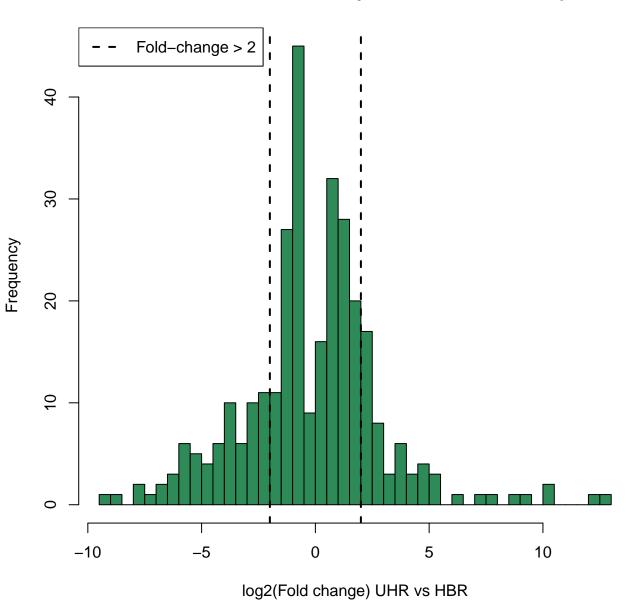
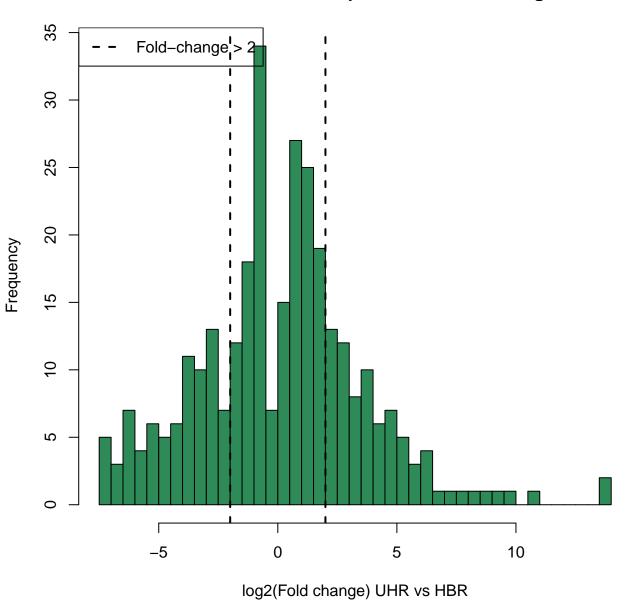
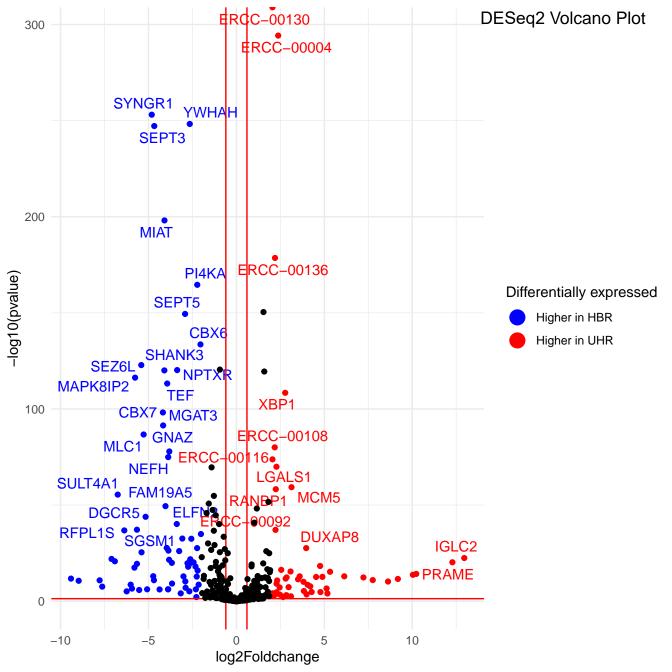
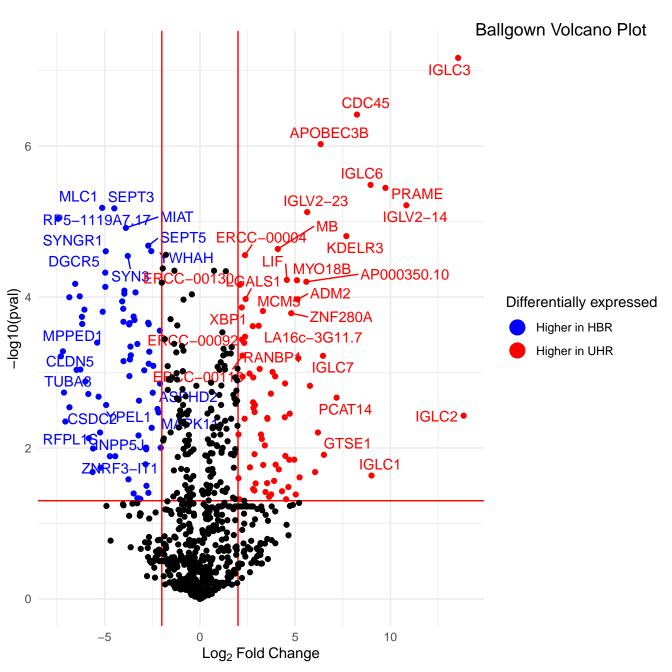
Distribution of differential expression values-DESeq2



