

1 Data Exploration and Visualization — GSE69914

1.1 Missingness

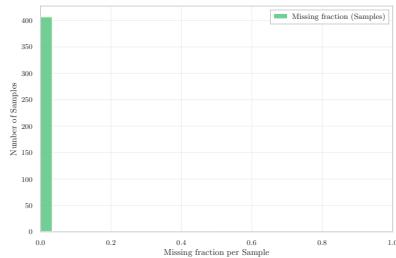


Figure 1: Missing per sample

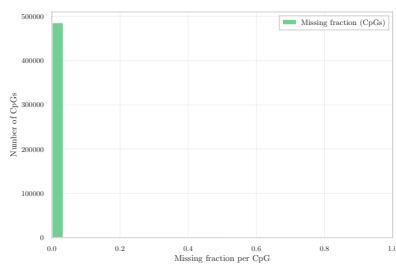


Figure 2: Missing per CpG

1.2 Beta-value distributions

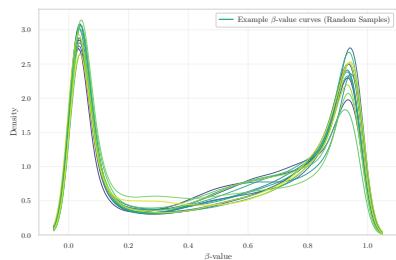


Figure 3: Random sample density

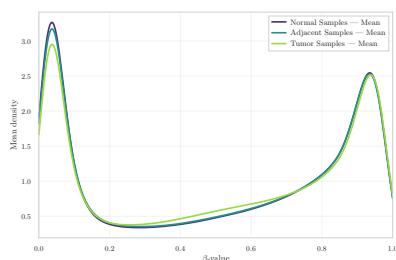


Figure 4: Group mean density

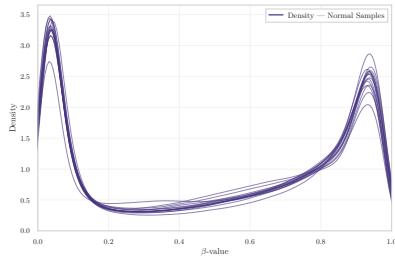


Figure 5: Ridge plot — Normal

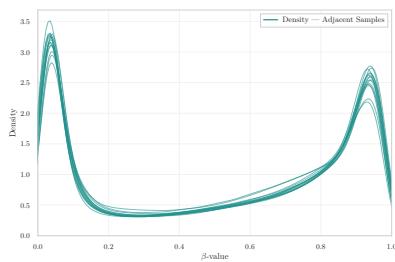


Figure 6: Ridge plot — Adjacent

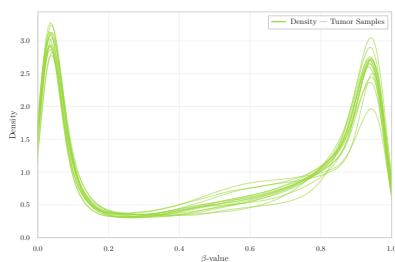


Figure 7: Ridge plot — Tumor

1.3 Mean beta

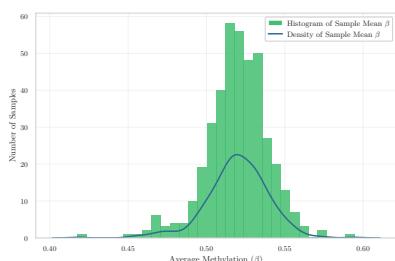


Figure 8: Mean beta per sample

