

# Supplementary figures

## Miami plots

### MBMS full cohort Miami plots



Figure 1: MBMS Black NH Miami plots



Figure 2: MBMS white NH Miami plots

## MESA full cohort Miami plots



Figure 3: MESA Black NH Miami plots



Figure 4: MESA Hispanic Miami plots

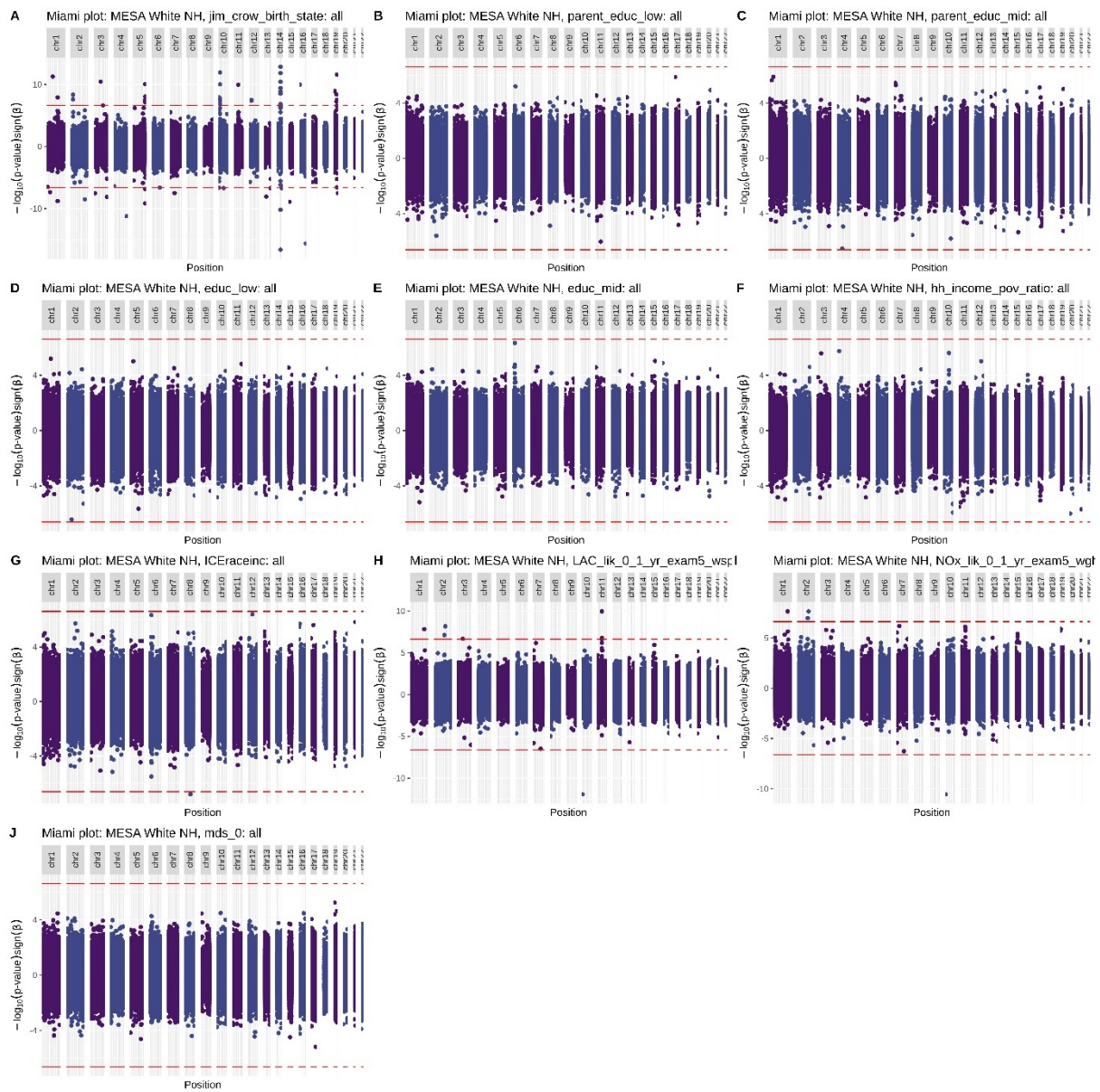


Figure 5: MESA white NH Miami plots

## MESA New York and Baltimore subset Miami plots

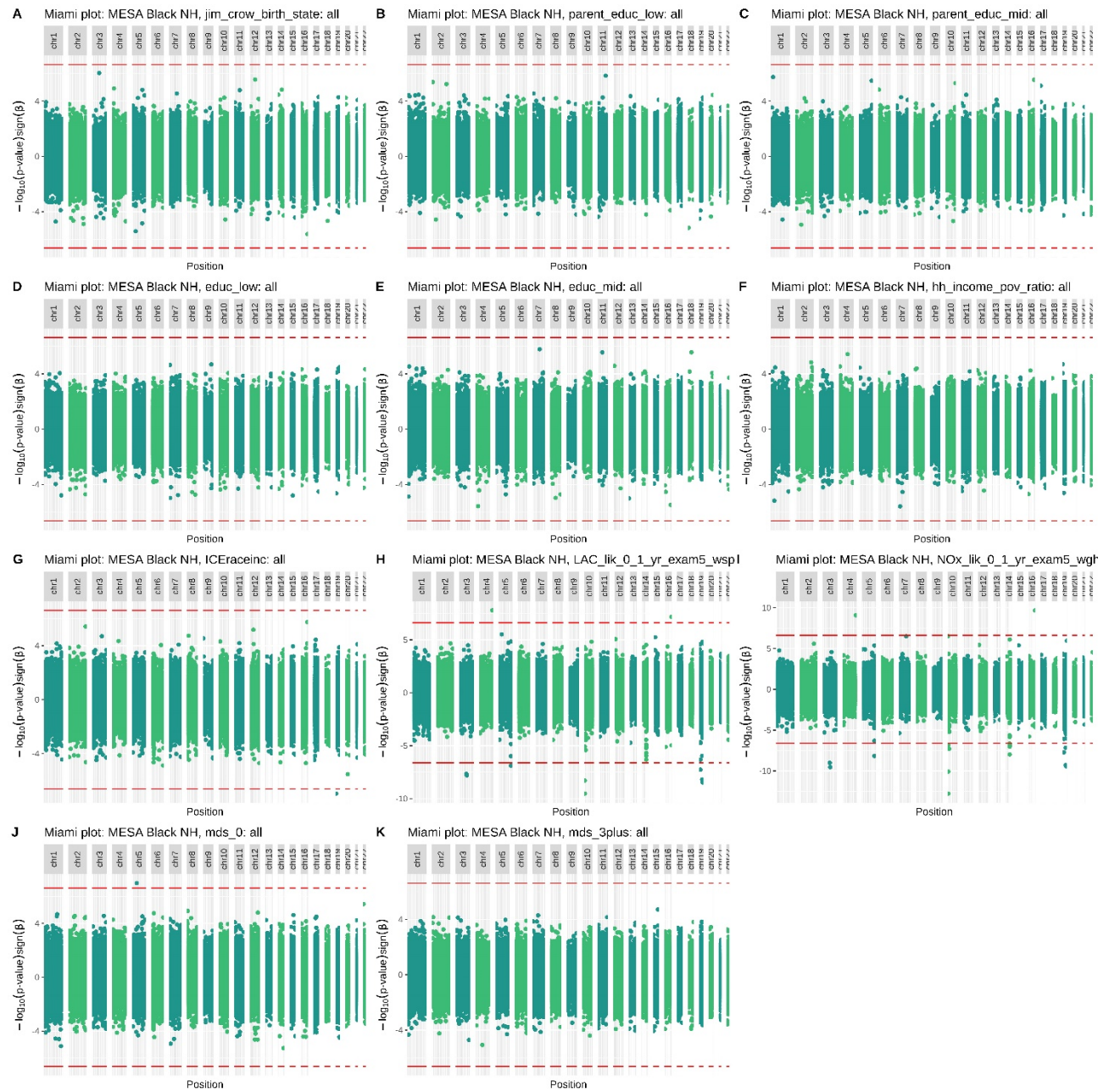


Figure 6: MESA Black NH Miami plots (JHU and COL subgroup)



Figure 7: MESA white NH Miami plots (JHU and COL subgroup)

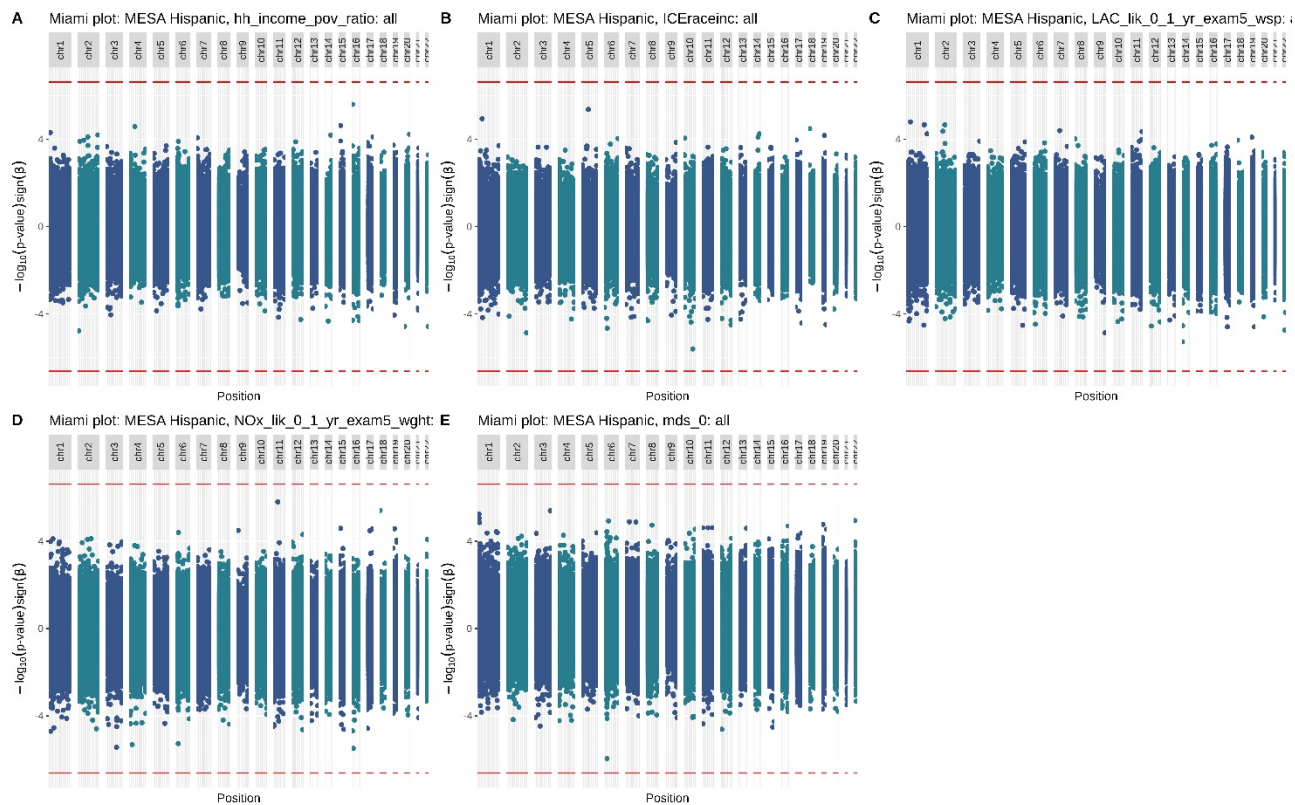


Figure 8: MESA Hispanic Miami plots (JHU and COL subgroup)