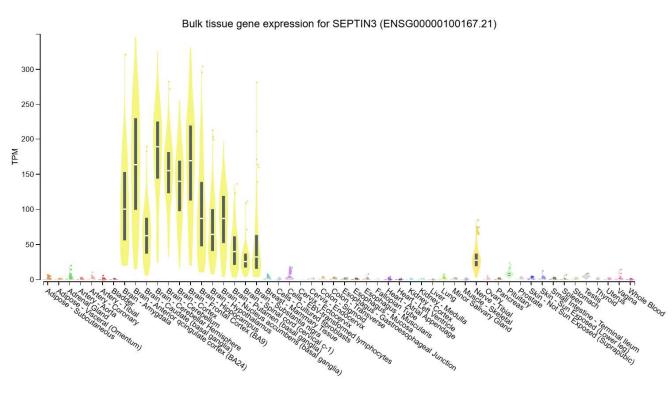
Distribution of differential expression values-Ballgown



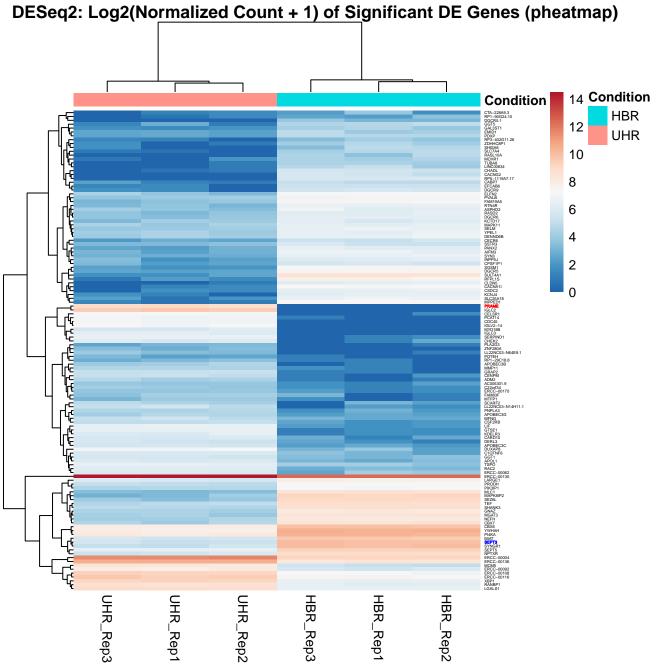


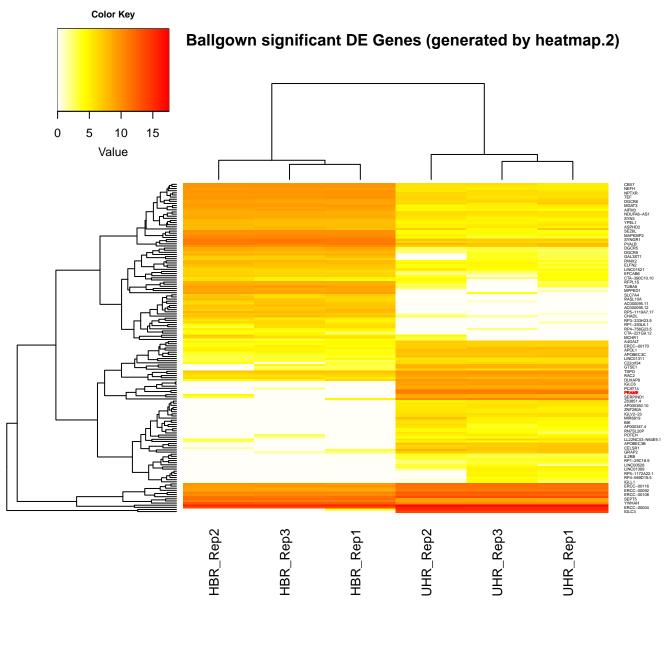


From Volcano plots, we can see that **SEPT3** is highly expressed in Human Brain Reference (HBR) samples. This makes sense because we can see that expression of SEPT3 (SEPTIN3) is high in brain tissue compared to other tissues according to data in <u>GTEX</u> (Genotype-Tissue Expression Project).



We will see **SEPT3** (high in HBR) and **PRAME** (high in Universal Human Reference, UHR) in the heatmap plots next pages.





D 1 1	Will I PNA 'I'	
Feature	pheatmap	heatmap.2 (from gplots)
	o more popular today for much	554 5115 51511151111511

pheatman is more popular today for RNA-seg and bioinformatics:

Popularity Widely used in RNA-seq pipelines, Older, still used in legacy code tutorials

Ease of use Simpler syntax, more intuitive Requires more manual setup

customization

Colorbars Needs more manual Built-in legend and annotations

customization

More work to add annotations **Annotations** Native support for sample

annotations

Yes, but less flexible

Dendrograms by default

Cluster trees