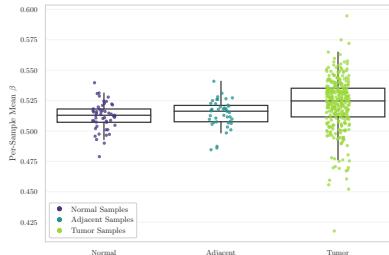


Figure 9: Mean beta distribution by group

1.4 Outlier analysis

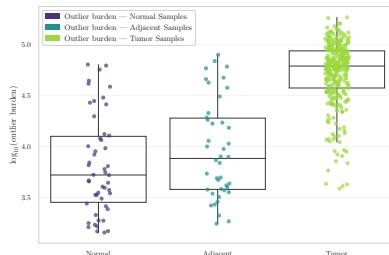


Figure 10: Outlier burden

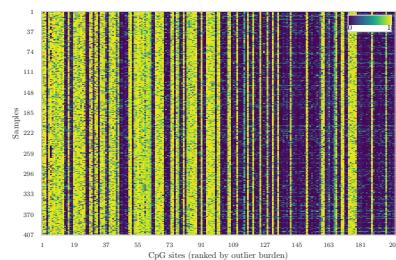


Figure 11: Heatmap of top outlier CpGs

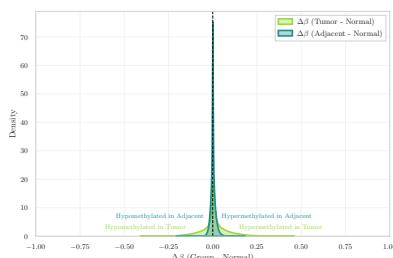


Figure 12: Delta-beta overlaid

1.5 Variance and correlations

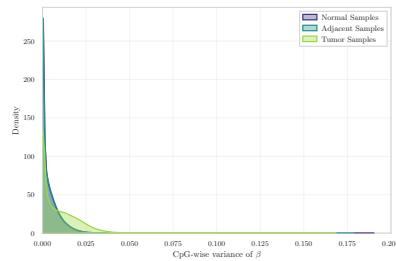


Figure 13: Intragroup variance

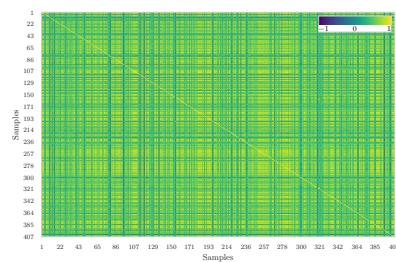


Figure 14: Sample correlation heatmap

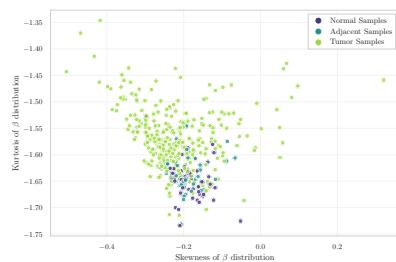


Figure 15: Skewness and kurtosis

1.6 Dimensionality reduction

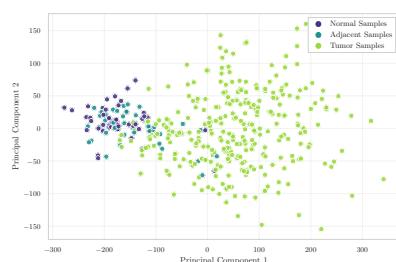