## QQ plots

### MBMS full cohort

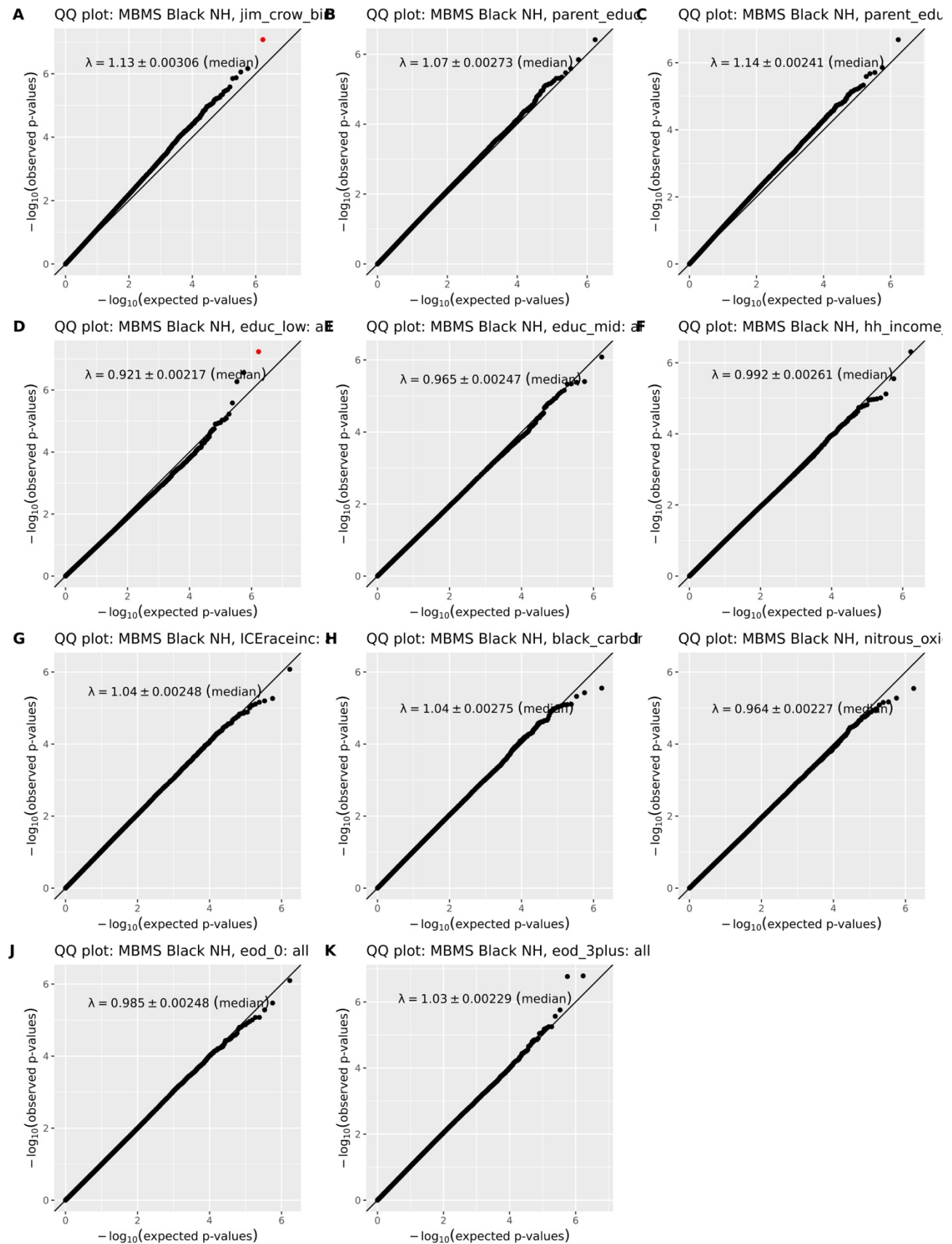


Figure 9: MBMS Black NH QQ plots

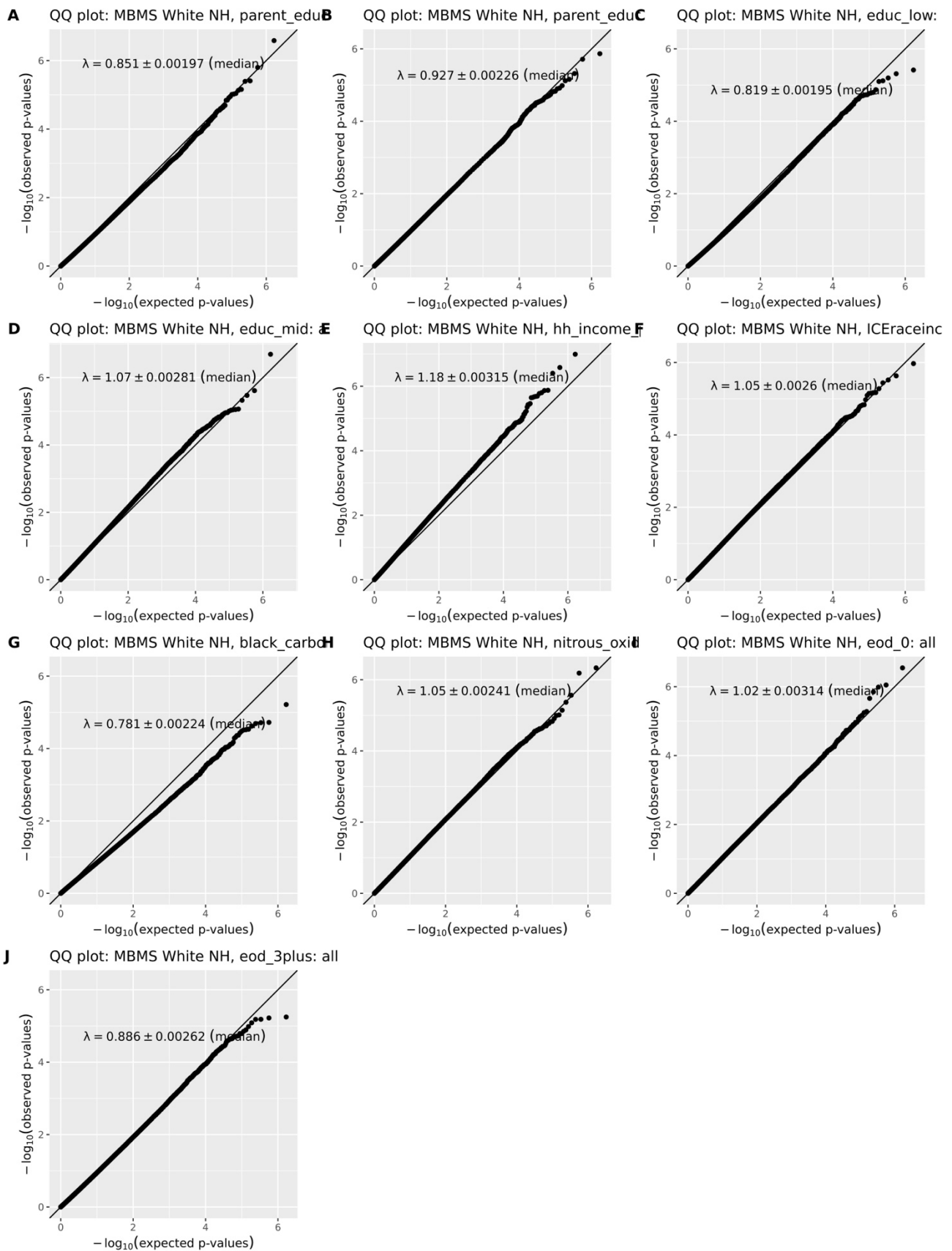


Figure 10: MBMS White NH QQ plots

## MESA full cohort QQ plots

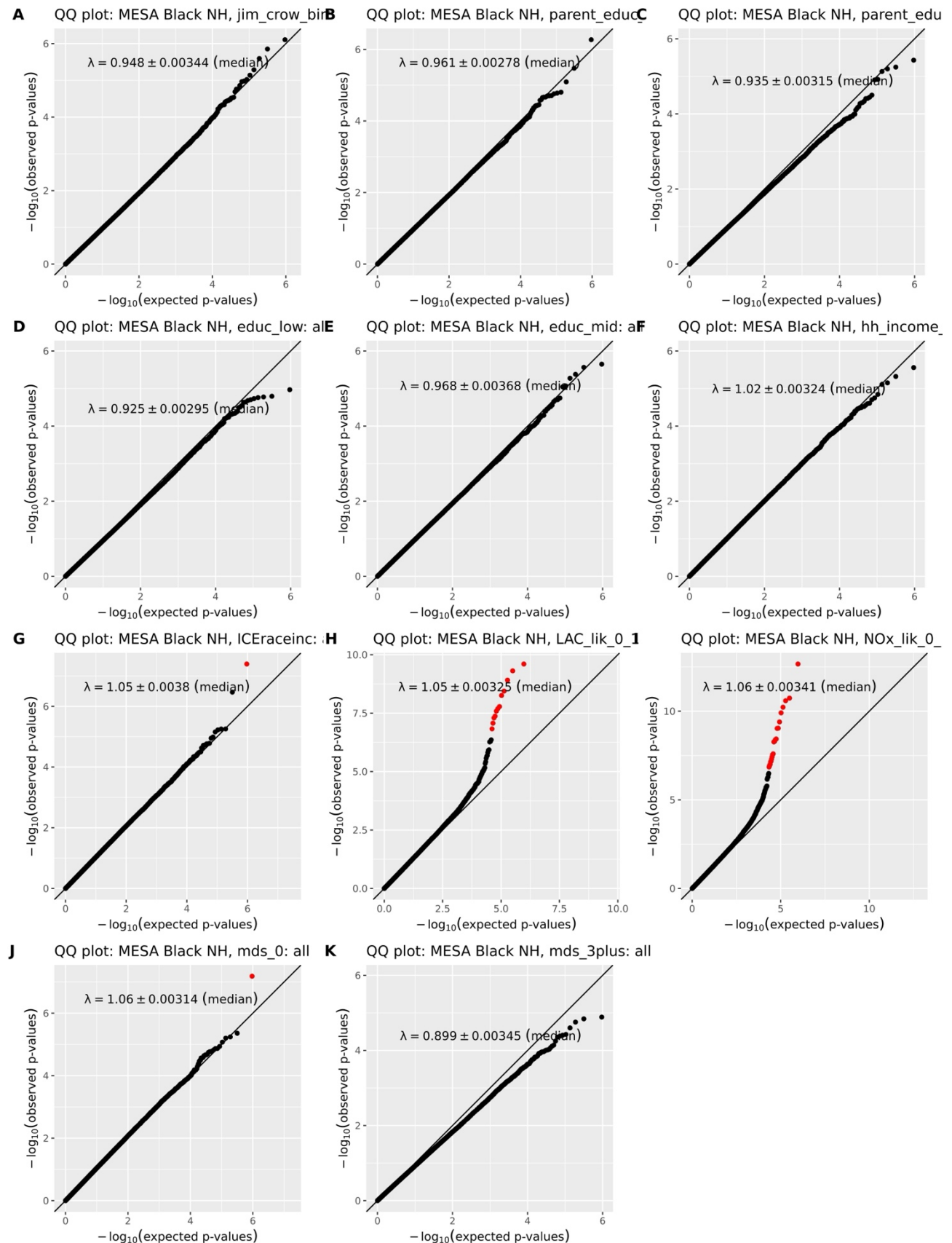


Figure 11: MESA Black NH QQ plots

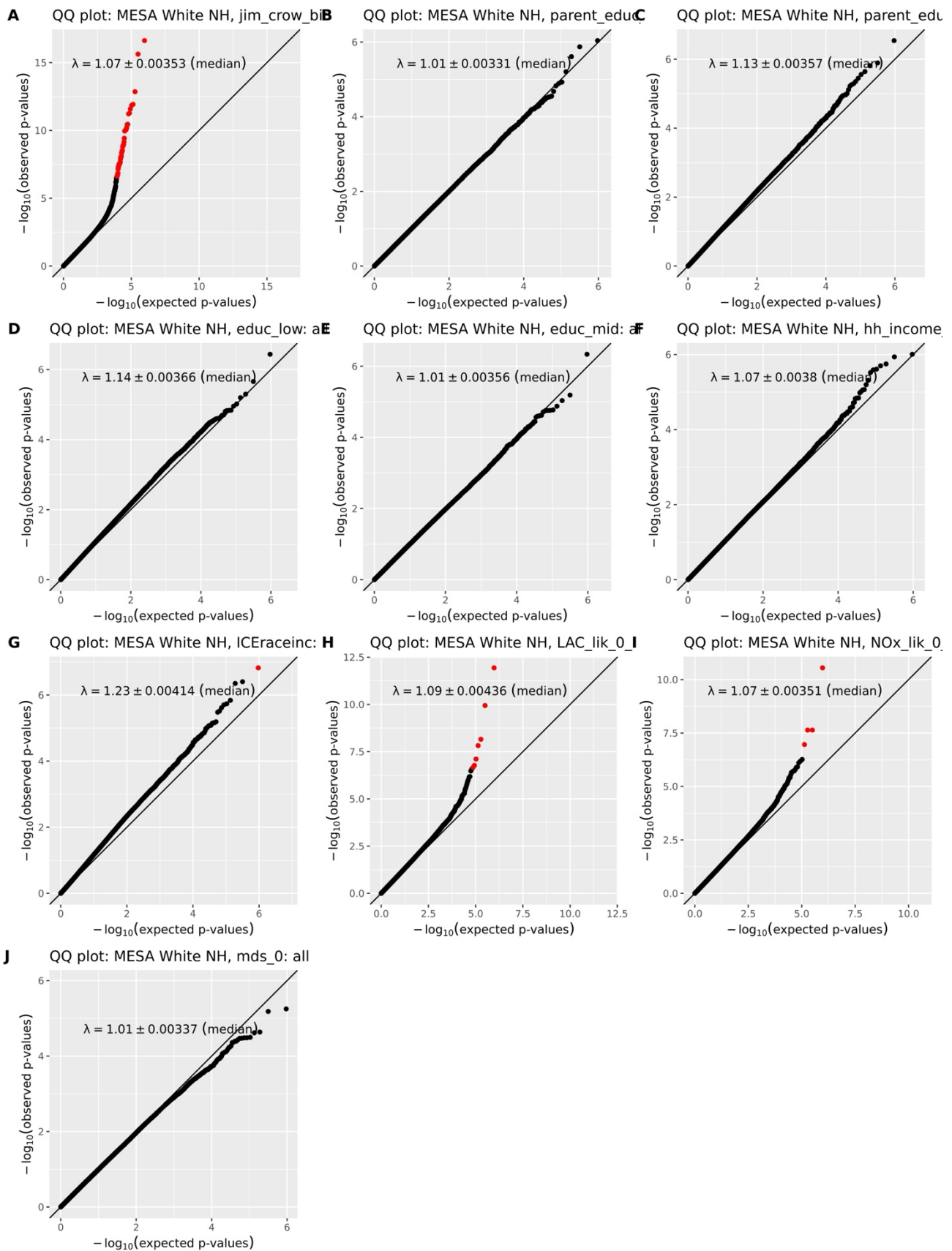


Figure 12: MESA White NH QQ plots

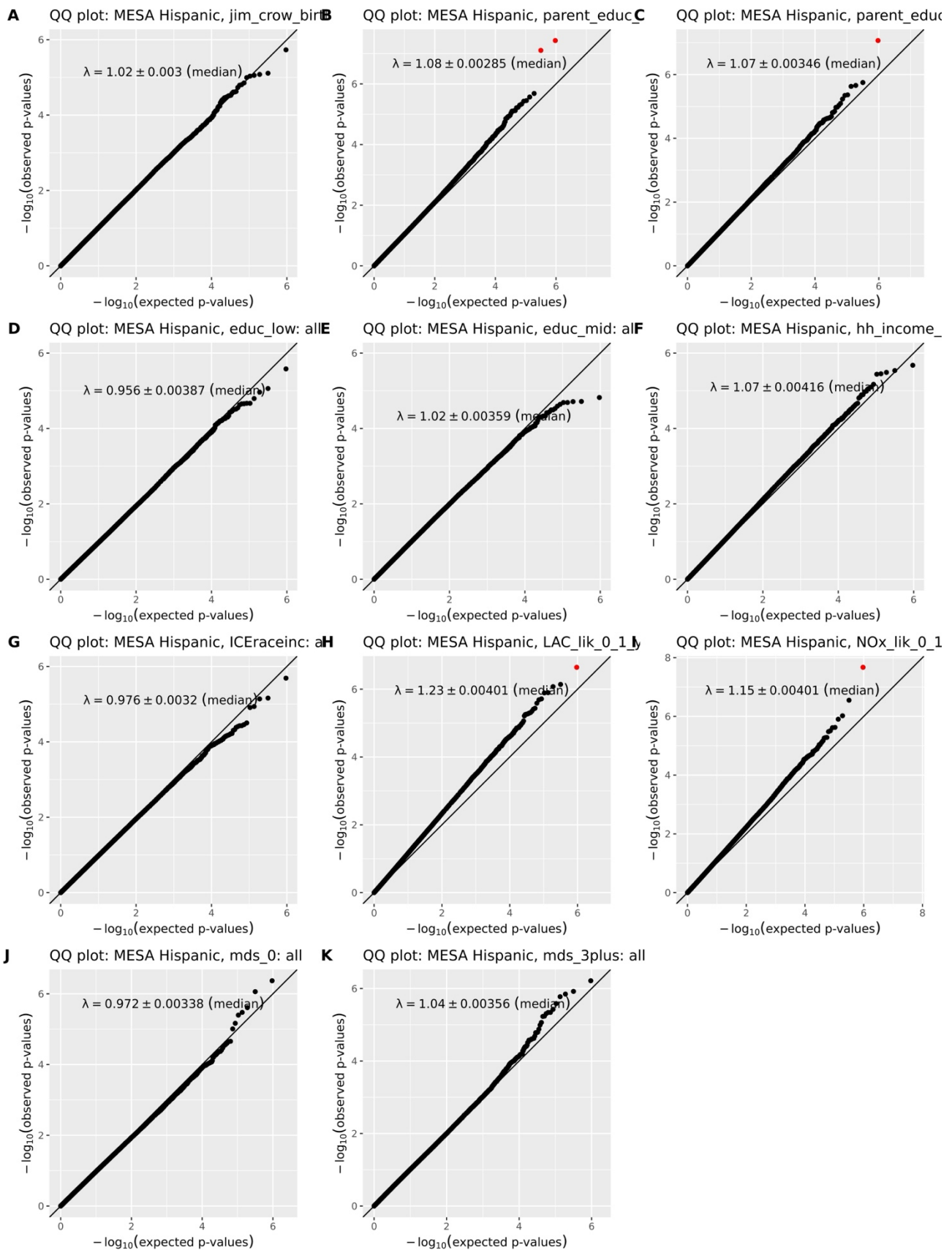


Figure 13: MESA Hispanic QQ plots

## MESA New York and Baltimore subset QQ plots

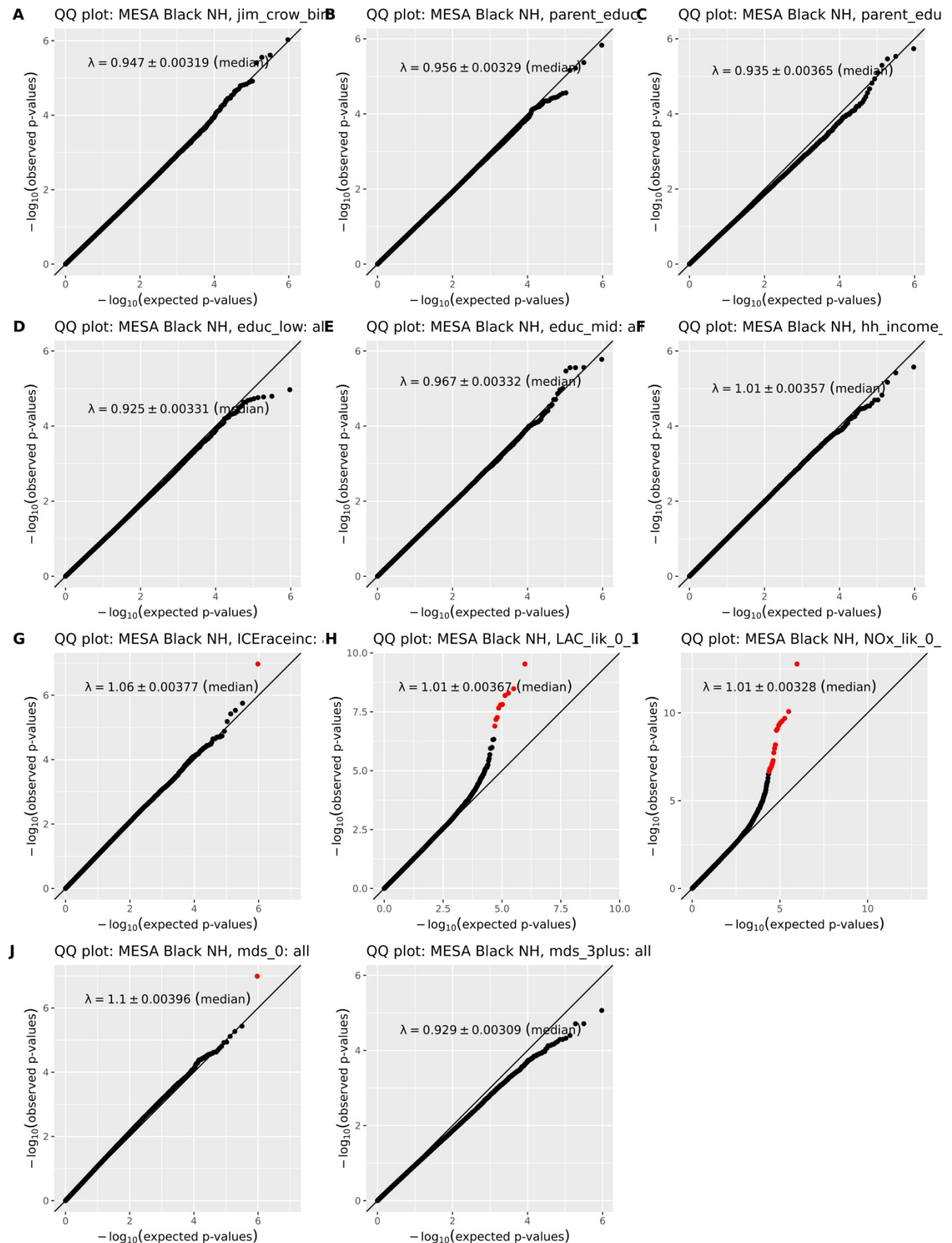


Figure 14: MESA Black NH QQ plots (JHU and COL subgroup)

