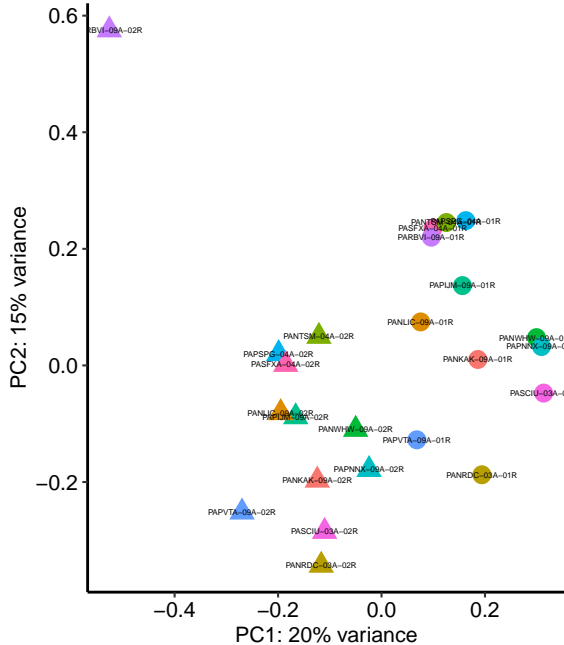
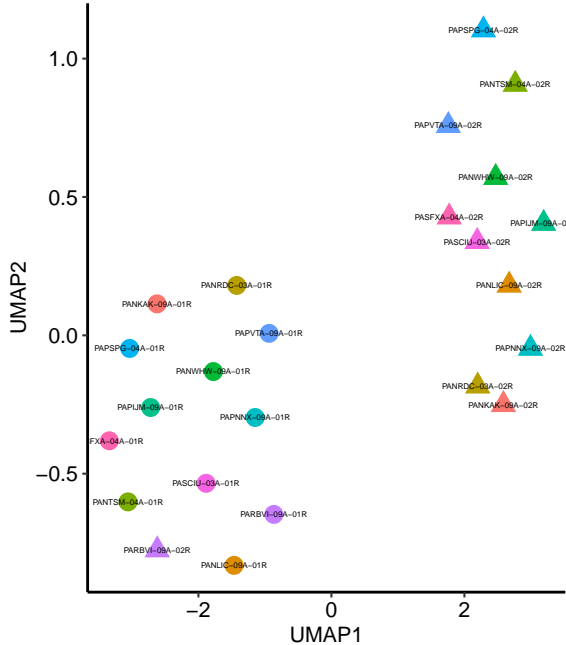


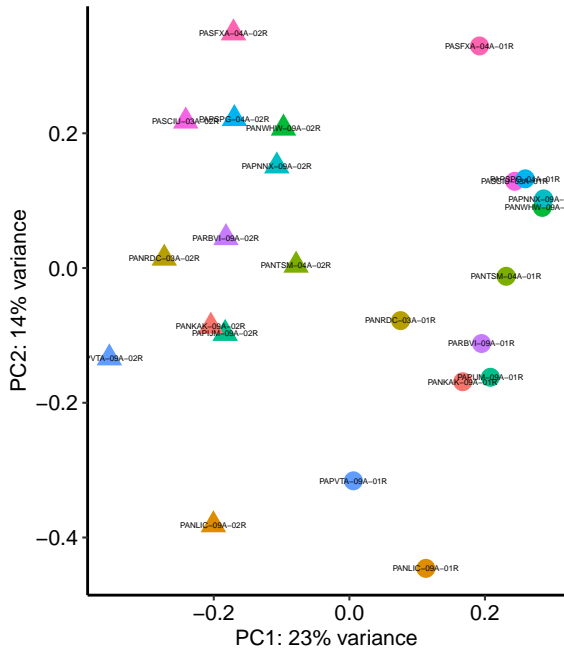
PCA: RUVg output ($k = 1$)

UMAP: RUVg output ($k = 1$)

