

**Table W1.** Results of effect size analysis.

| CpGs with Abs(Delta(B-values)) > 5%             | Joined cohort | Female cohort | Male cohort |
|-------------------------------------------------|---------------|---------------|-------------|
| Total number                                    | 7150          | 34162         | 48094       |
| with Cohen's D $\geq 0.3 < 0.5$ (small effect)  | 2532 (35%)    | 413 (1%)      | 2791 (6%)   |
| with Cohen's D $\geq 0.5 < 0.8$ (medium effect) | 4069 (57%)    | 2907 (9%)     | 9162 (19%)  |
| with Cohen's D $\geq 0.8$ (large effect)        | 422 (6%)      | 30563 (89%)   | 32809 (68%) |

Joined cohort

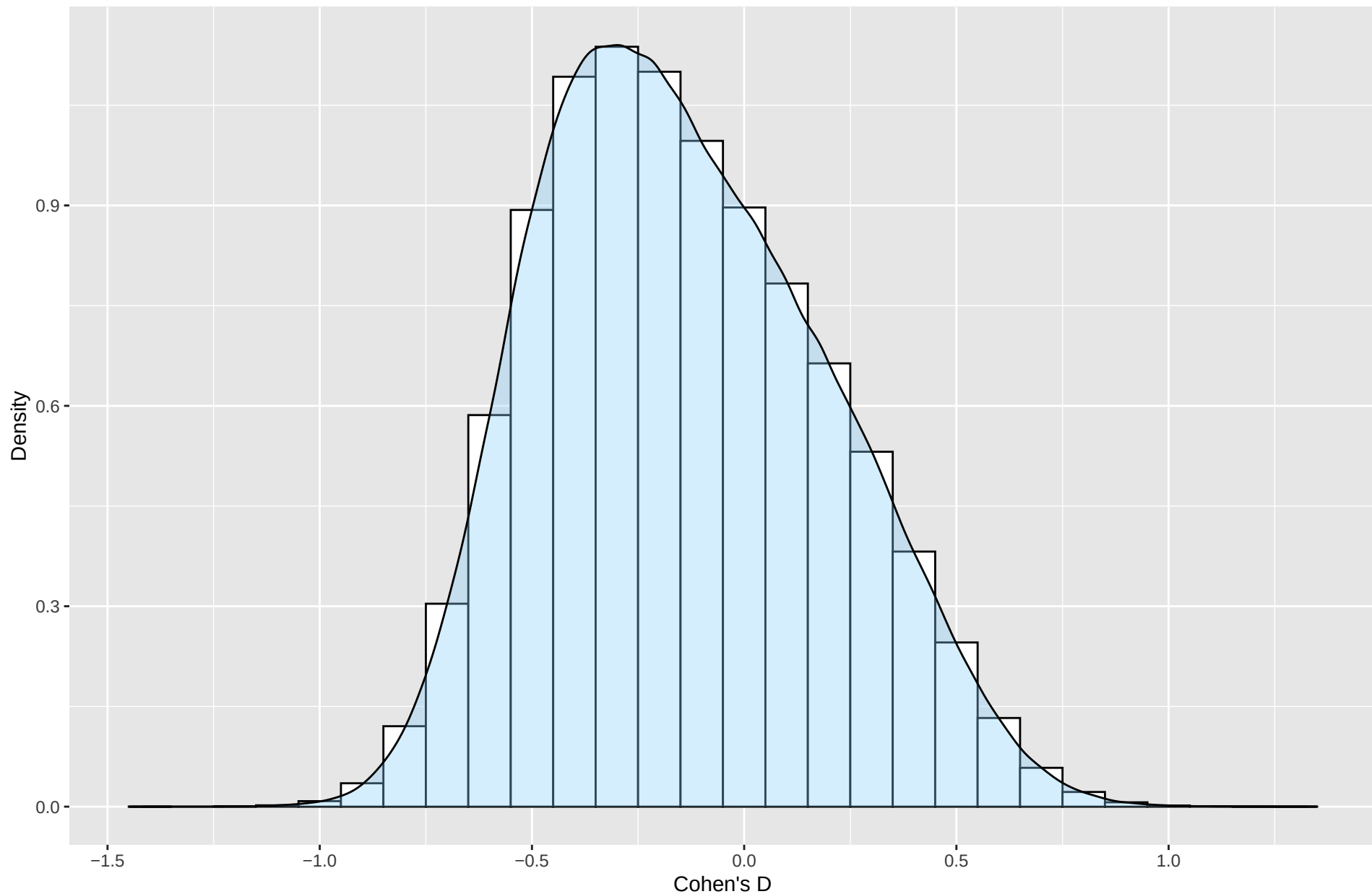


Figure W1. Distribution of Cohen's D coefficient calculated between R and NR groups.

