make\_properties\_summary\_table.R

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@title @param merged\_results

make\_properties\_summary\_table <- function(merged\_results) {  
  
## Rows - Measures  
   
## Columns - Properties of measures  
 # True Positive Detection - Sum all true positives  
 # False Positive Detection - Sum all false positives  
 # True Negative Detection - Sum all true negatives  
 # Effect of Allele Proportion Position   
 # Effect of Allele proportion difference  
   
  
 #Get full data set of all simulations  
 data <- merged\_results  
   
 #Vector stating the order you want the measures to be displayed  
 measure\_order <- c("H1b.MI.AvLast", "H1b.MI.AvFirst",  
 "H2b.GST.AvLast", "H2b.GST.AvFirst",  
 "D2b.A.AvFirst","BC.AvLast")  
   
 #Filter down to the six best measures  
 data <- data %>%  
 filter(Measure %in% measure\_order)  
   
 #Make a column for false positives  
 #When step is zero, all steps detected are false  
 #Otherwise only those not at 0.5 are false  
 data <- data %>%  
 mutate(false\_pos = ifelse(step == 0, Total.Steps, Incorrect.Steps),  
 true\_pos = ifelse(step == 0, NA, Correct.Steps),  
 true\_neg = ifelse(step == 0, 100 - Total.Steps, NA))  
  
   
   
 data\_filt <- data %>%  
 filter(  
 (p.start == 0 & p.end == 1) |  
 (p.start == 0.1 & p.end == 0.9) |  
 (p.start == 0 & p.end == 0.5) |  
 (p.start == 0 & p.end == 0.2) |  
 (p.start == 0.3 & p.end == 0.5)  
 ) %>%  
 group\_by(Measure) %>%  
 summarise(true\_pos\_mean = round(mean(true\_pos, na.rm = T), digits = 1),   
 false\_pos\_mean = round(mean(false\_pos, na.rm = T), digits = 1),   
 true\_neg\_mean = round(mean(true\_neg, na.rm = T), digits = 1))  
   
   
 data\_filt <- data\_filt %>%  
 mutate(Measure = factor(Measure, levels = measure\_order)) %>%  
 arrange(Measure)  
   
  
 #create basic table  
 results\_table <- data\_filt %>%  
 kbl(col.names = c("Measures", "True Positive Detection",  
 "False Positive Detection",   
 "True Negative Detection")) %>%  
 kable\_classic(full\_width = F, html\_font = "Cambria")   
   
 save\_kable(results\_table, file = "./Outputs/properties\_summary\_table.html")  
   
 return(results\_table)  
 }