Figure 16: PCA

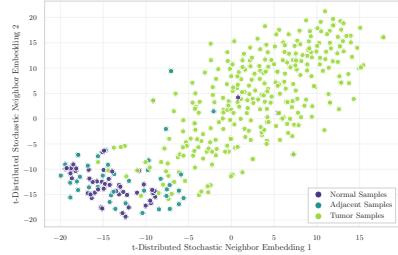


Figure 17: t-SNE

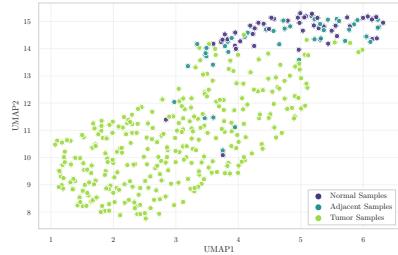


Figure 18: UMAP

1.7 Manifest coverage

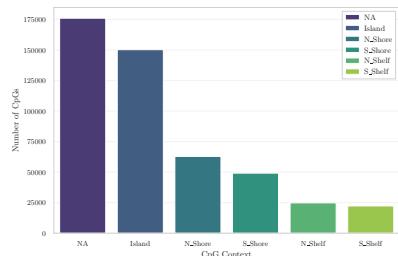


Figure 19: Coverage by CpG context

1.8 Dynamic-network proxies

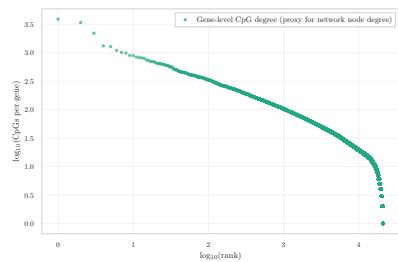


Figure 20: Dynamic network — Degree proxy

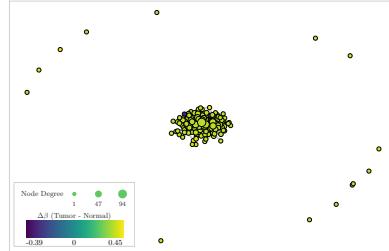


Figure 21: DNB network: Tumor minus Normal

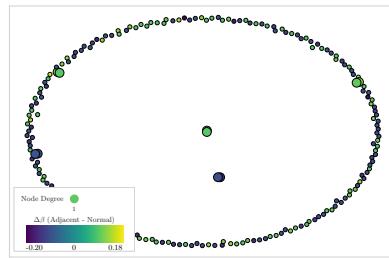


Figure 22: DNB network: Adjacent minus Normal

2 Data Exploration and Visualization — GSE225845

2.1 Missingness

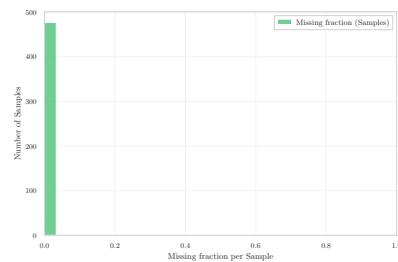


Figure 23: Missing per sample

