04_gene_expression_plots

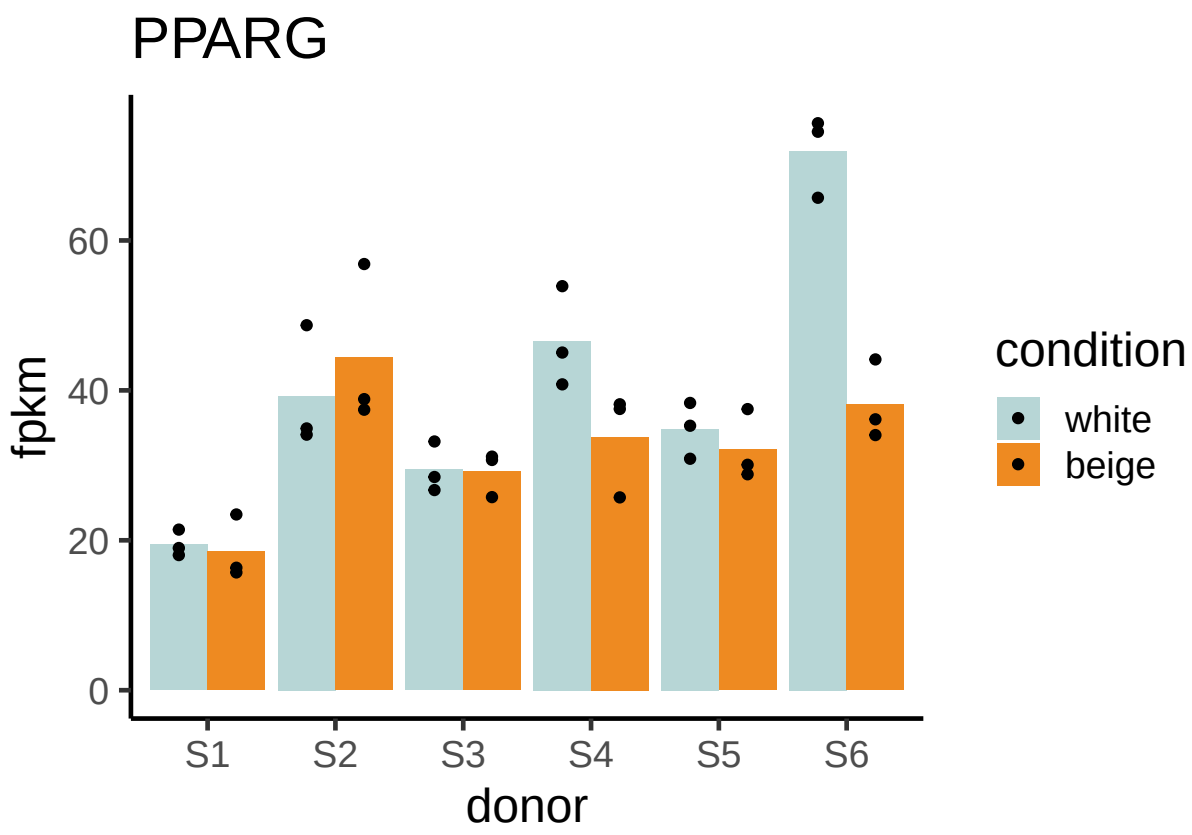
PPARG and PEMT expression plots Figure 4D and Figure 5D

```
library(ggplot2)
library(ggpubr)
library(here); i_am("R/04_gene_expression_plots.Rmd")
```

```
load(here("03limma/rpkm_rep_for_plotting.RData"))
long$donor = gsub("subject","S", long$donor)
```

```
plot_six_donors = function(gene_to_plot){
    c = ggplot(long[long$gene_name == gene_to_plot,],
         aes(x=donor, y=fpkm, fill=condition, group=donor.condition)) +
    geom_bar(stat = "summary", fun=mean, position="dodge")  +
    geom_point(position=position_dodge(0.9)) +
    ggtitle(gene_to_plot) + scale_fill_manual(values=c("#B7D6D6","#EE8A21")) +
        theme_classic(base_size=18)
    return(c)
}
```

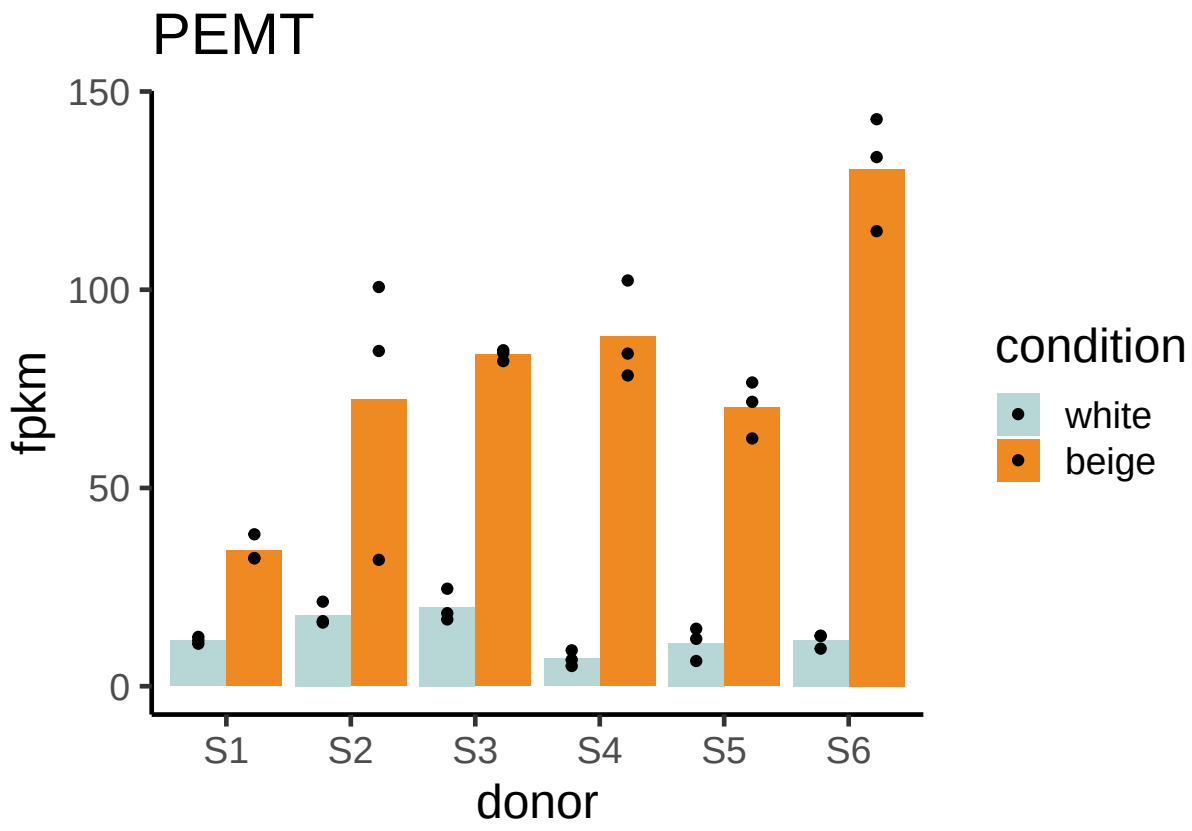
```
plot_six_donors("PPARG")
```




```
ggsave(here("R/plots/PPARG_gene_expr.pdf"))
```

```
## Saving 6.5 x 4.5 in image
```

```
plot_six_donors("PEMT")
```




```
ggsave(here("R/plots/PEMT_gene_expr.pdf"))
```

```
## Saving 6.5 x 4.5 in image
```