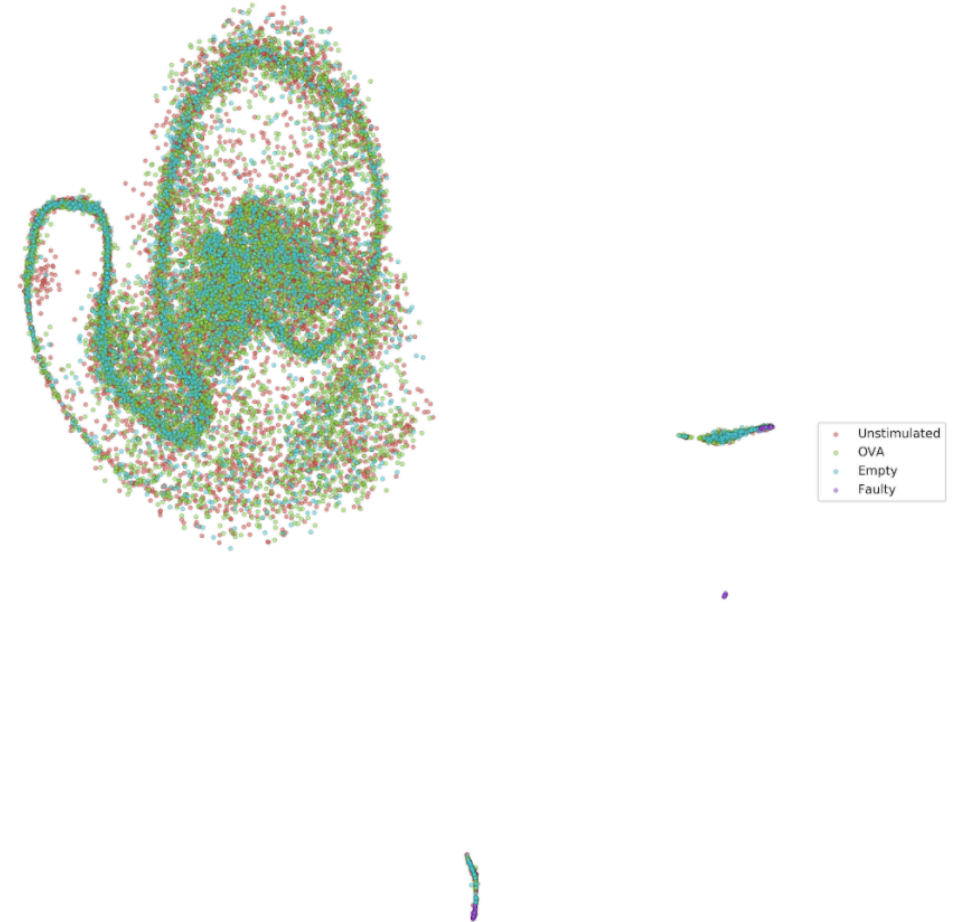


Predictions - ConA label



Two-category dataset

- Unstimulated vs. OVA
- Couldn't finish evaluating because of Colab restrictions
- But have some results
- Some odd clusters happening: would it be worth saving the concentration labels, see how it reacts?



Dissertation

- Have written quite a lot down for all sections except evaluation and conclusion
- Questions:
 - Should I put t-sne and UMAP in the background, or mention it in the Materials & Methods? Is it considered as a contributing factor to our research?
 - If I mention any choice in Implementation e.g. PReLU instead of ReLU, can it be justified in implementation, or would it be better off in the background?
 - Feels like a very small thing to be mentioning in background.