UMAP metabolomics hidden dim 1=0.4 latent dim=30 probability=0.4 group=15 Tearning rate=0.0001 n folds=3 batch size=32 tissue Soft Tissue Haematopoietic and Lymphoid Skin Prostate Kidney Lung Ovary Large Intestine Thyroid Cervix Testis Pancreas Bone UMAP_2 Head and Neck Central Nervous System Stomach Breast Bladder Peripheral Nervous System Endometrium Liver Esophagus Uterus Vulva **Biliary Tract** Small Intestine Placenta Adrenal Gland Eye Unknown

UMAP_1