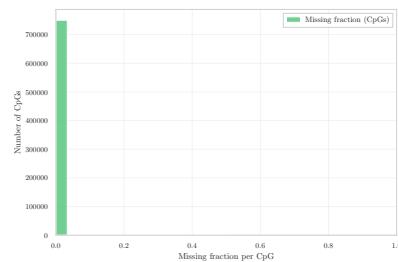


Figure 24: Missing per CpG

2.2 Beta-value distributions

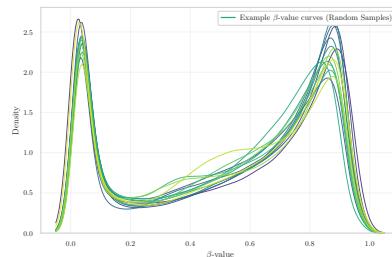


Figure 25: Random sample density

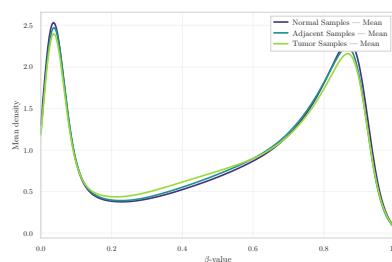


Figure 26: Group mean density

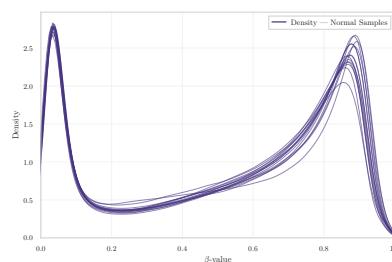


Figure 27: Ridge plot — Normal

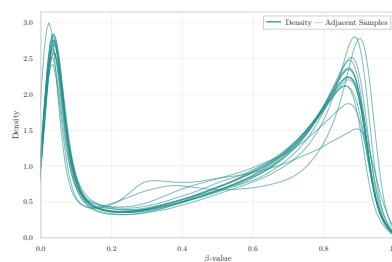


Figure 28: Ridge plot — Adjacent

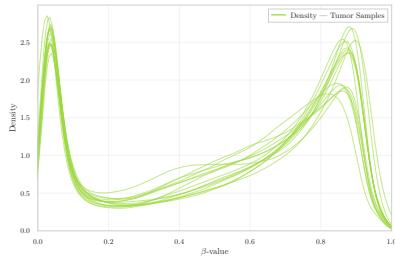


Figure 29: Ridge plot — Tumor

2.3 Mean beta

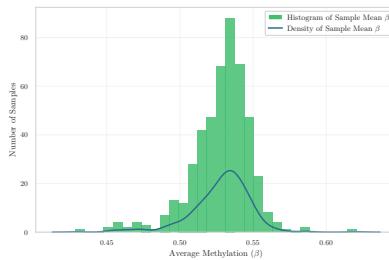


Figure 30: Mean beta per sample

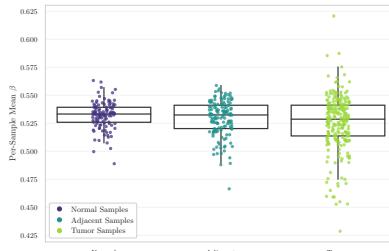


Figure 31: Mean beta distribution by group

2.4 Outlier analysis

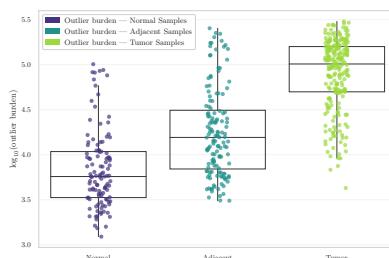