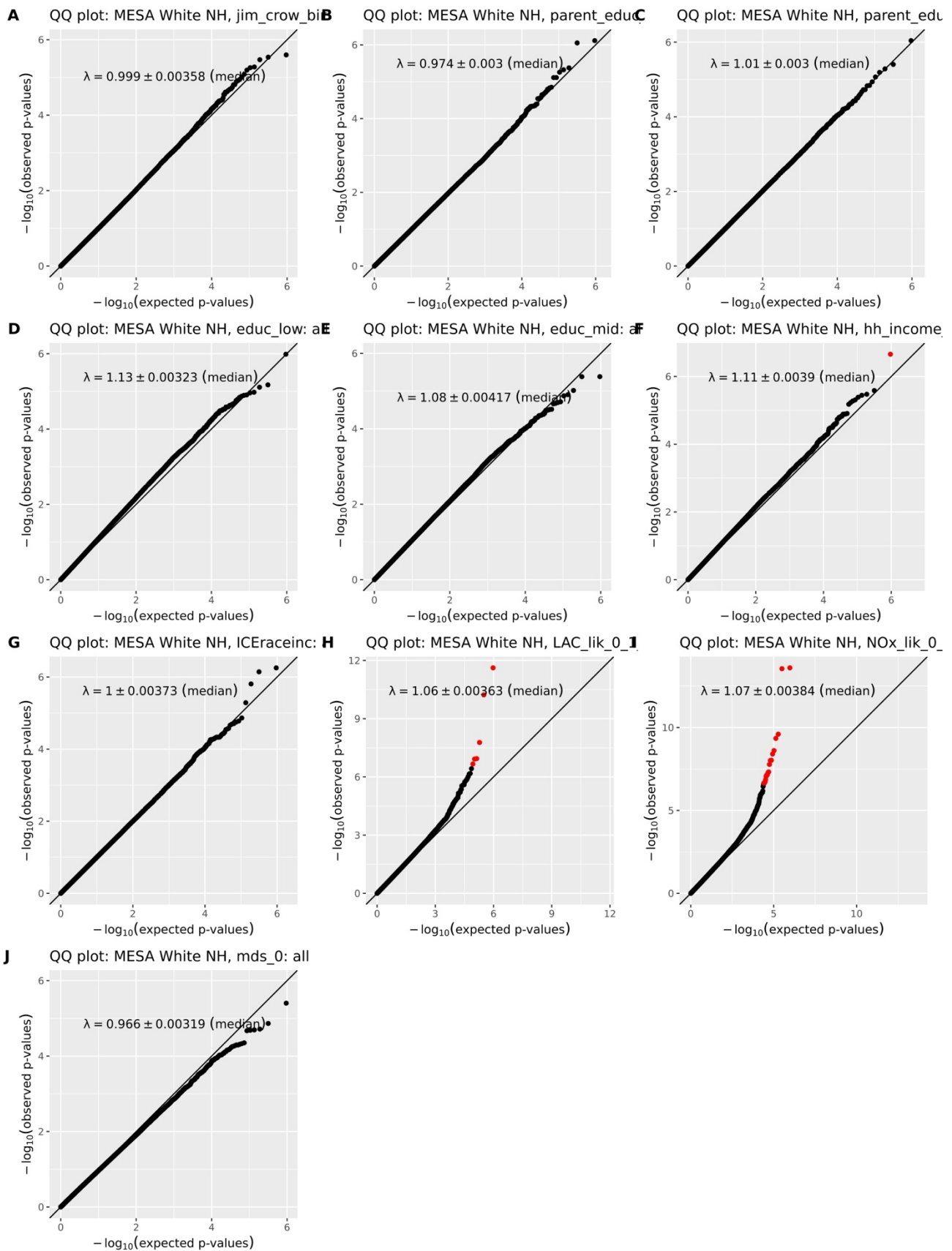


Figure 15: MESA White NH QQ plots (JHU and COL subgroup)

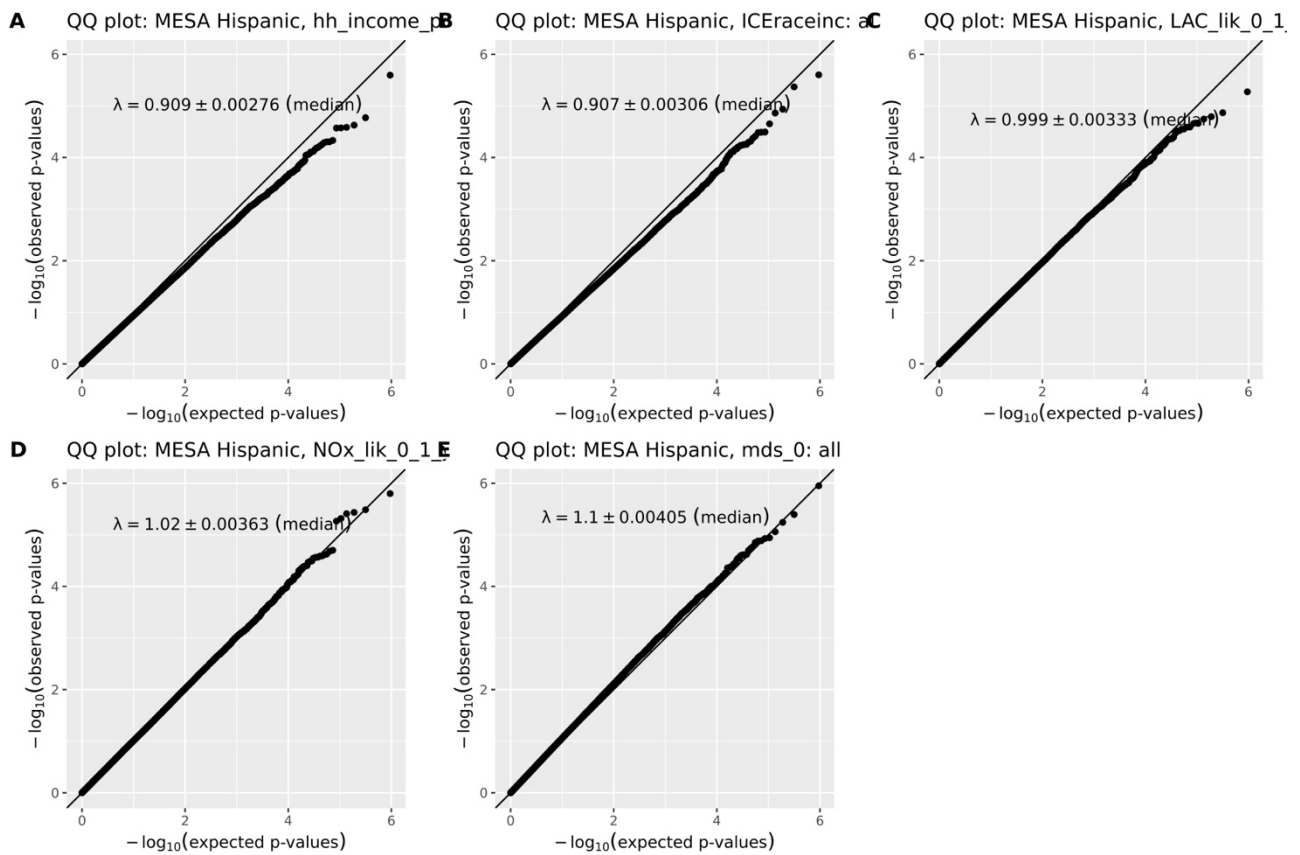


Figure 16: MESA Hispanic QQ plots (JHU and COL subgroup)