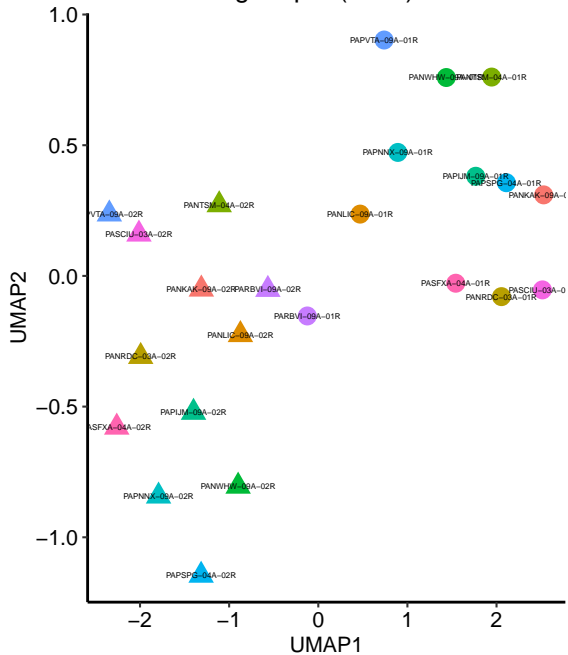


rna_library ● poly-A stranded ▲ stranded

PCA: RUVg output (k = 2)

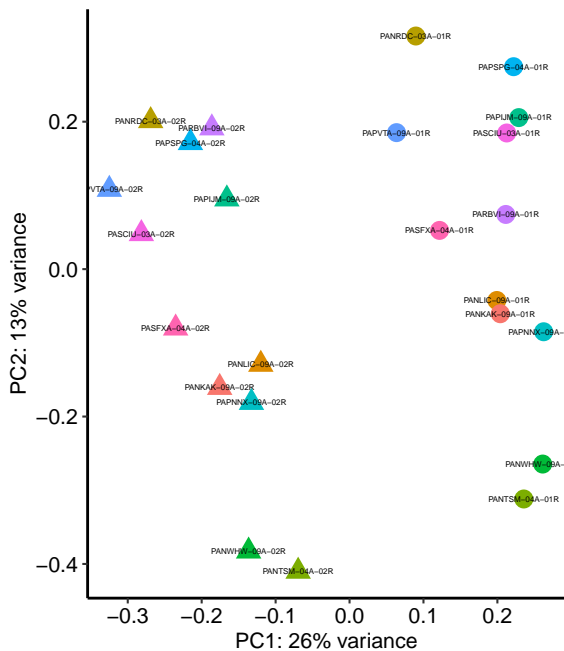


UMAP: RUVg output (k = 2)

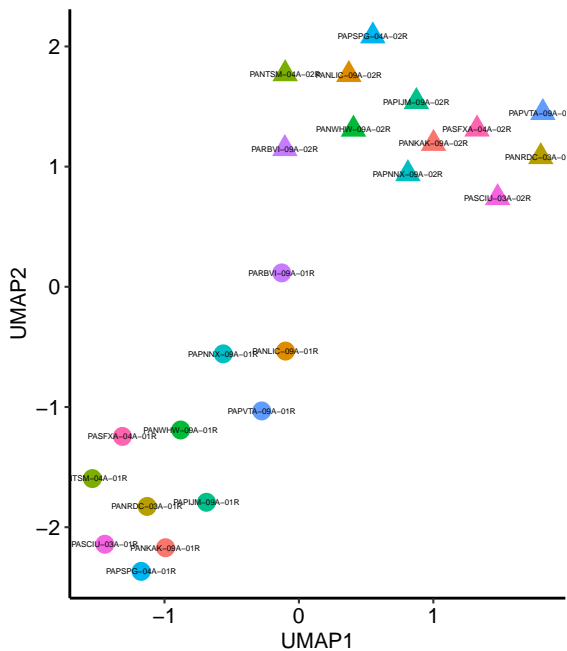


rna_library ● poly-A stranded ▲ stranded

PCA: RUVg output (k = 3)