Figure 32: Outlier burden

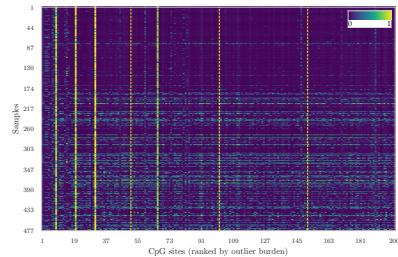


Figure 33: Heatmap of top outlier CpGs

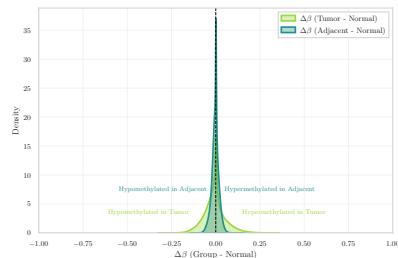


Figure 34: Delta-beta overlaid

2.5 Variance and correlations

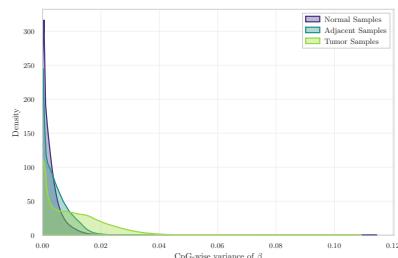


Figure 35: Intragroup variance

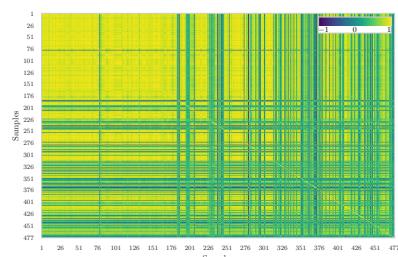


Figure 36: Sample correlation heatmap

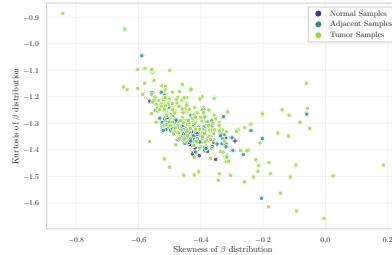


Figure 37: Skewness and kurtosis

2.6 Dimensionality reduction

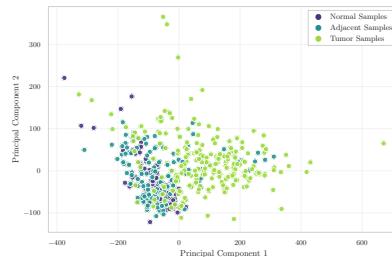


Figure 38: PCA

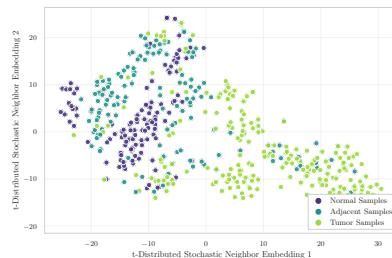


Figure 39: t-SNE

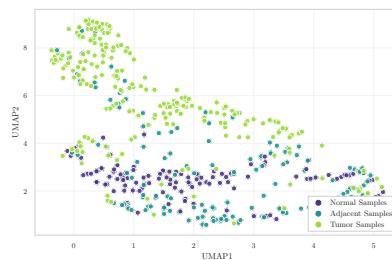


Figure 40: UMAP

2.7 Manifest coverage