## EWAS catalog enrichment plots

### MBMS full cohort

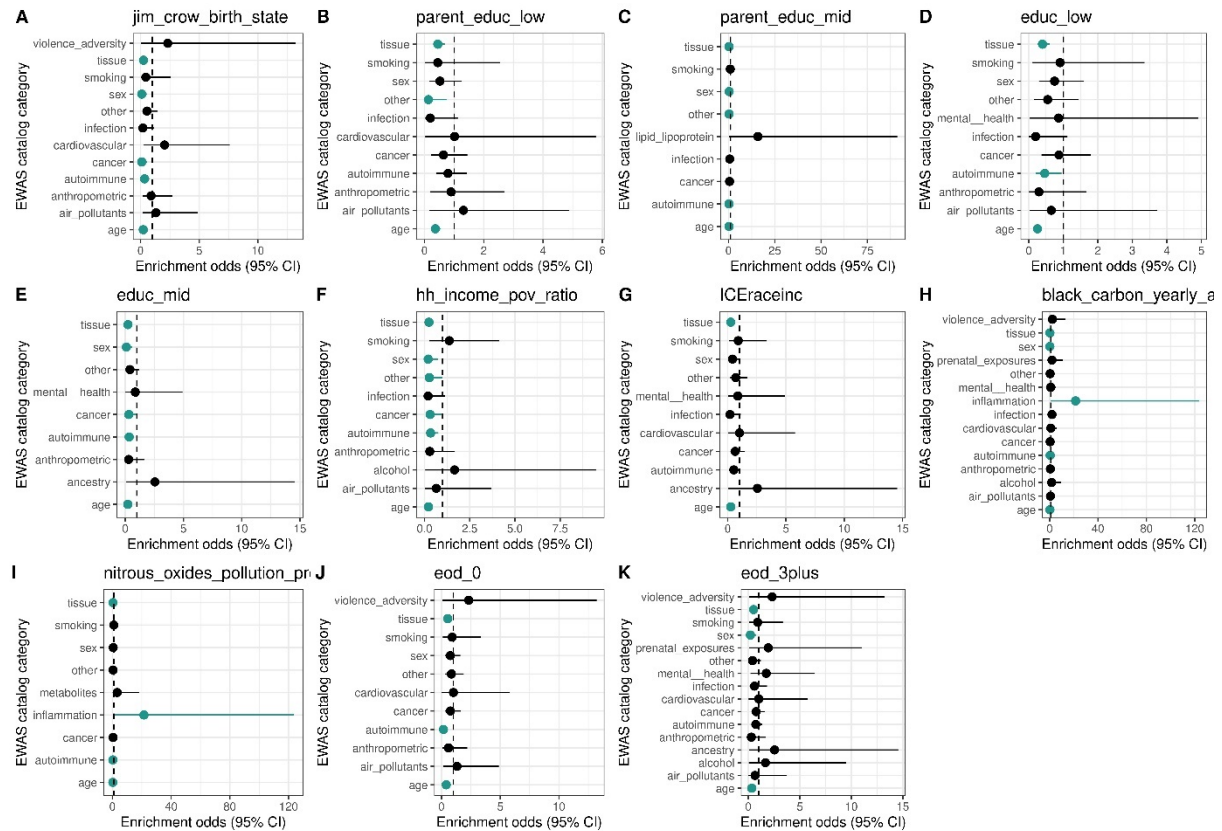


Figure 17: EWAS catalog enrichment plot: MBMS Black NH

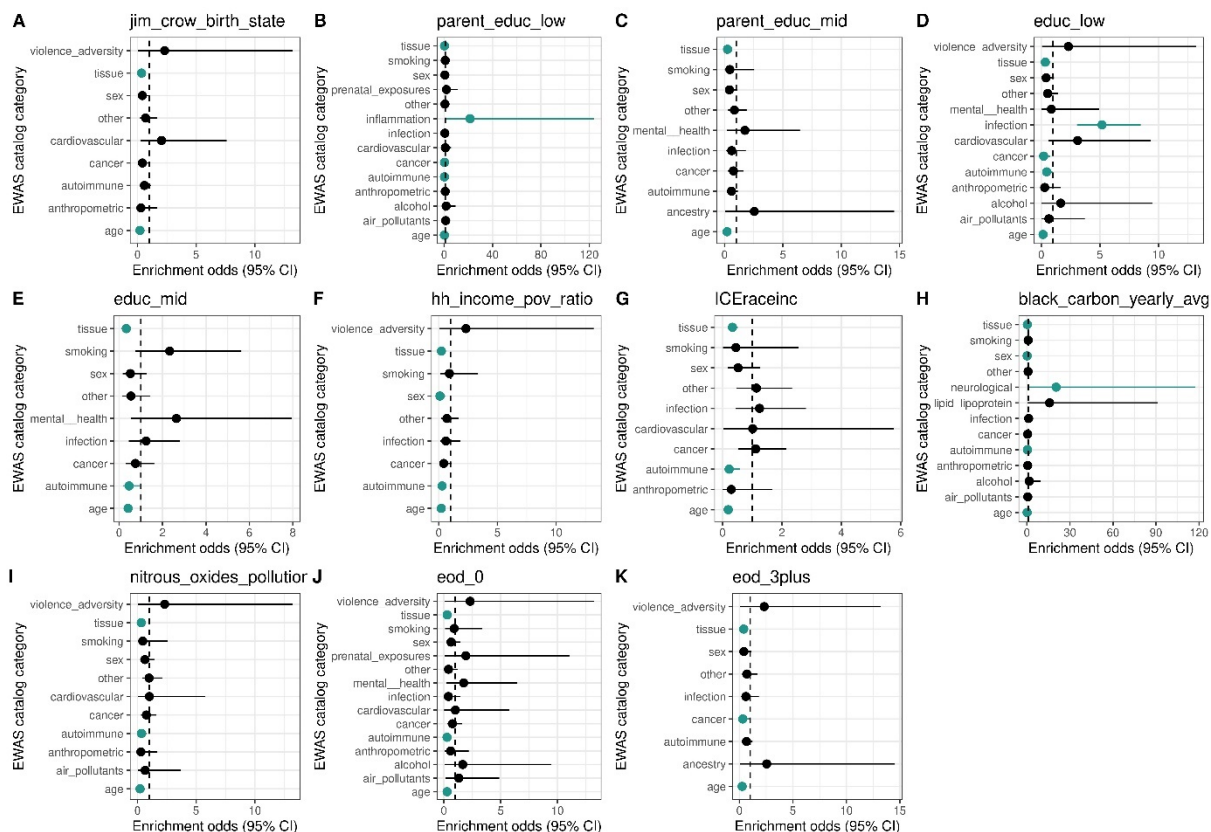


Figure 18: EWAS catalog enrichment plot: MBMS white NH

## MESA full cohort

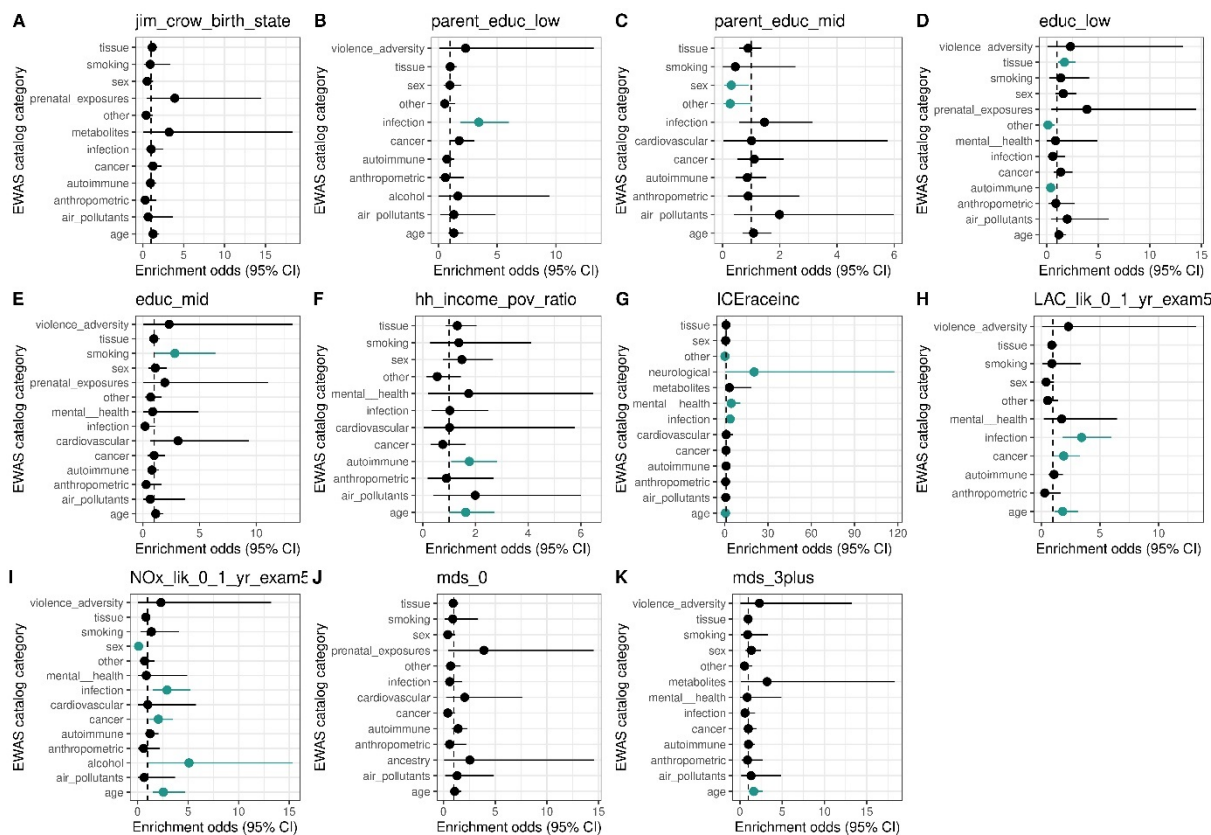


Figure 19: EWAS catalog enrichment plot: MESA Black NH

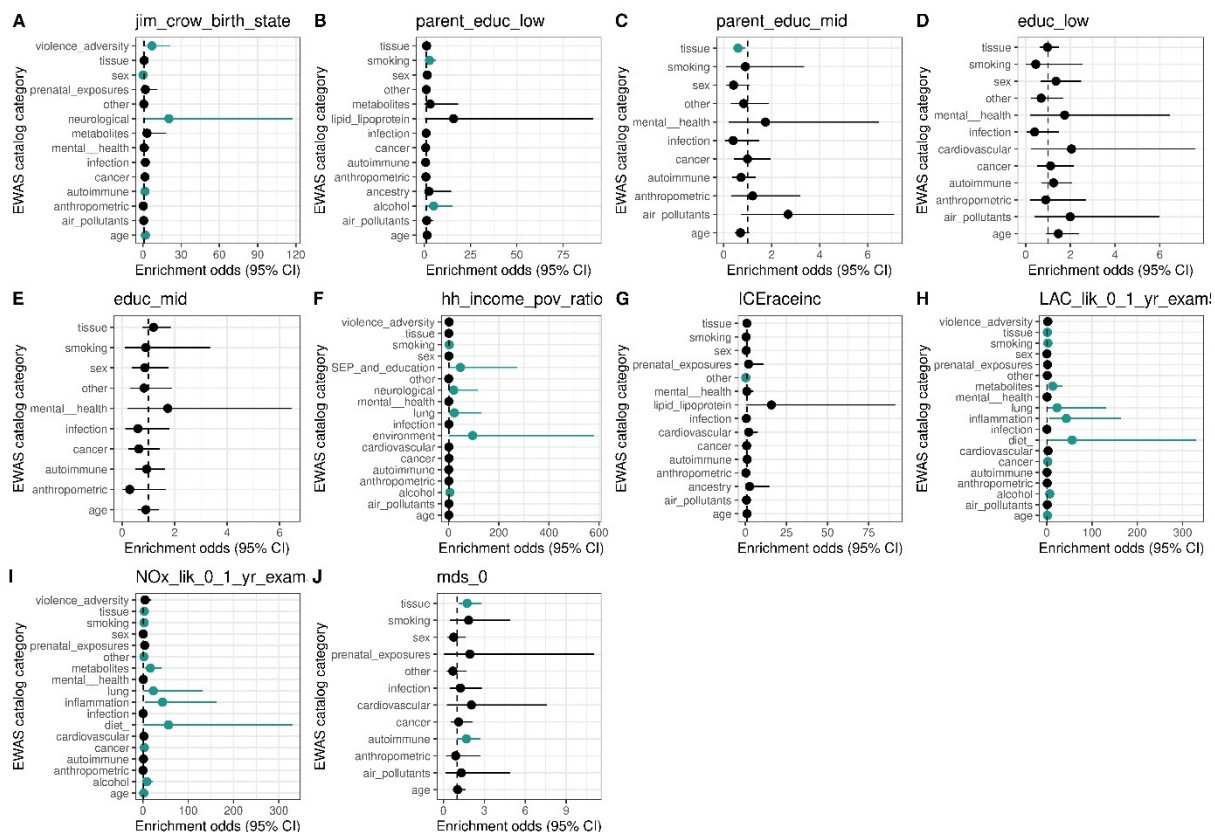


Figure 20: EWAS catalog enrichment plot: MESA white NH

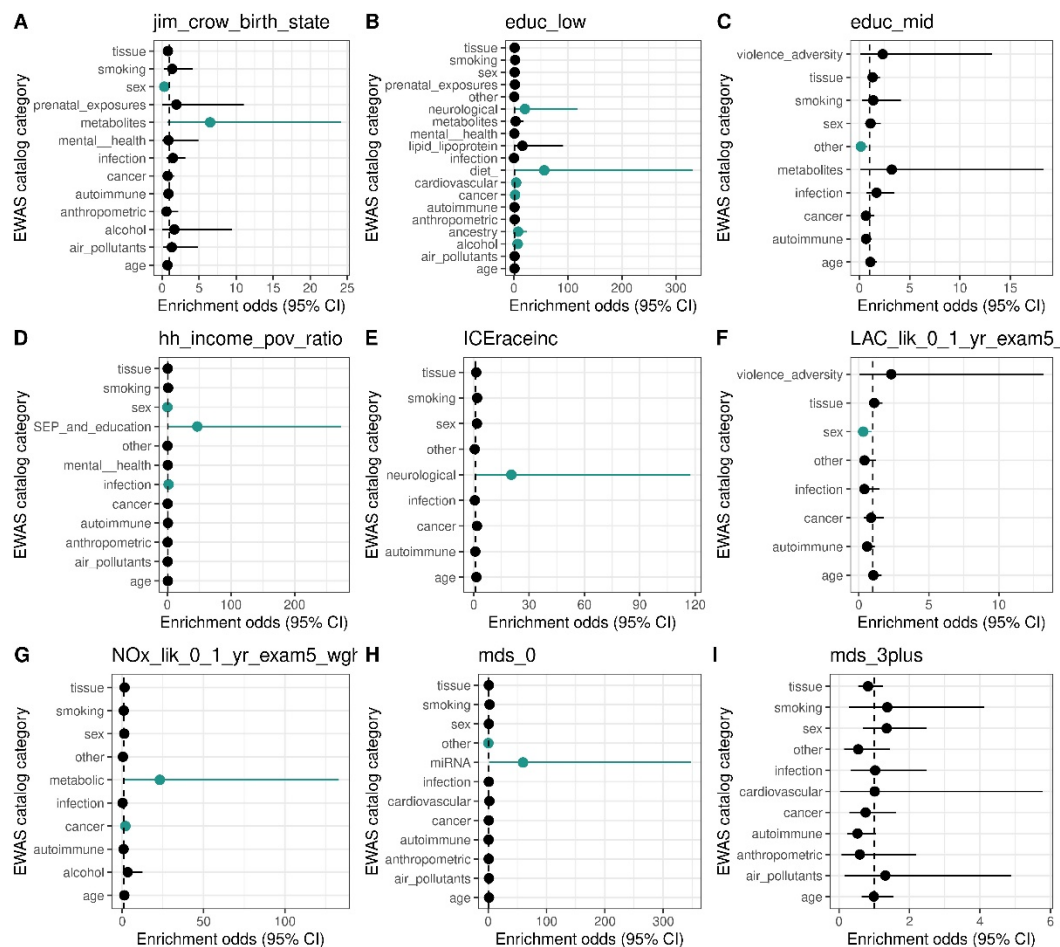


Figure 21: EWAS catalog enrichment plot: MESA Hispanic

## MESA JHU/COL subgroup

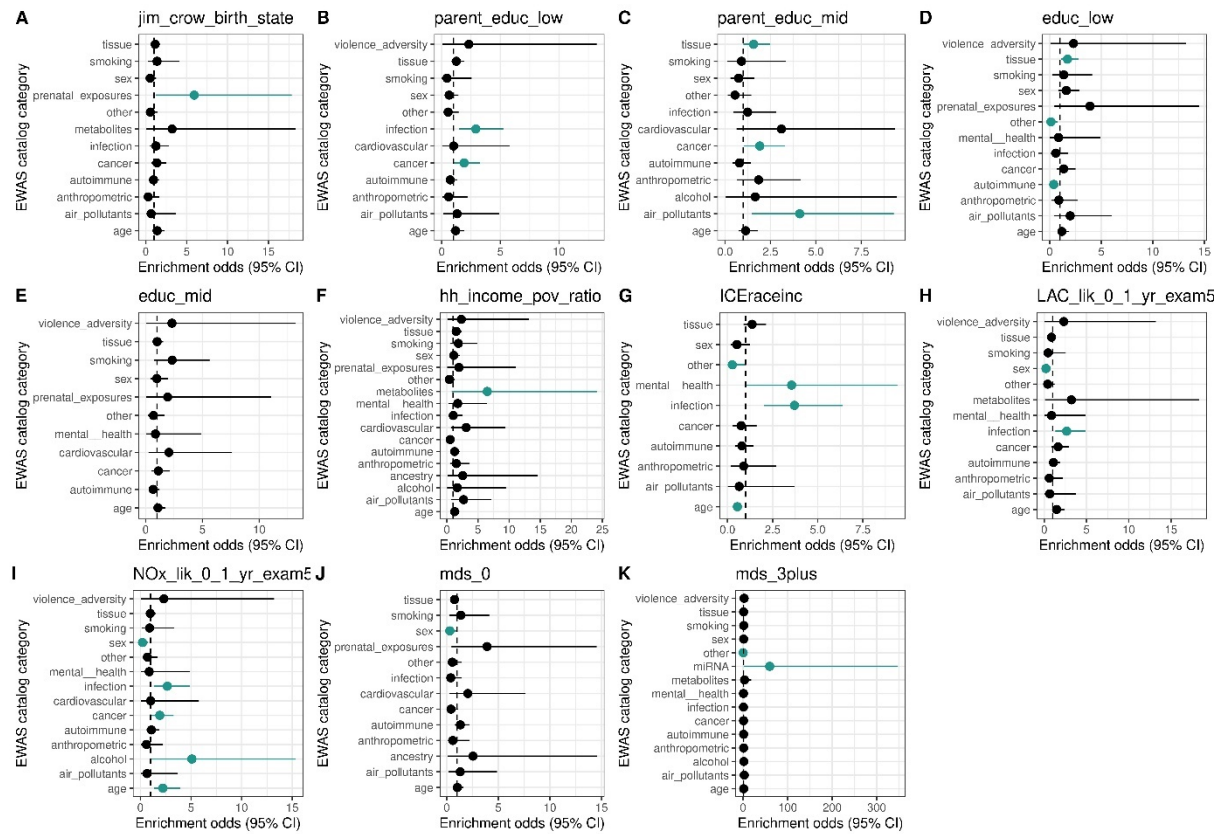


Figure 22: EWAS catalog enrichment plot: MESA Black NH JHU + COL subgroup

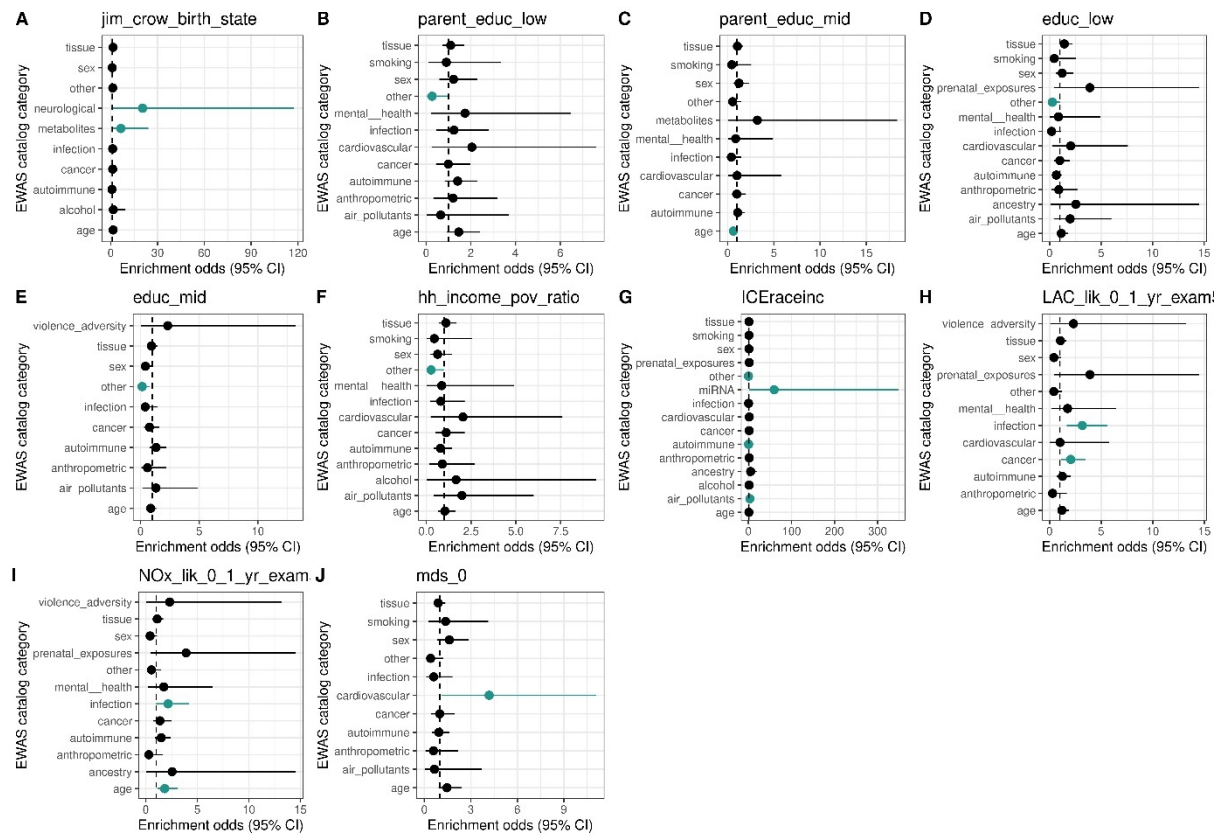


Figure 23: EWAS catalog enrichment plot: MESA white NH JHU + COL subgroup

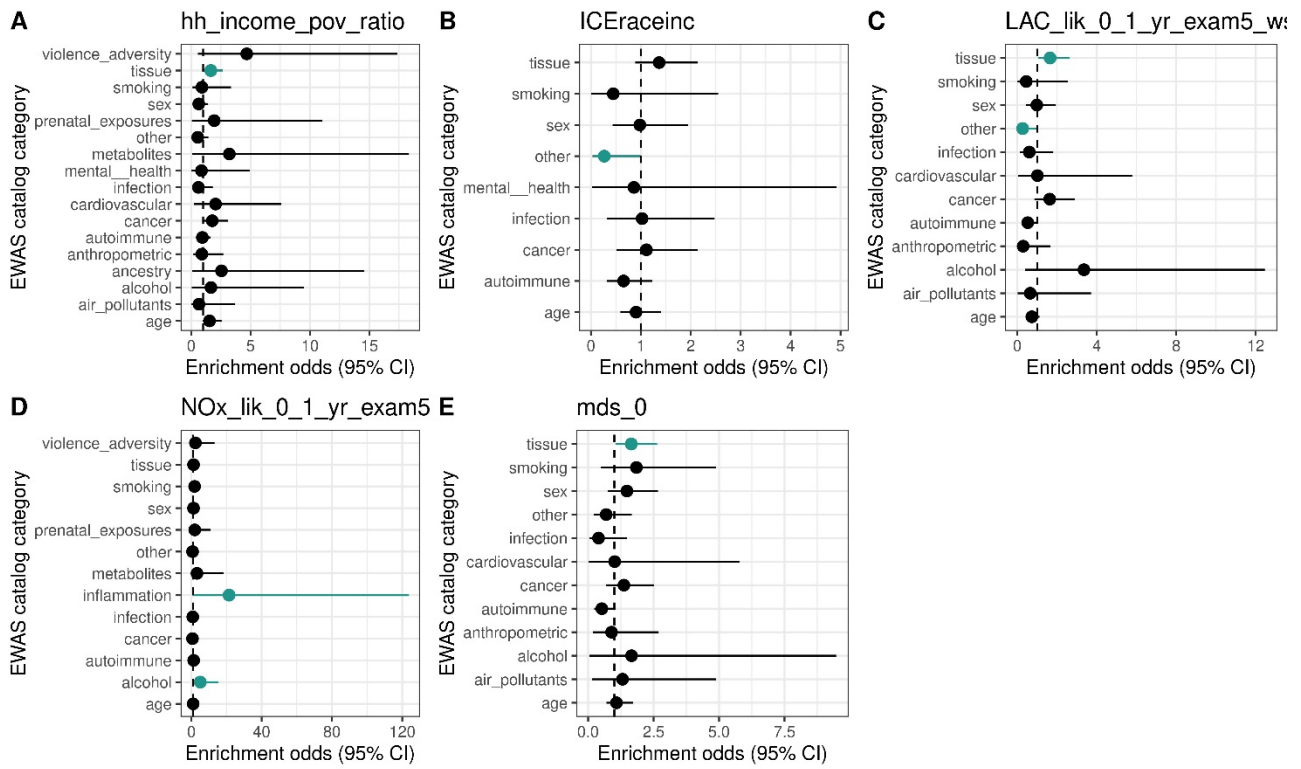


