01.2_Prepare-CredbileSet-T2D-Metabo-file.Rmd

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```
Setup libraries and directories
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```
"%&%" <- function(a,b) pasteO(a,b)
library("dplyr")
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
##
       intersect, setdiff, setequal, union
library("data.table")
## data.table + dplyr code now lives in dtplyr.
## Please library(dtplyr)!
##
## Attaching package: 'data.table'
## The following objects are masked from 'package:dplyr':
##
##
       between, first, last
library("ggplot2")
## Warning: package 'ggplot2' was built under R version 3.3.2
serv.dir <- "/Users/jtorres/FUSE/"</pre>
rds.dir <- serv.dir %&% "projects/wtsa/enhancer_driven/probe_design/rds/"
fgwas.dir <- serv.dir %%% "projects/wtsa/enhancer_driven/probe_design/fgwas_output/"
fgwas.input.file <- serv.dir %&% "projects/t2d-integration/fgwas/" %&% "credsets_metabochip/fgwas_input
cred.df <- fread(fgwas.input.file) %>% dplyr::select(one_of("SNPID","CHR","POS","SEGNUMBER","PPA","LOCU
fgwas.outfile <- fgwas.dir %%% "metabochip_gwasmod.bfs.gz"
fgwas.df <- fread("cat " %%% fgwas.outfile %%%" | zmore") %% dplyr::select(one_of("id","PPA","chunk")
names(fgwas.df) <- c("SNPID", "PPA.fgwas", "SEGNUMBER")</pre>
fgwas.df$SEGNUMBER <- fgwas.df$SEGNUMBER + 1 # fgwas file is O-based
cred.df <- inner_join(cred.df,fgwas.df,by="SNPID")</pre>
cred.df <- cred.df[(cred.df$SEGNUMBER.x == cred.df$SEGNUMBER.y),]</pre>
cred.df <- mutate(cred.df, change=PPA.fgwas-PPA) %>% arrange(desc(change))
```

```
cred.df <- dplyr::select(cred.df, -SEGNUMBER.y)
names(cred.df)[which(names(cred.df)=="SEGNUMBER.x")] = "SEGNUMBER"
saveRDS(cred.df,file=rds.dir%&%"fgwas.cred.metab.df.RDS")</pre>
```