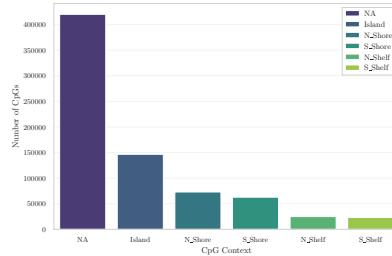


Figure 41: Coverage by CpG context

2.8 Dynamic-network proxies

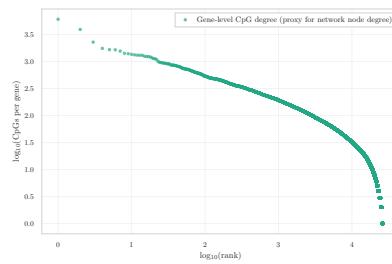


Figure 42: Dynamic network — Degree proxy

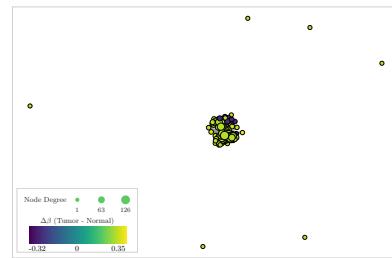


Figure 43: DNB network: Tumor minus Normal

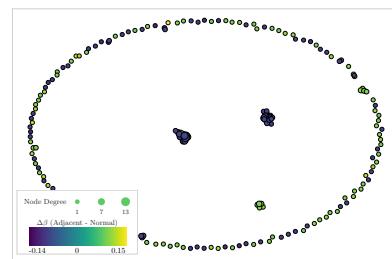


Figure 44: DNB network: Adjacent minus Normal

3 Data Exploration and Visualization — GSE287331

3.1 Missingness

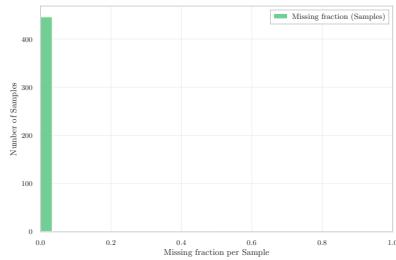


Figure 45: Missing per sample

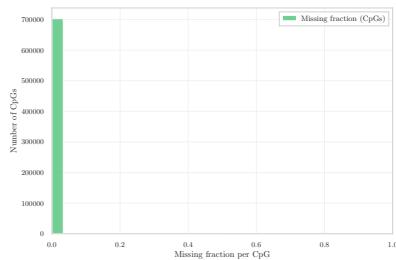


Figure 46: Missing per CpG

3.2 Beta-value distributions

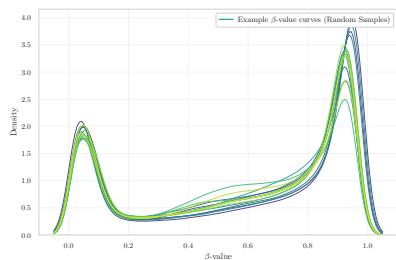


Figure 47: Random sample density

