



Suspicious loci analysis of meta-analysis summary statistics

Input: summary statistics and LD reference

1. Define loci based on 1 Mb window around lead variants.

2. For each locus, detect **outlier variants** based on LD using the DENTIST-S statistics:

$$T_i = \frac{(z_i - r_{i,c} \cdot z_c)^2}{1 - r_{i,c}^2}$$

3. Identify suspicious loci for fine-mapping that have outlier variants in LD with a lead variant ($P_{\text{DENTIST-S}} < 10^{-4}$ and $r^2 > 0.6$).

Output: list of predicted suspicious loci for fine-mapping