## Sex cohorts

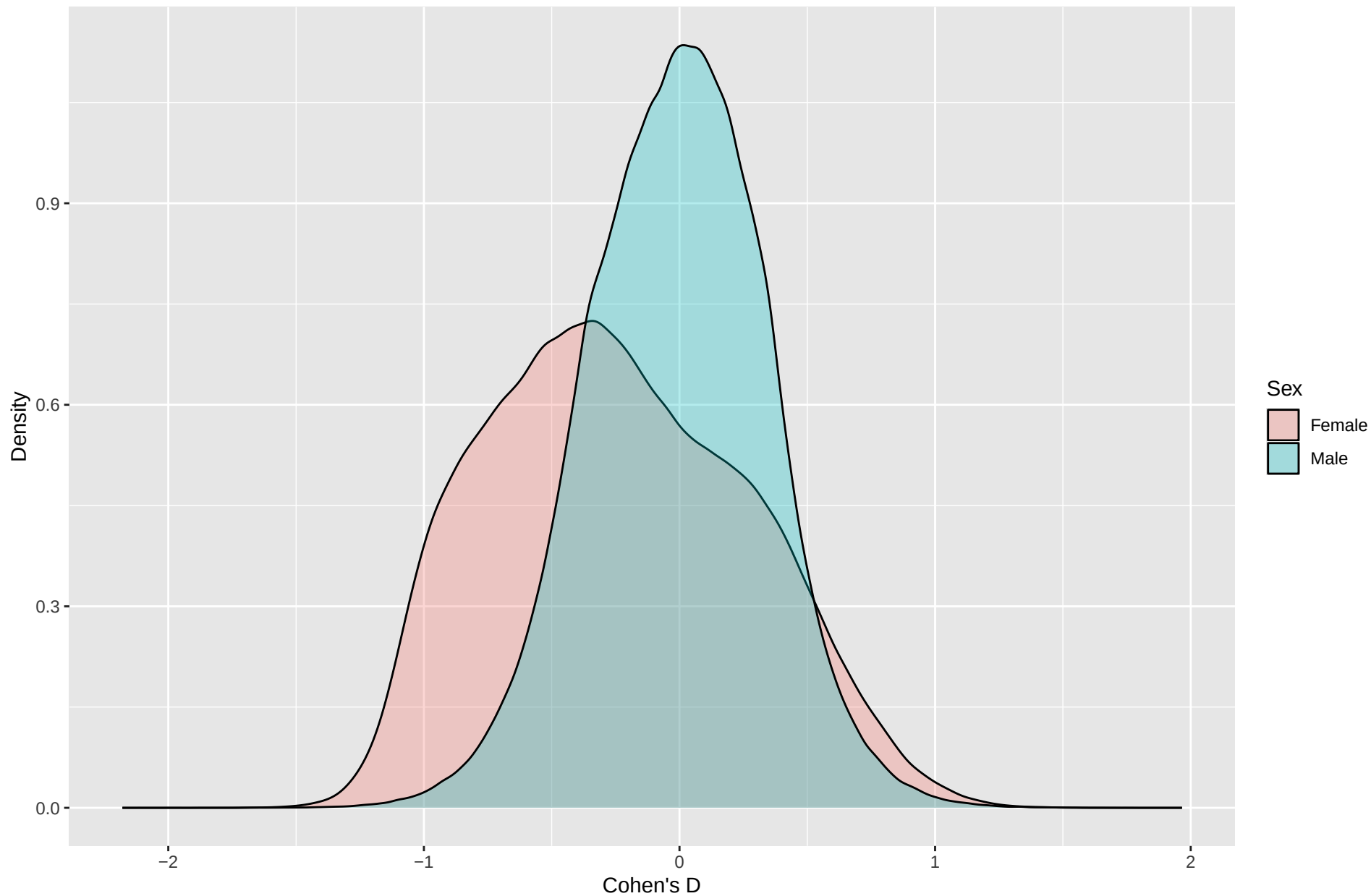


Figure W2. Distribution of Cohen's D coefficient calculated between R and NR groups.