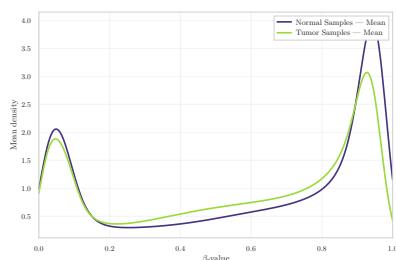


Figure 48: Group mean density

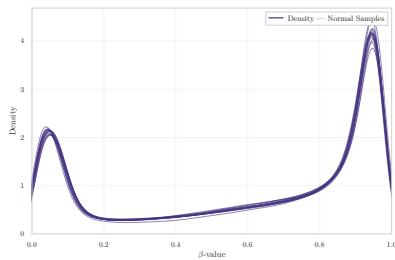


Figure 49: Ridge plot — Normal

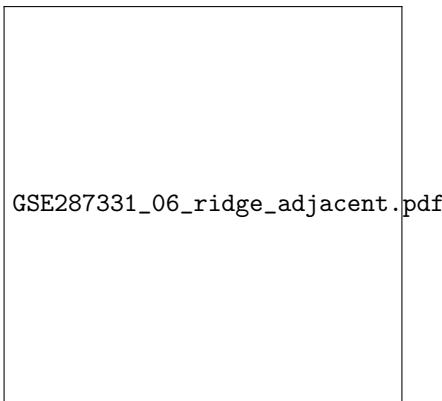


Figure 50: Ridge plot — Adjacent

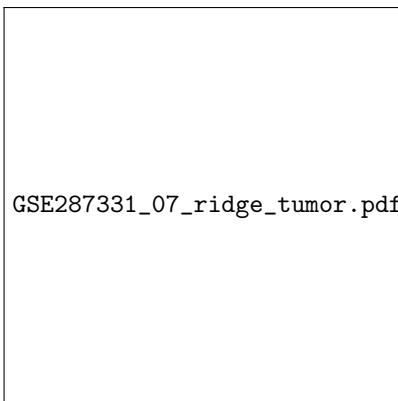


Figure 51: Ridge plot — Tumor

3.3 Mean beta

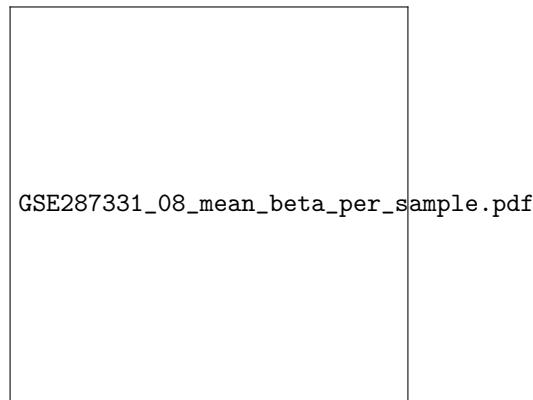


Figure 52: Mean beta per sample

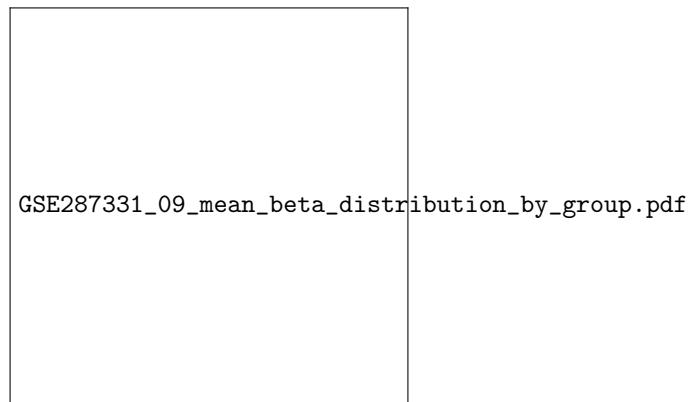


Figure 53: Mean beta distribution by group

3.4 Outlier analysis

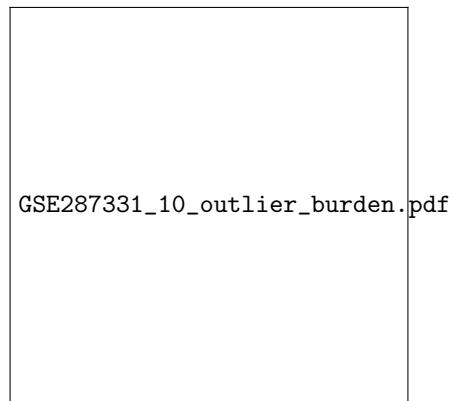


Figure 54: Outlier burden

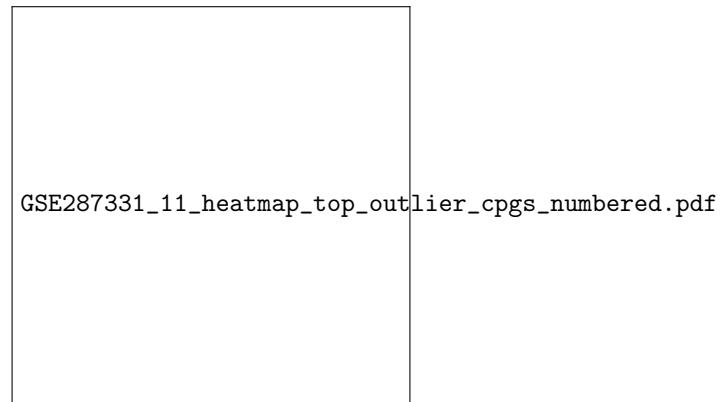


Figure 55: Heatmap of top outlier CpGs

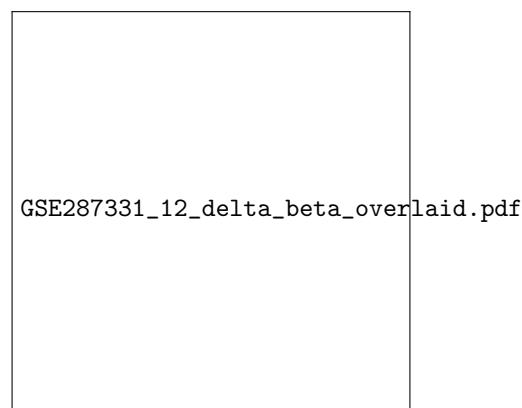