Figure 24: EWAS catalog enrichment plot: MESA Hispanic JHU + COL subgroup

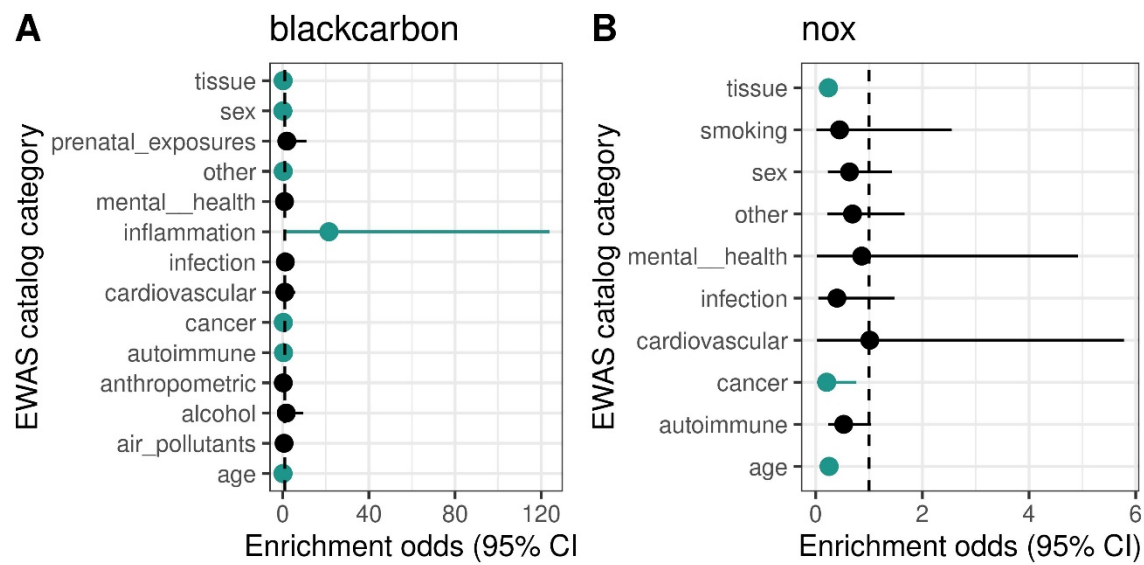


Figure 25: EWAS catalog enrichment plot: MBMS meta-analysis

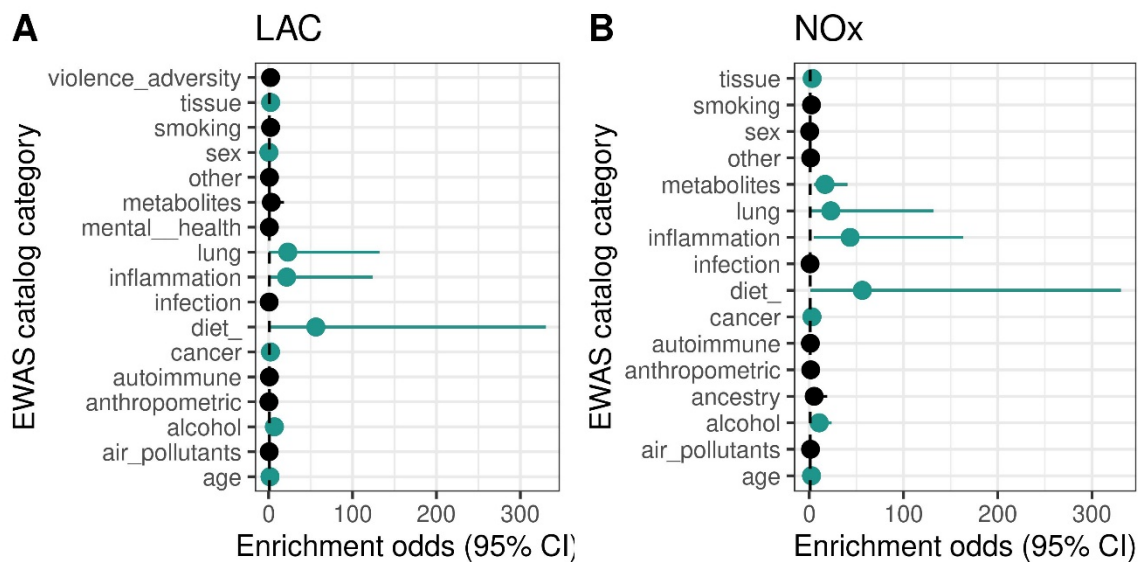


Figure 26: EWAS catalog enrichment plot: MESA meta-analysis

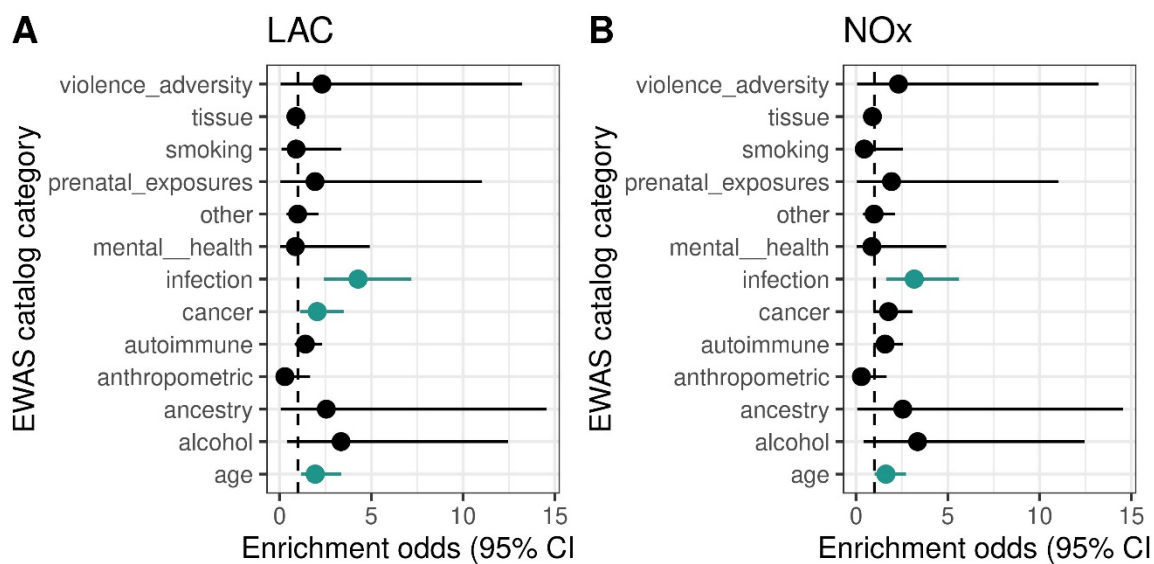
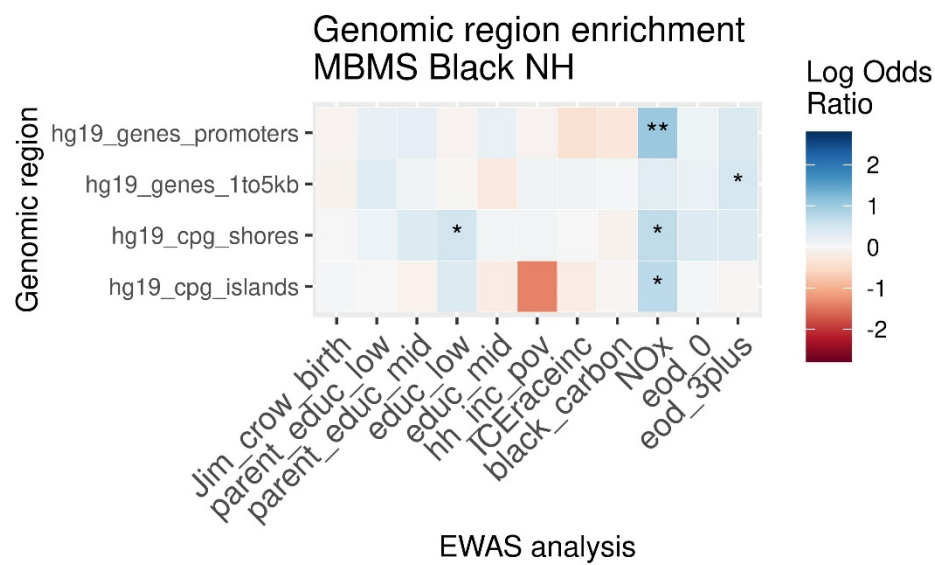
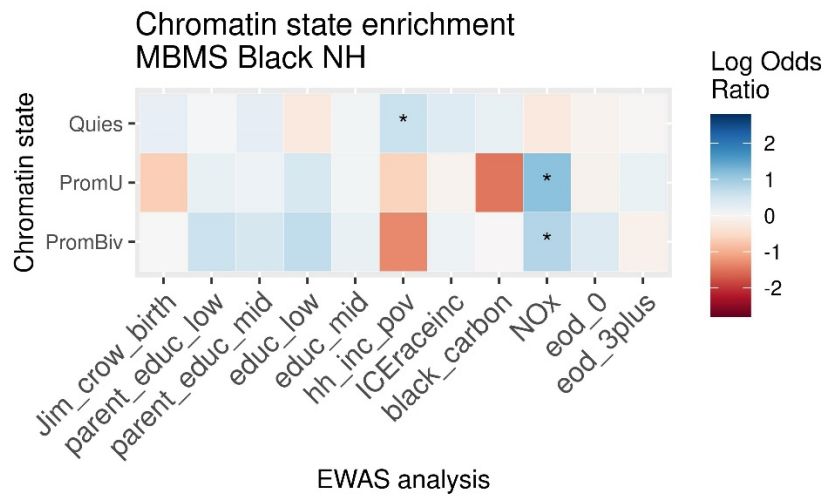


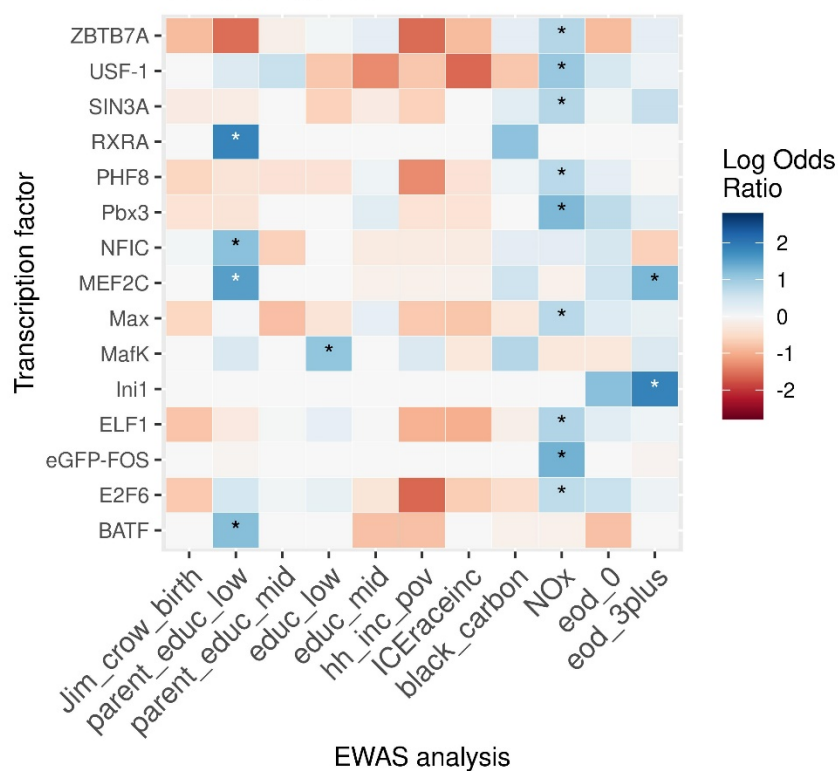
Figure 27: EWAS catalog enrichment plot: MESA meta-analysis (JHU and COL subgroup)

Enrichment for genomic features

MBMS Black NH participants

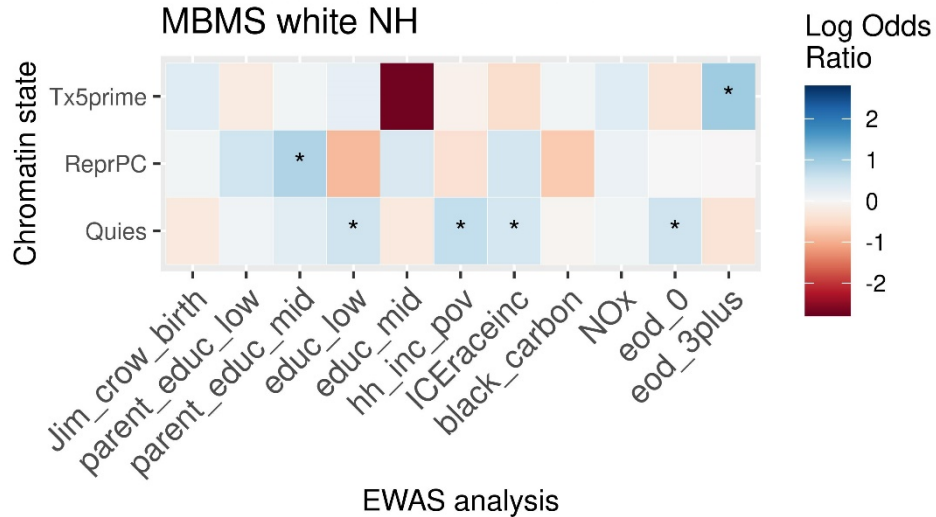


## Transcription factor enrichment MBMS Black NH

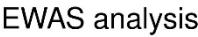


MBMS white NH participants

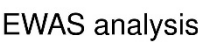
## Chromatin state enrichment MBMS white NH

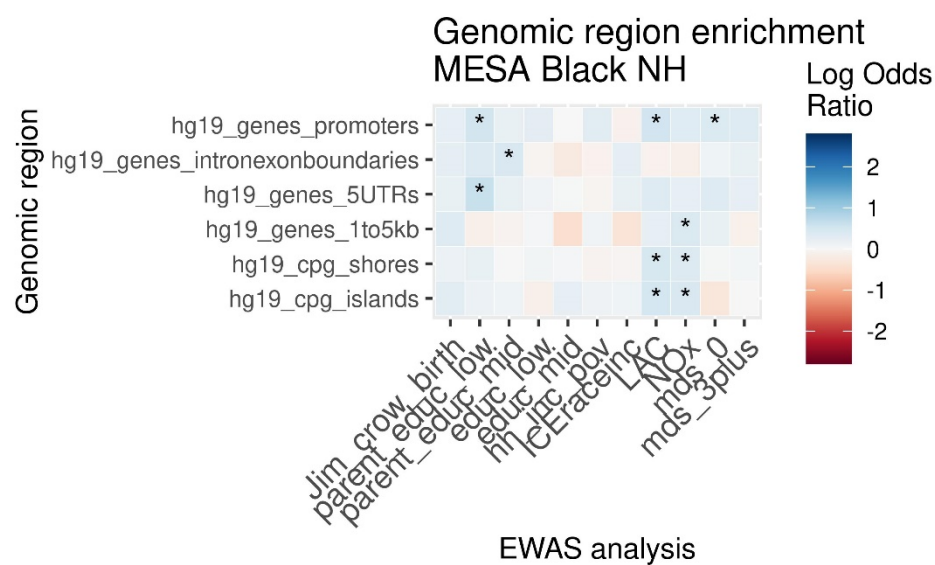
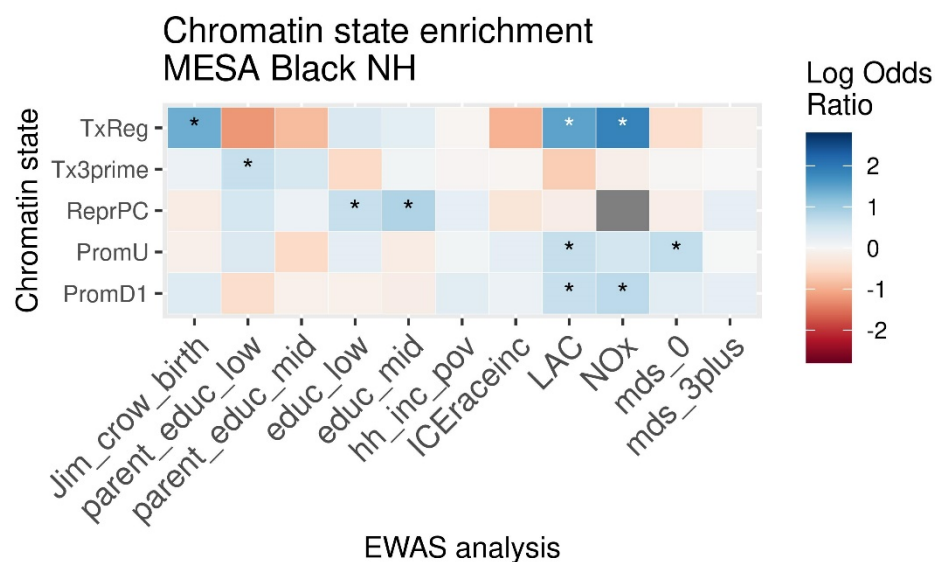