Joined cohort

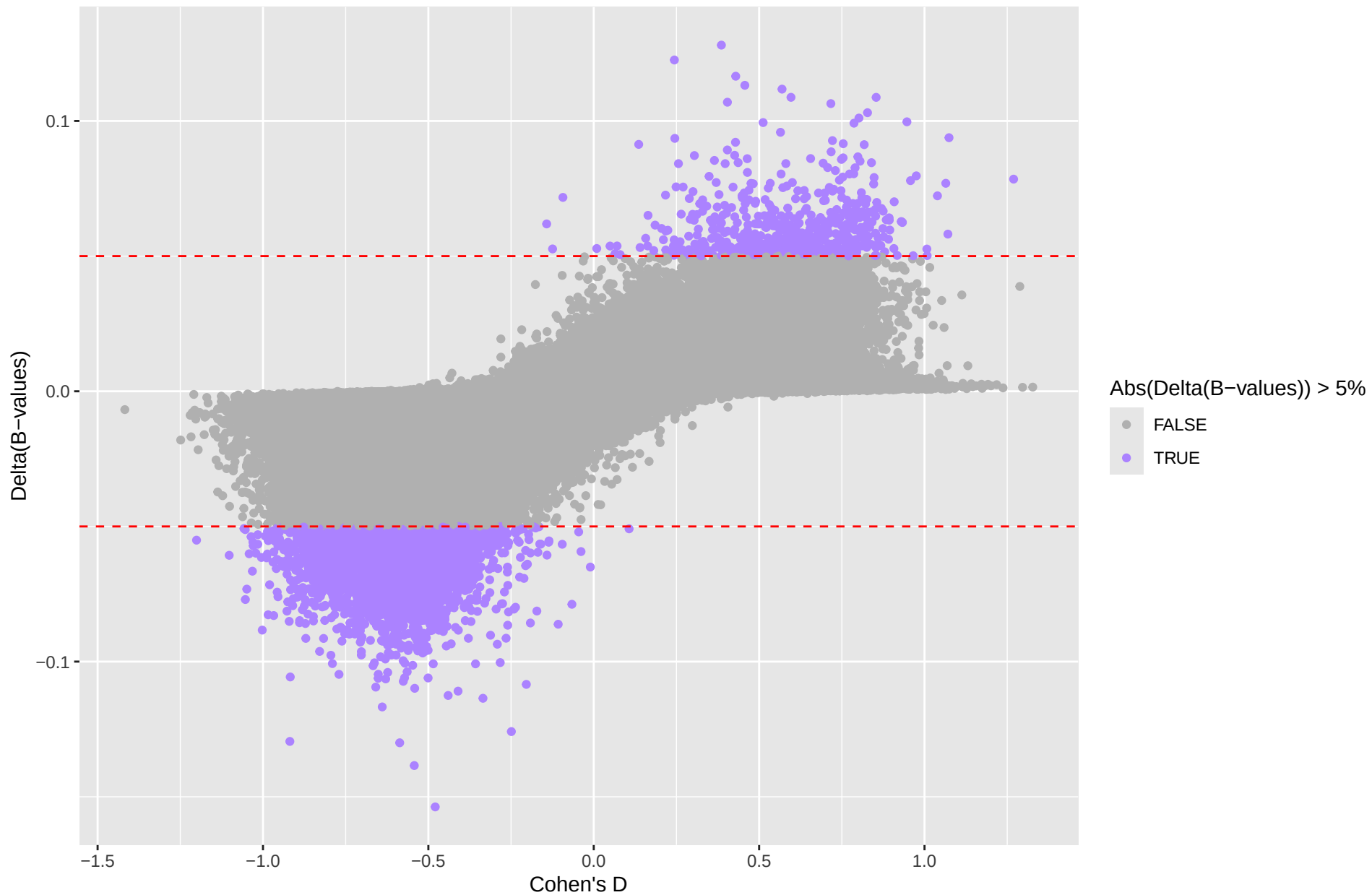


Figure W3. Difference in methylation levels versus Cohen's D coefficient calculated between R and NR groups.



