MMDeNovo Model Performances during Training and Validation Sparse Categorical Crossentropy (Val) Sparse Categorical Crossentropy (Train) sparse categorical crossentropy (lower is better) 12 -10 8 6 4 2 Sparse Categorical Accuracy (Train) Sparse Categorical Accuracy (Val) sparse categorical accuracy (higher is better) 1.0 0.9 0.8 0.7 0.6 0.5 0.4 0.3 Jaccard Distance (Train) Jaccard Distance (Val) 1.0 jaccard distance (higher is better) 0.9 0.8 0.7 0.6 0.5 0.4 0.3 0.2 Leuvenshtein Distance (Train) Leuvenshtein Distance (Val) 20.0 leuvenshtein distance (lower is better) 17.5 15.0 model/dataset: 12.5 Istm/pdeep Istm/pride 10.0 dense/pdeep dense/pride 7.5 transformer/pdeep 5.0 2.5 0.0 0 20 40 60 0 20 40 60 virtual epoch virtual epoch