Figure 56: Delta-beta overlaid

3.5 Variance and correlations

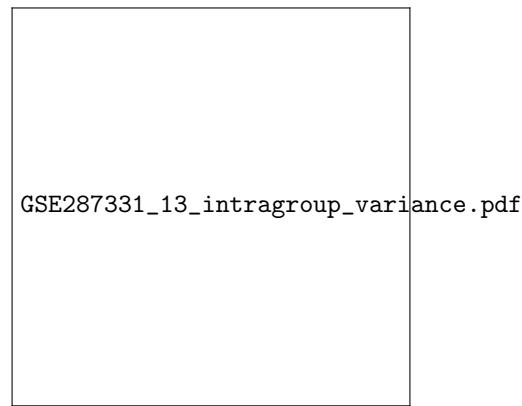


Figure 57: Intragroup variance



Figure 58: Sample correlation heatmap

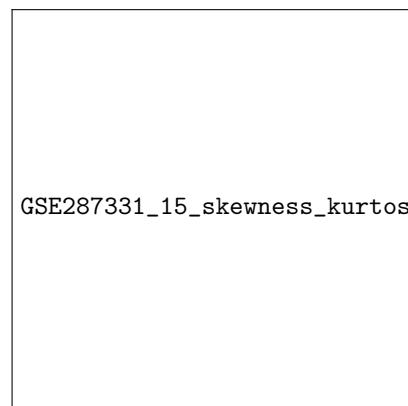


Figure 59: Skewness and kurtosis

3.6 Dimensionality reduction

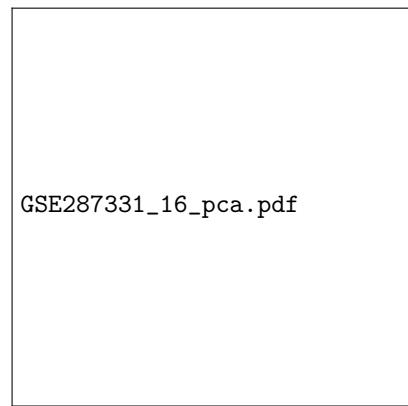


Figure 60: PCA

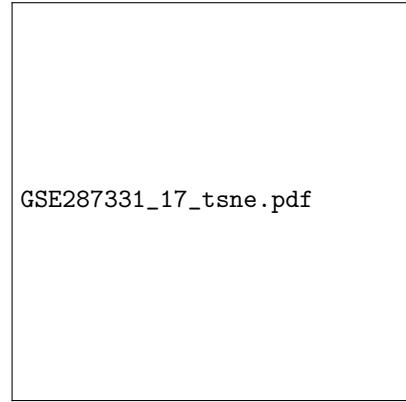


Figure 61: t-SNE

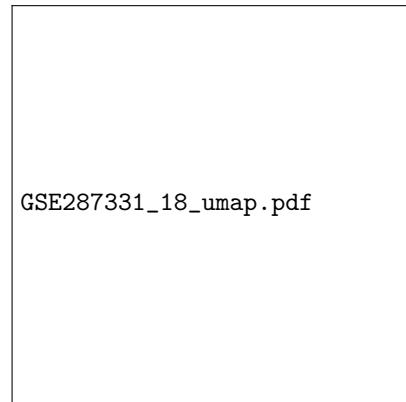


Figure 62: UMAP

3.7 Manifest coverage

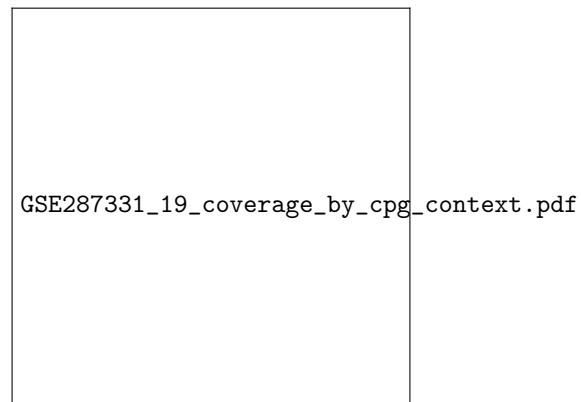


Figure 63: Coverage by CpG context

3.8 Dynamic-network proxies

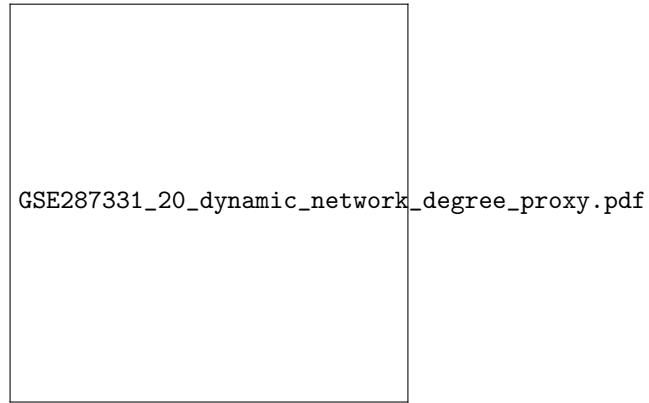


Figure 64: Dynamic network — Degree proxy