# Female cohort

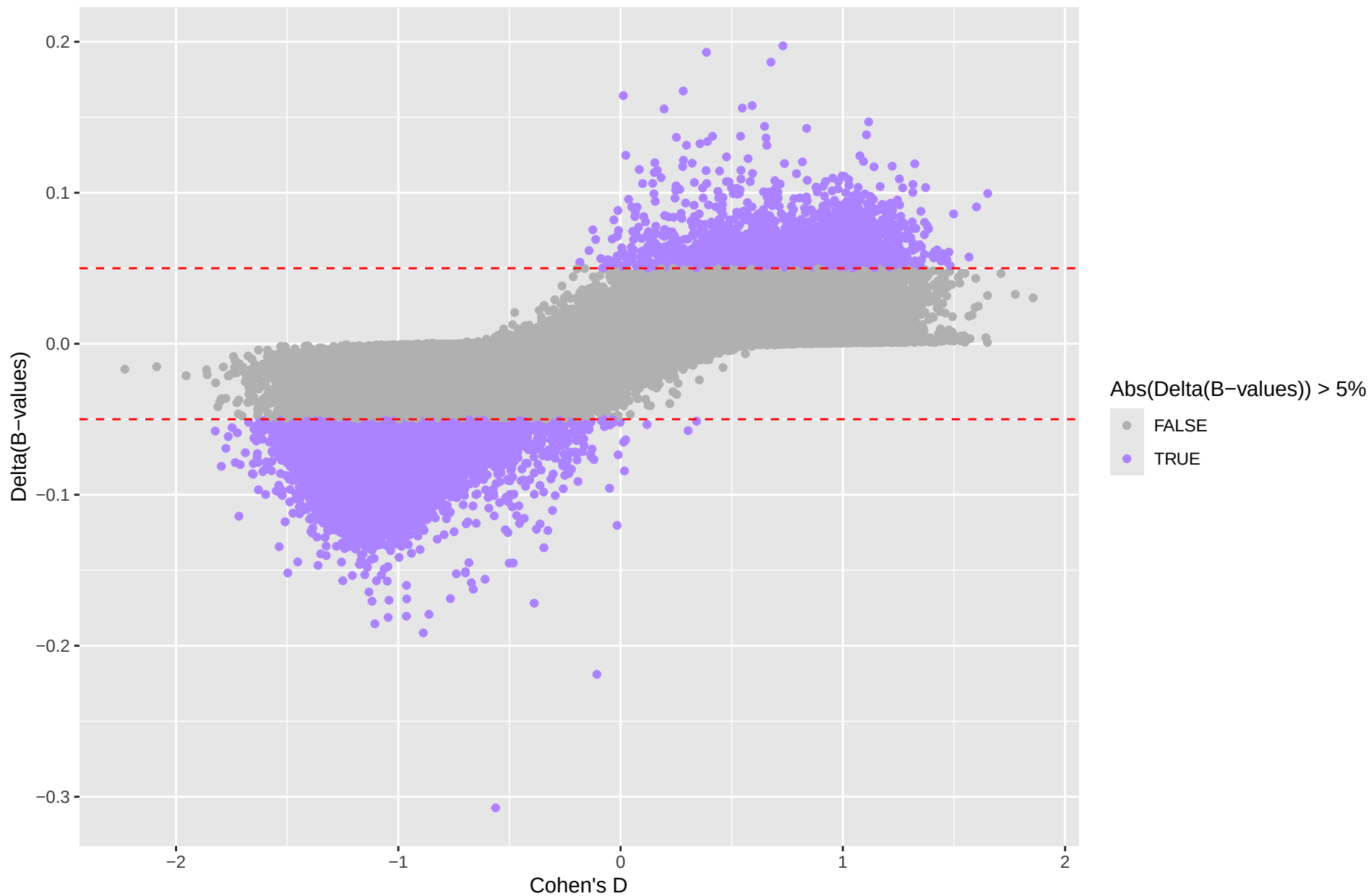


Figure W4. Difference in methylation levels versus Cohen's D coefficient calculated between R and NR groups.