## MBMS White NH

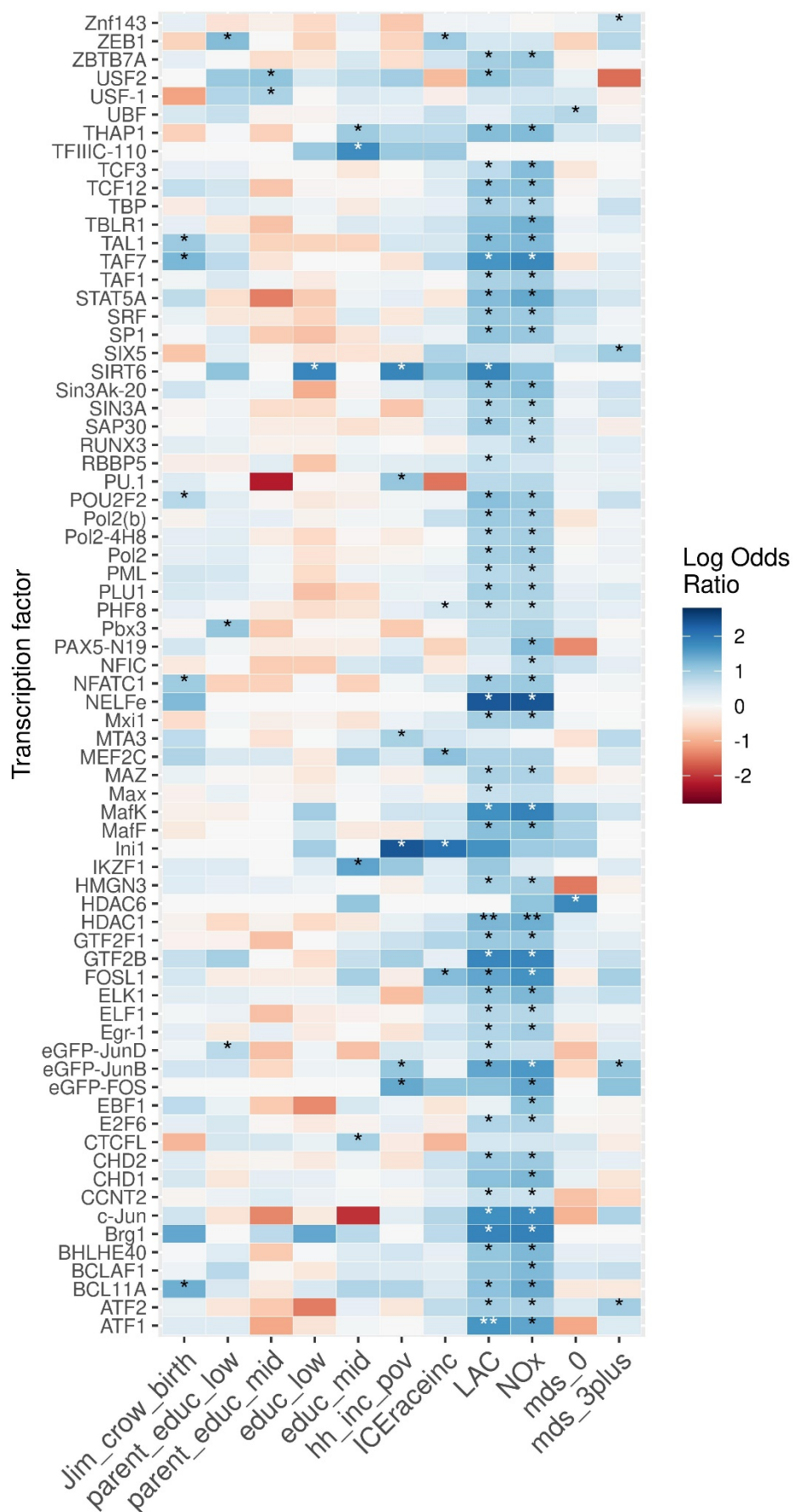


## MBMS White NH



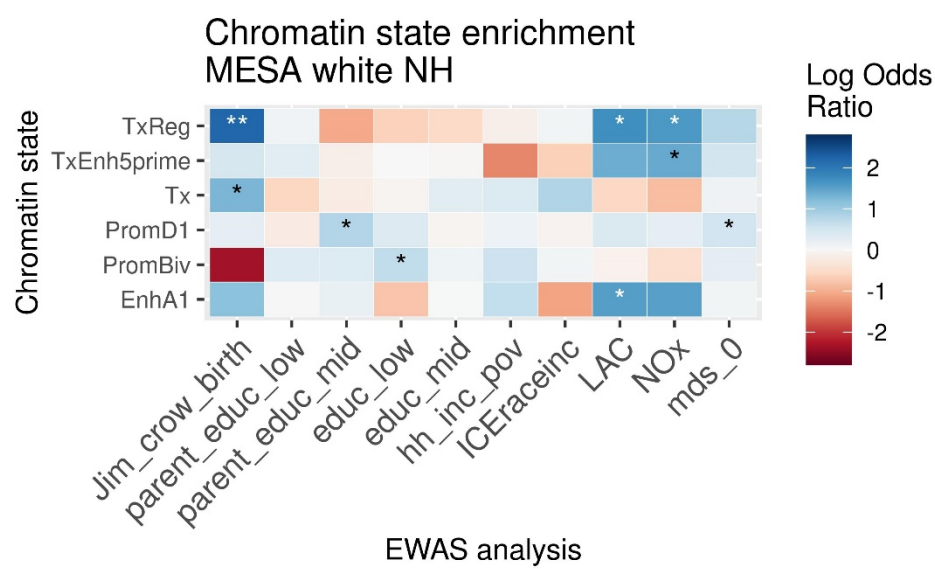


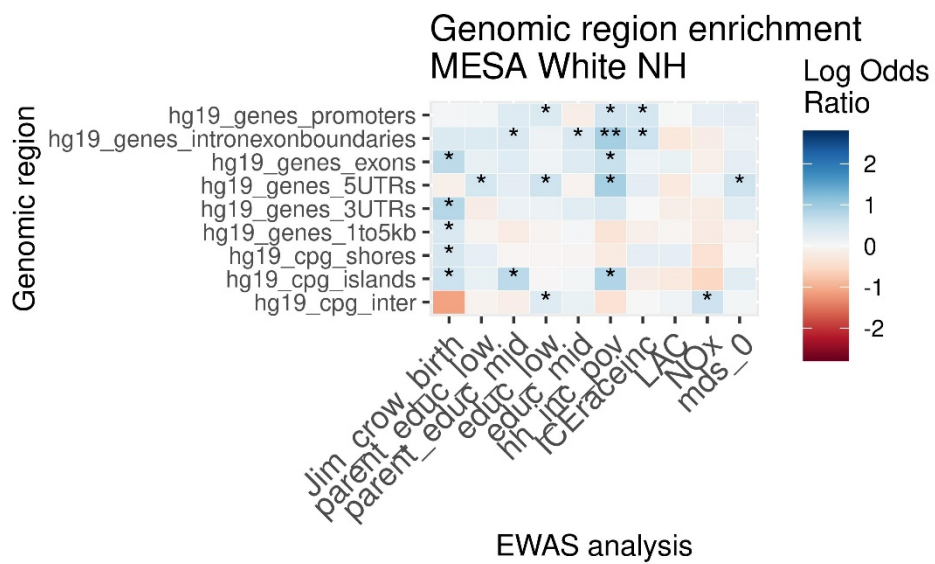
# Transcription factor enrichment MESA Black NH



