

**S9 Table.** Parameters in Polygenic Risk Score analysis power calculations

| <b>Parameter</b>   | <b>Value</b> | <b>Source</b>  |
|--|--------------|--|
| Sample size of training sample                                   | 3987         | determined from data   |
| Prevalence of nsCL/P in training sample                          | 0.305        | determined from data   |
| Population prevalence of nsCL/P                                  | 0.001        | IPDTC Working Group. "Prevalence at birth of cleft lip with or without cleft palate: data from the International Perinatal Database of Typical Oral Clefts (IPDTC)." (2011). |
| Number of independent SNPs common to both arrays ( $r^2 < 0.1$ ) | 75,737       | determined from data   |
| $h^2$ of nsCL/P  | 0.2          | AVENGEME estimate  |
| Proportion of null markers                                       | 0.992        | AVENGEME estimate  |