UMAP: RUVg output (k = 3)



rna_library ● poly-A stranded ▲ stranded

UMAP2

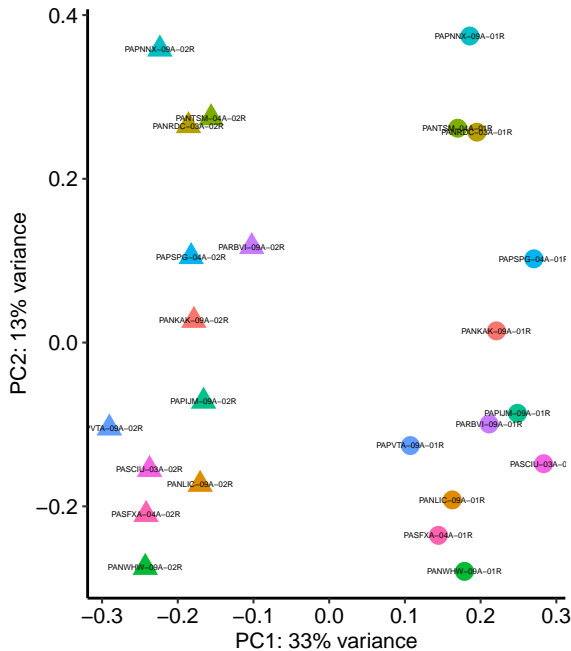
UMAP1

Cell lines and their approximate UMAP coordinates (UMAP1, UMAP2):

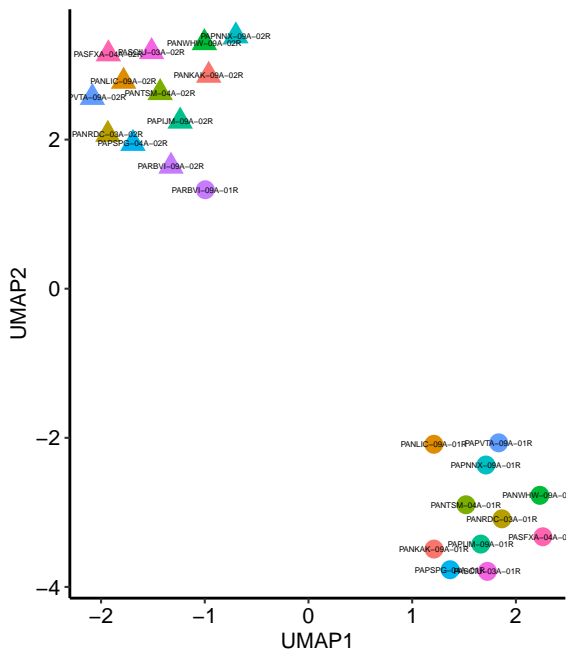
- PANKAK-09A-01R (pink circle): (1.0, 2.8)
- PASCIU-03A-01R (pink circle): (0.6, 2.8)
- PANTSU-04A-01R (green circle): (0.4, 2.4)
- PAPSPG-04A-01R (blue circle): (0.7, 2.4)
- PANRDC-03A-01R (orange circle): (1.3, 2.3)
- PAPLJM-02A-01R (green circle): (0.6, 2.0)
- PANINW-01A-01R (green circle): (0.5, 1.8)
- PASFXA-04A-01R (pink circle): (0.9, 1.8)
- PAPVTA-09A-01R (blue circle): (0.1, 1.2)
- PAPNNX-09A-01R (blue circle): (0.6, 1.0)
- PANLIC-09A-01R (orange circle): (0.3, 0.6)
- PARBVI-09A-01R (purple circle): (0.1, -0.4)
- PARBVI-09A-02R (purple triangle): (0.0, -0.8)
- PAPVTA-09A-02R (blue triangle): (-0.7, -1.1)
- WHYU-09A-02R (green triangle): (-1.3, -1.3)
- PANTSU-04A-02R (green triangle): (-0.7, -1.6)
- PASCIU-03A-02R (pink triangle): (-0.4, -1.6)
- PANRDC-02A-02R (orange triangle): (-0.1, -1.6)
- PAPSPS-04A-02R (blue triangle): (0.2, -1.6)
- PANINW-01A-02R (green triangle): (-0.7, -1.8)
- PASFXA-04A-02R (pink triangle): (-0.6, -1.8)
- PANKAK-09A-02R (red triangle): (-1.3, -1.8)
- PAPNNX-09A-02R (blue triangle): (-1.4, -2.2)
- PANLIC-09A-02R (orange triangle): (-0.5, -2.2)
- PAPLJM-09A-02R (green triangle): (0.1, -2.2)

rna_library ● poly-A stranded ▲ stranded

PCA: RUVg output (k = 5)



UMAP: RUVg output (k = 5)



rna_library ● poly-A stranded ▲ stranded