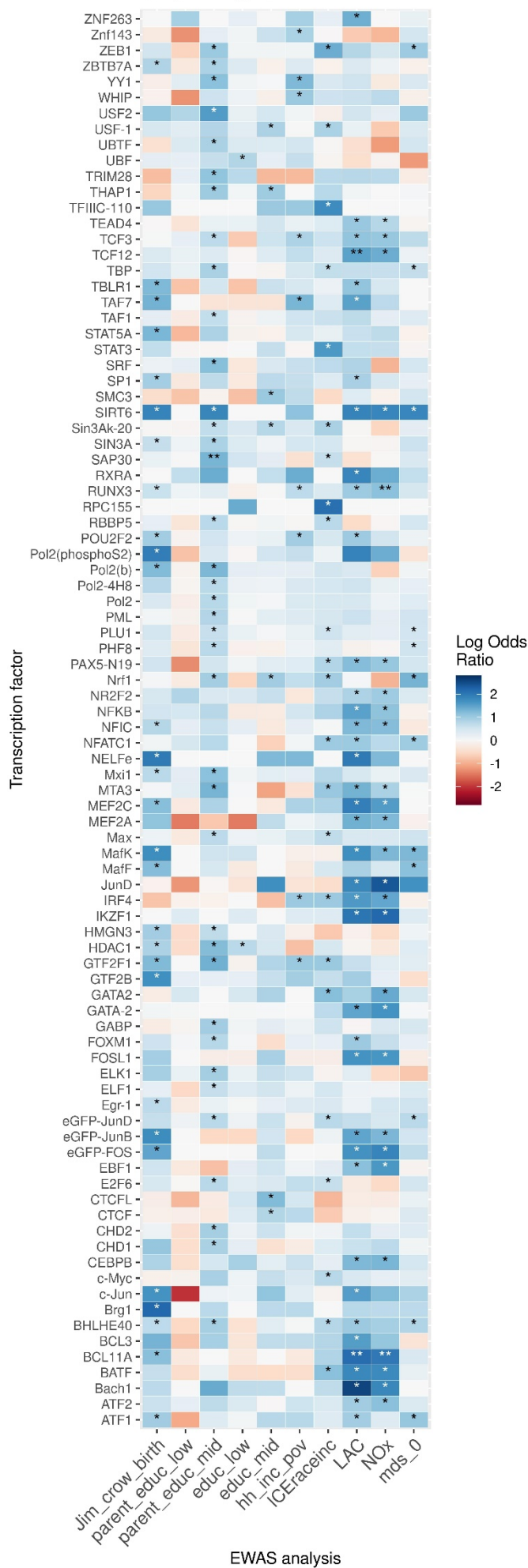
EWAS analysis

MESA white NH participants

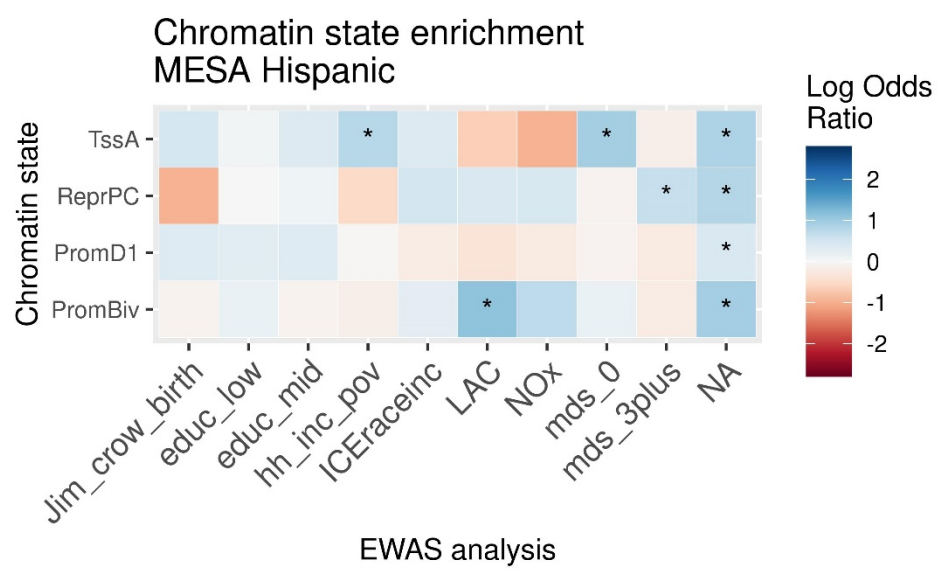


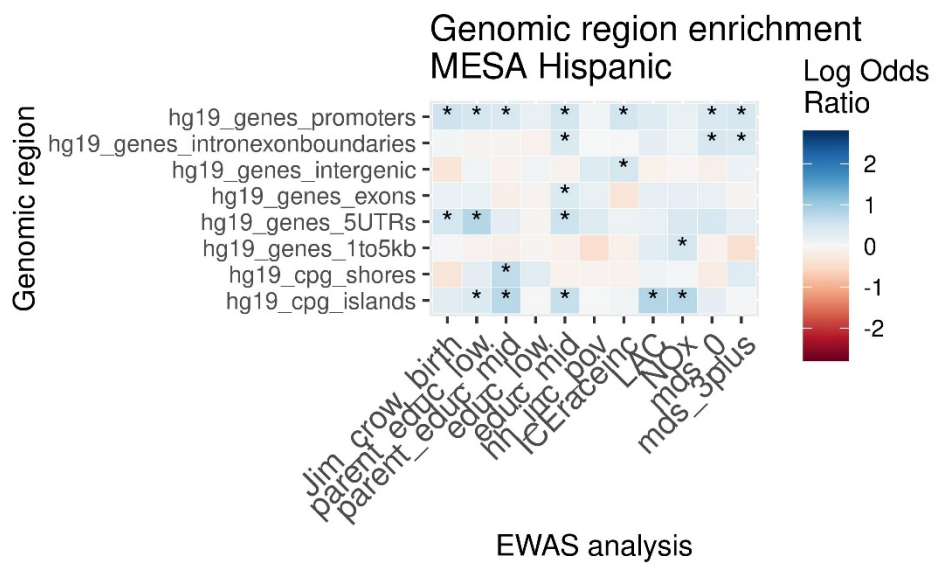


# Transcription factor enrichment MESA White NH

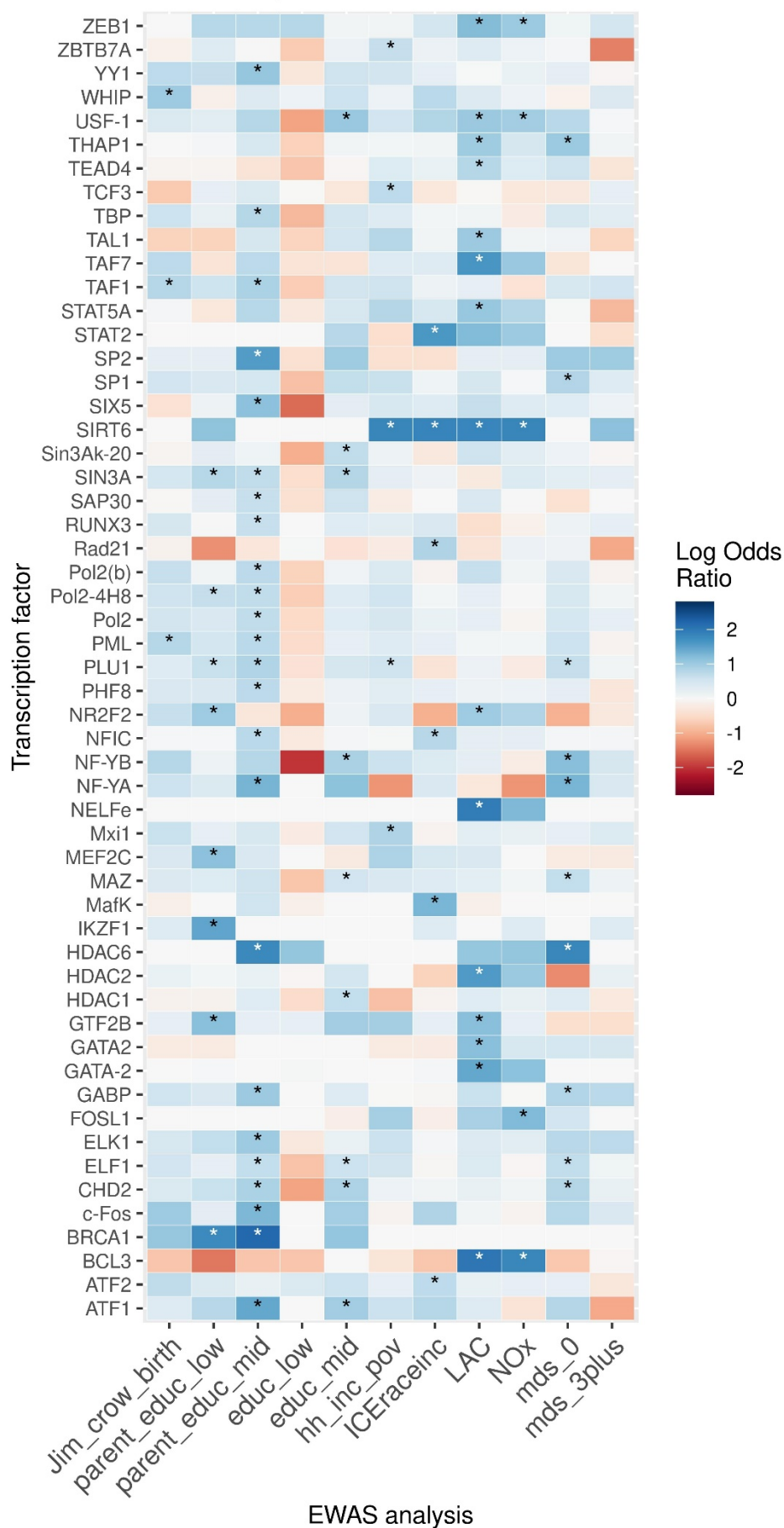


MESA Hispanic participants

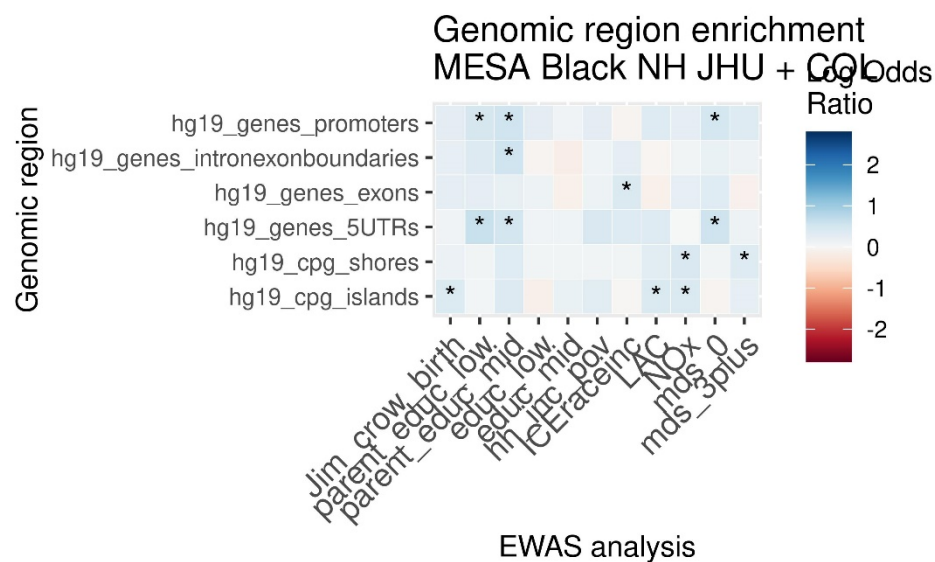
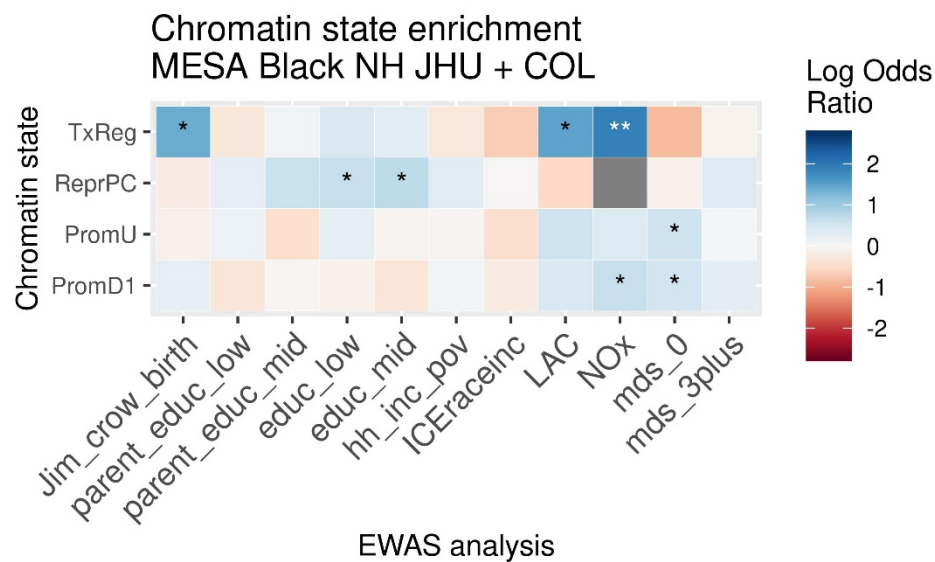




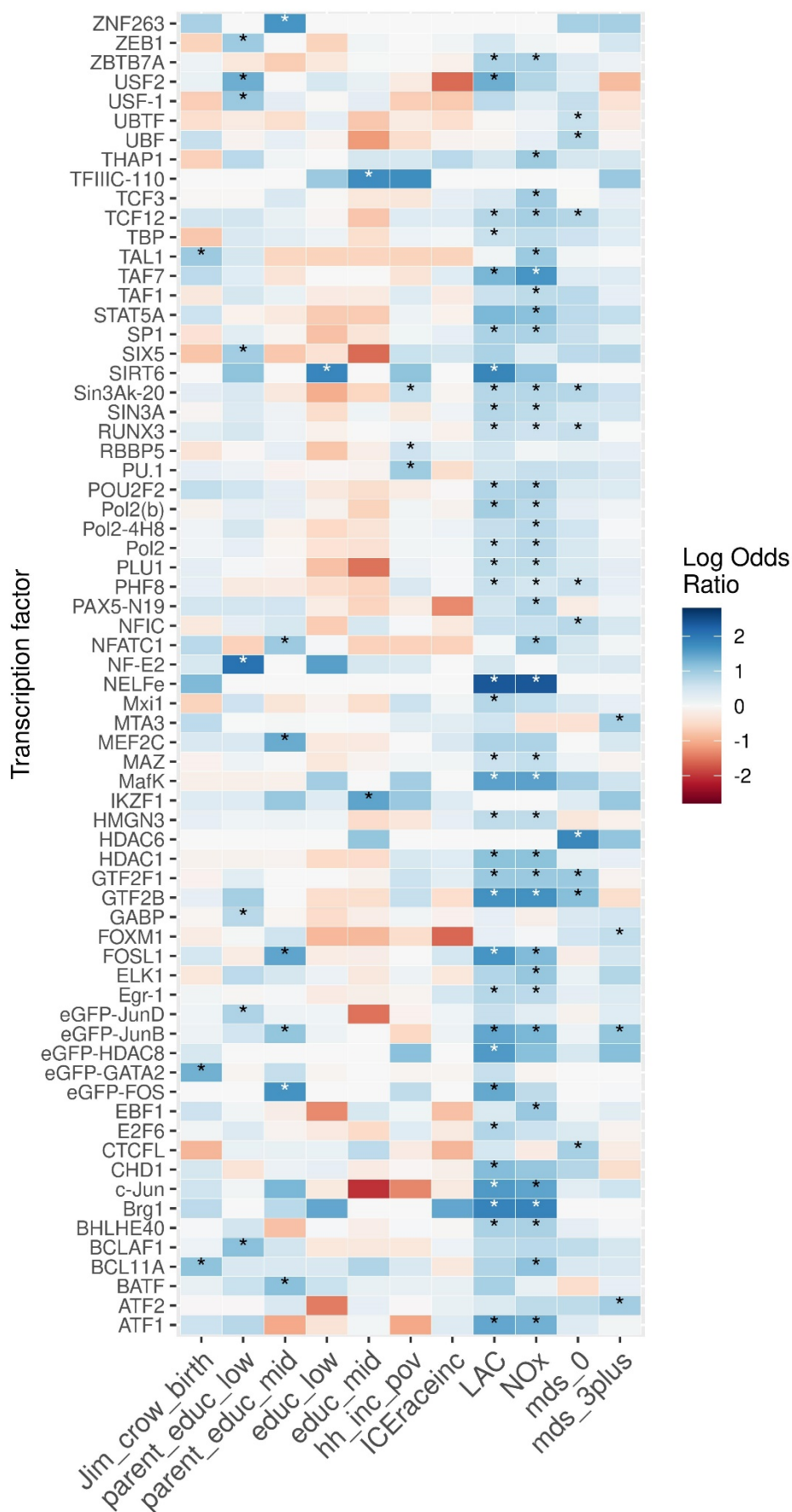
# Transcription factor enrichment MESA Hispanic



MESA Black NH participants (JHU + COL subgroup)



# Transcription factor enrichment MESA Black NH JHU + COL



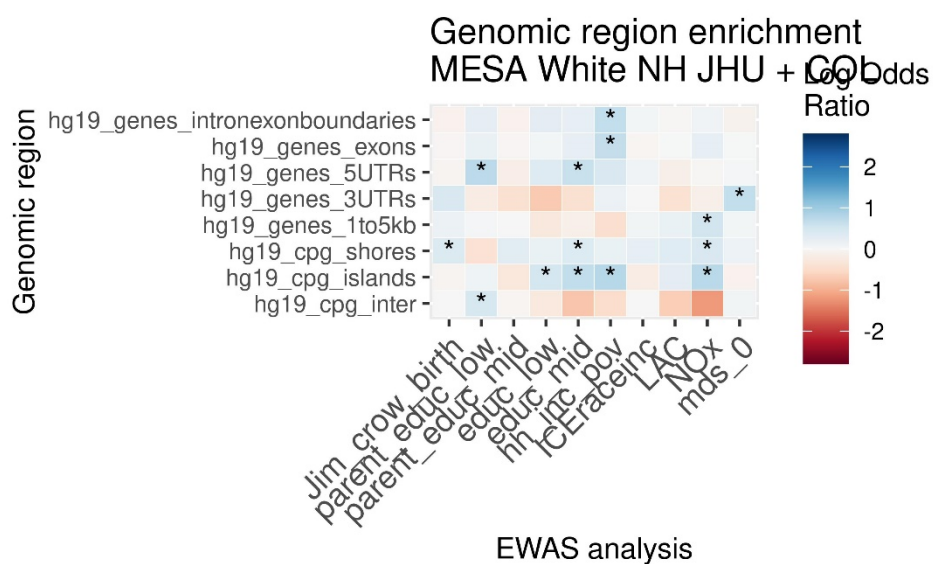
Chromatin state enrichment  
MESA white NH JHU + COL

Chromatin state

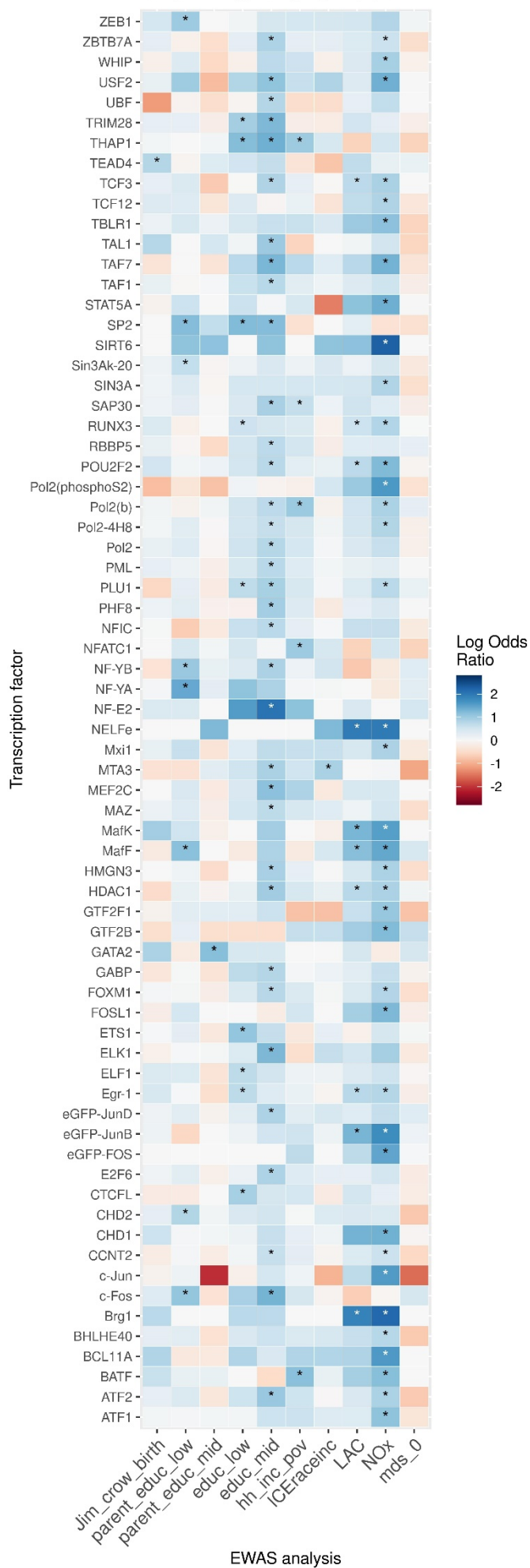
EWAS analysis

Log Odds Ratio

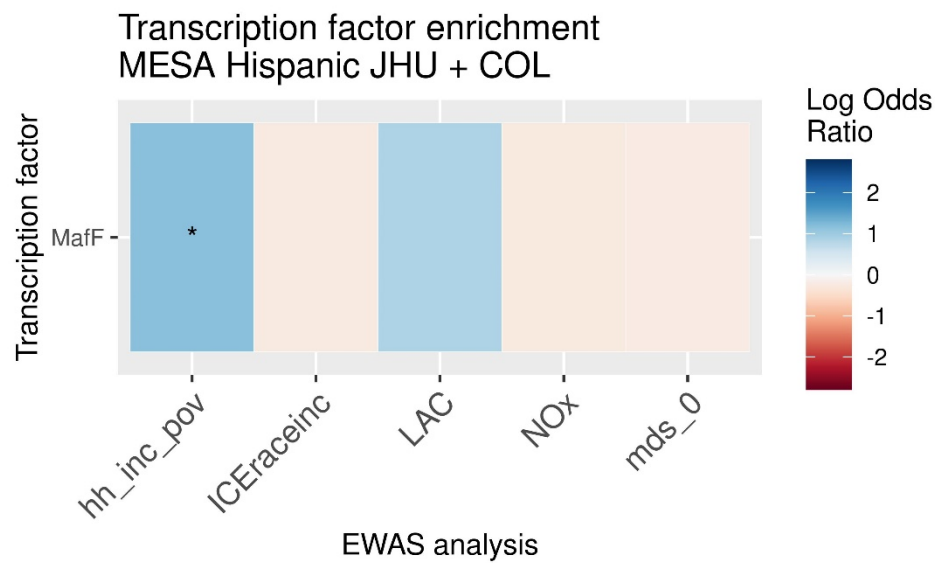
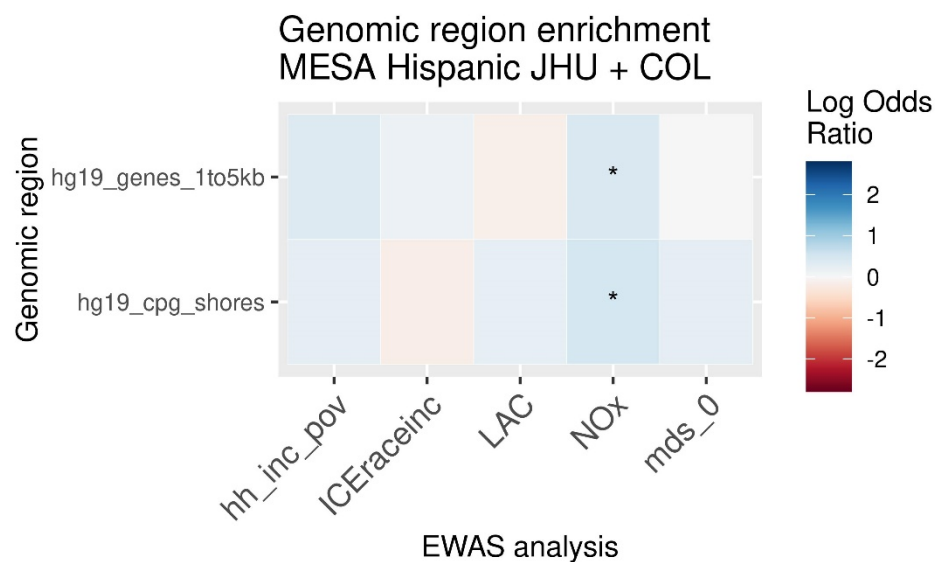
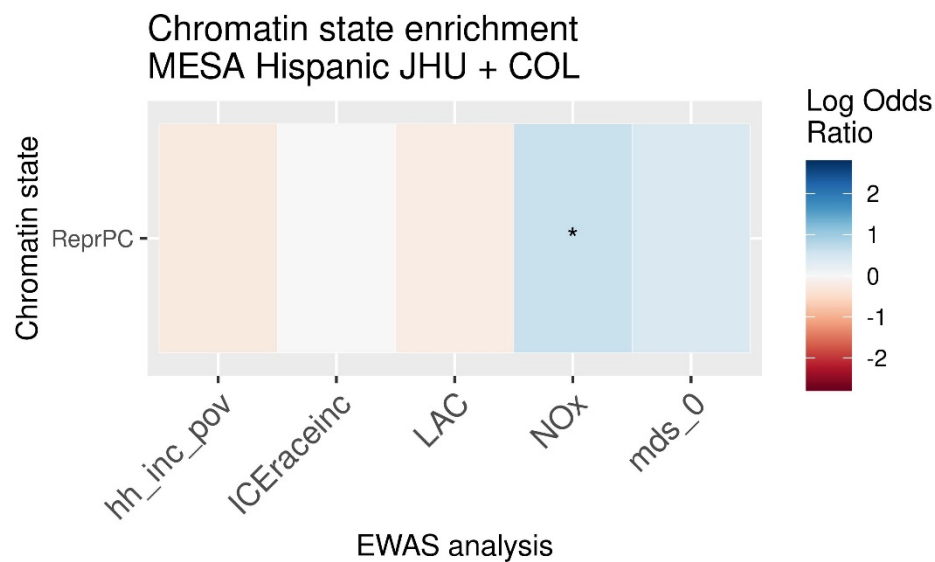
| Chromatin state | Jim_crow_birth | parent_educ_low | parent_educ_mid | educ_low | educ_mid | hh_inc_pov | ICEraceinc | LAC  | NOx   | mds_0 |
|-----------------|----------------|-----------------|-----------------|----------|----------|------------|------------|------|-------|-------|
| TxReg           | 0.5            | -1.0            | -1.0            | -1.5     | 0.5      | -0.5       | 0.0        | 1.5* | 2.0** | 0.0   |
| TssA            | 0.0            | 0.0             | 0.5             | -0.5     | 1.0*     | 1.0*       | -0.5       | 0.5  | 0.0   | 0.0   |
| ReprPC          | 0.0            | 0.5             | 0.0             | 0.0      | 0.0      | 0.0        | -0.5       | -1.0 | -1.5  | 0.5*  |
| PromU           | 0.0            | -0.5            | 0.0             | -0.5     | 1.0*     | -0.5       | 0.0        | -0.5 | -0.5  | -0.5  |