# Male cohort

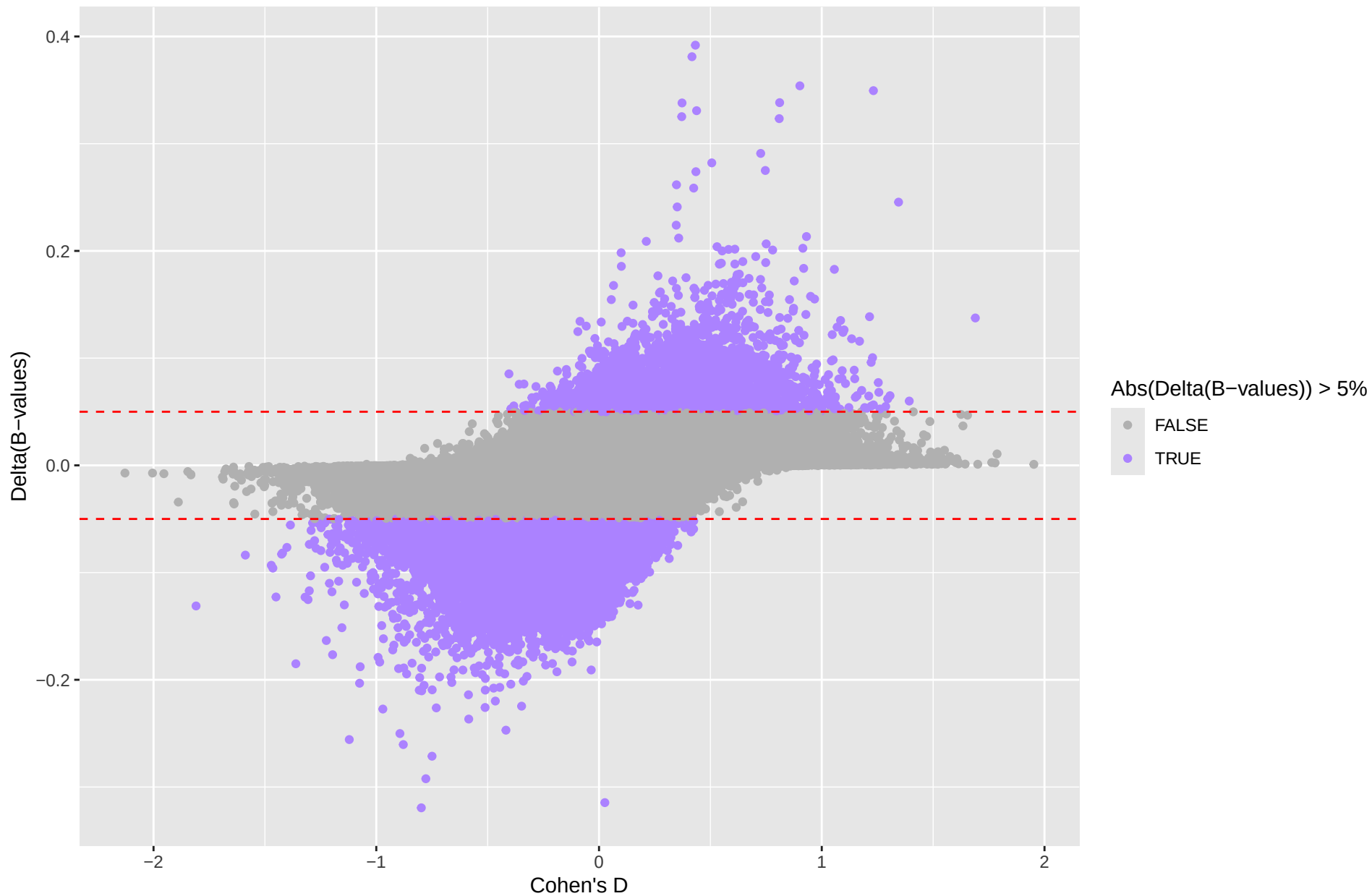


Figure W5. Difference in methylation levels versus Cohen's D coefficient calculated between R and NR groups.