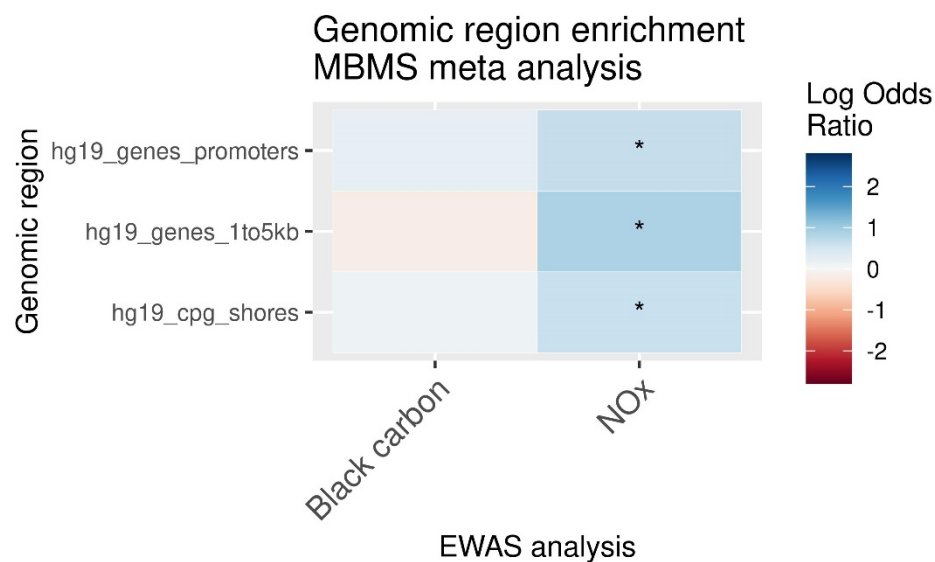
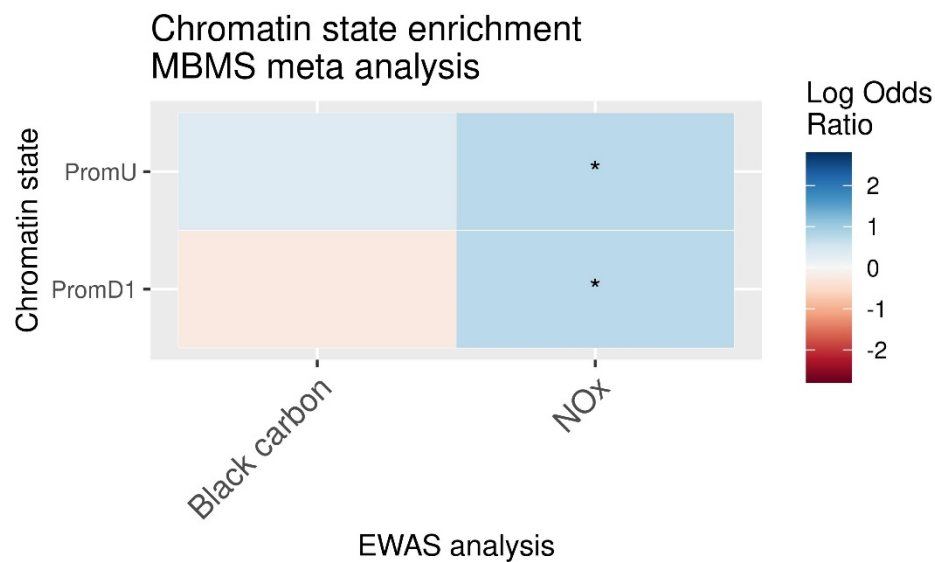
# Transcription factor enrichment MESA White NH JHU + COL



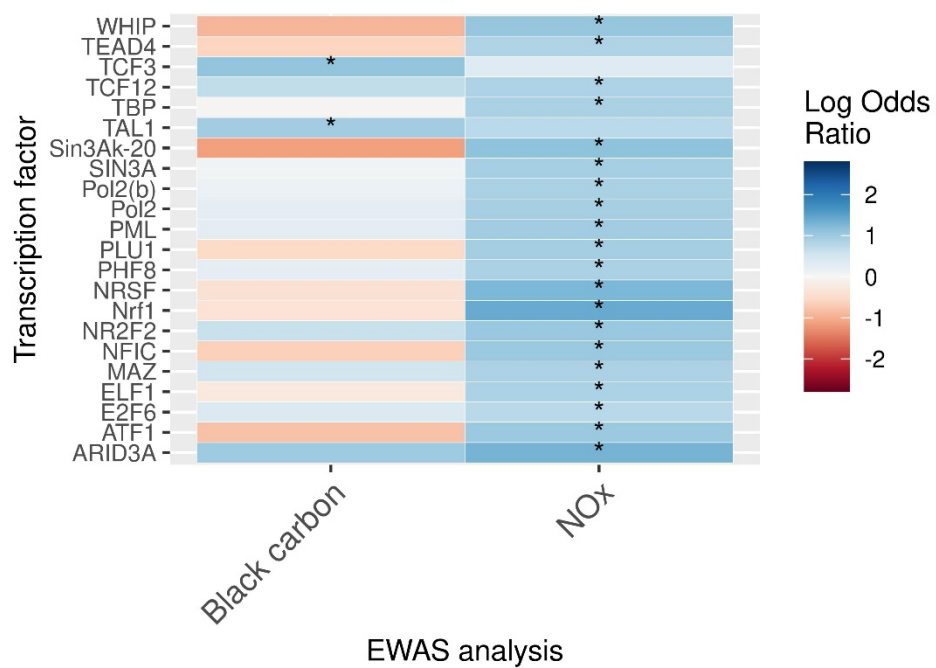
MESA Hispanic participants (JHU + COL subgroup)



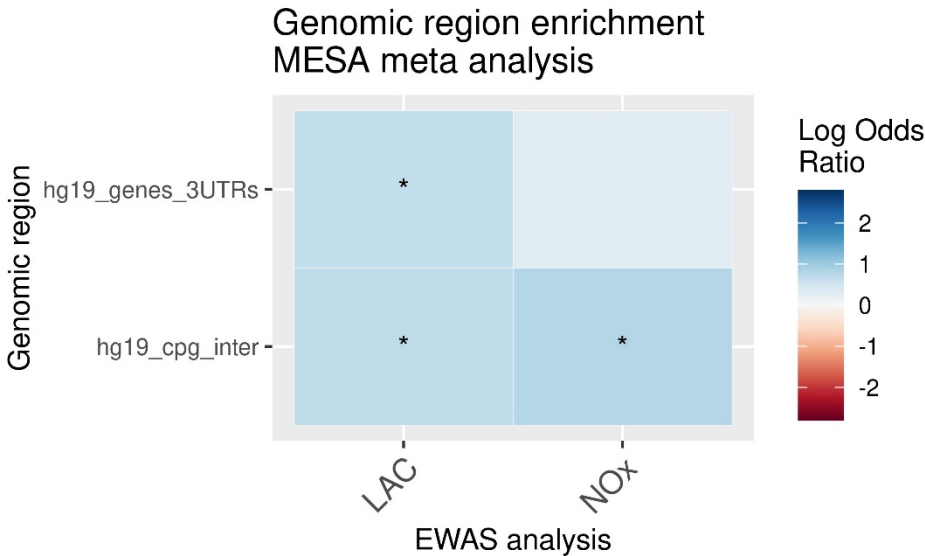
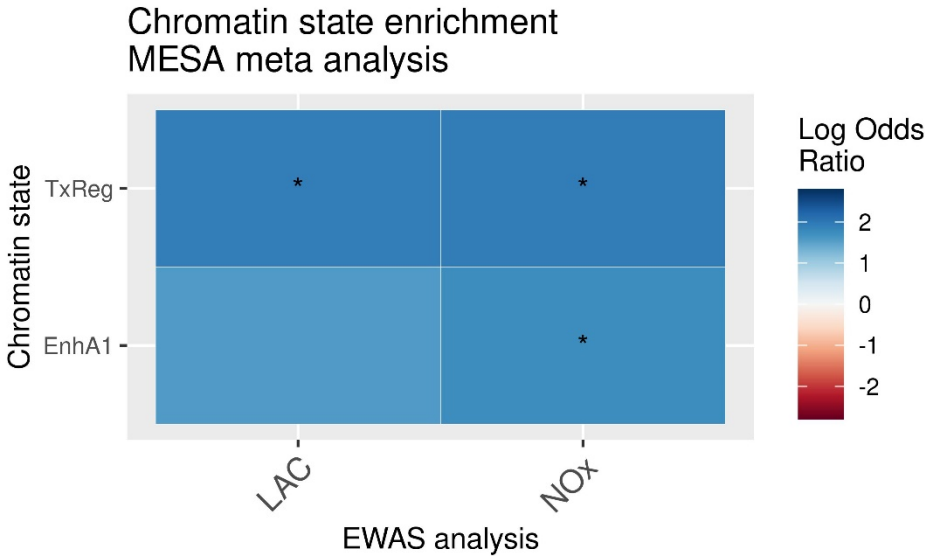
MBMS meta-analysis



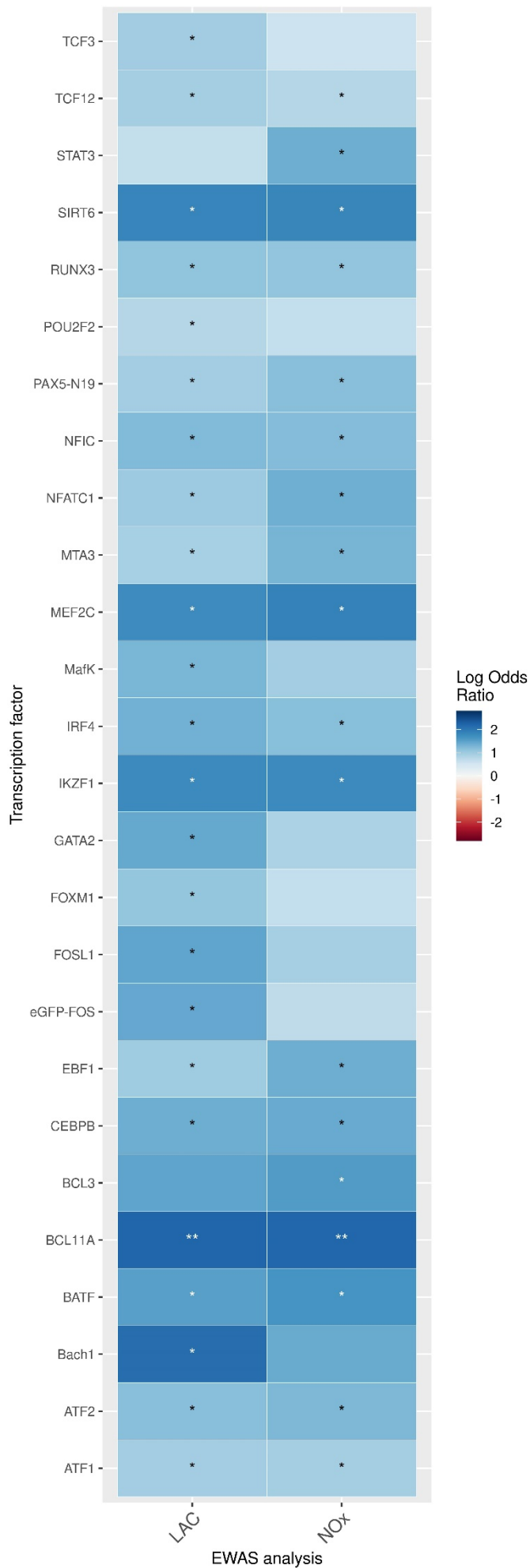
# Transcription factor enrichment MBMS meta analysis



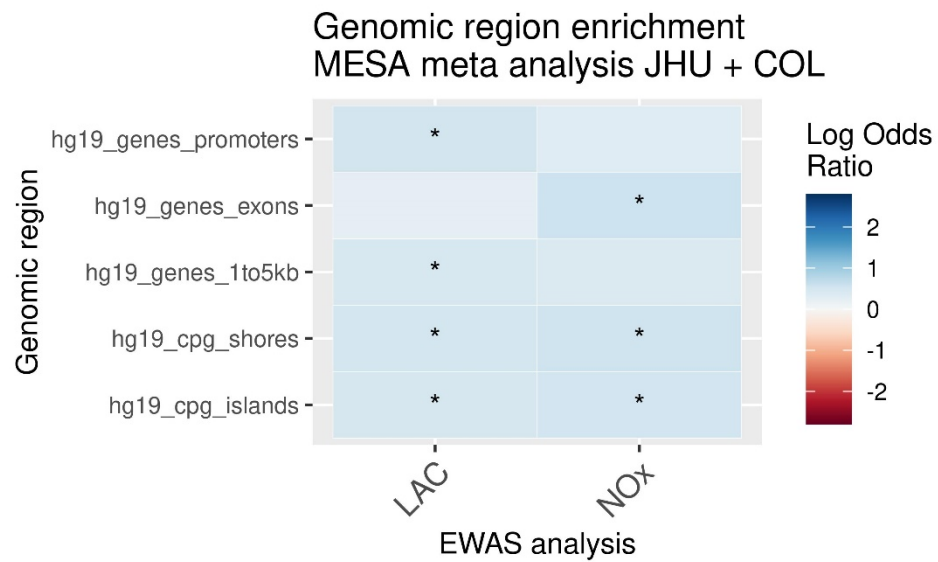
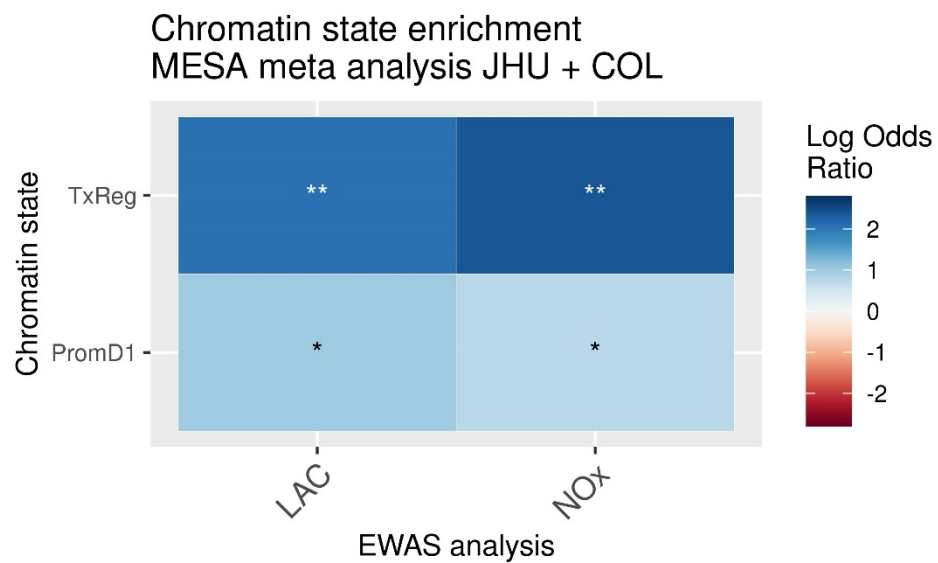
Mesa meta-analysis (full cohort)



Transcription factor enrichment  
MESA meta analysis



MESA meta-analysis (JHU + COL subgroup)



Transcription factor enrichment  
MESA meta analysis JHU + COL

