

Genome-wide association study of copy number variation in 16,000 cases of eight common diseases and 3,000 shared controls

Supplementary File 2

Version 2.0.0

The Wellcome Trust Case Control Consortium

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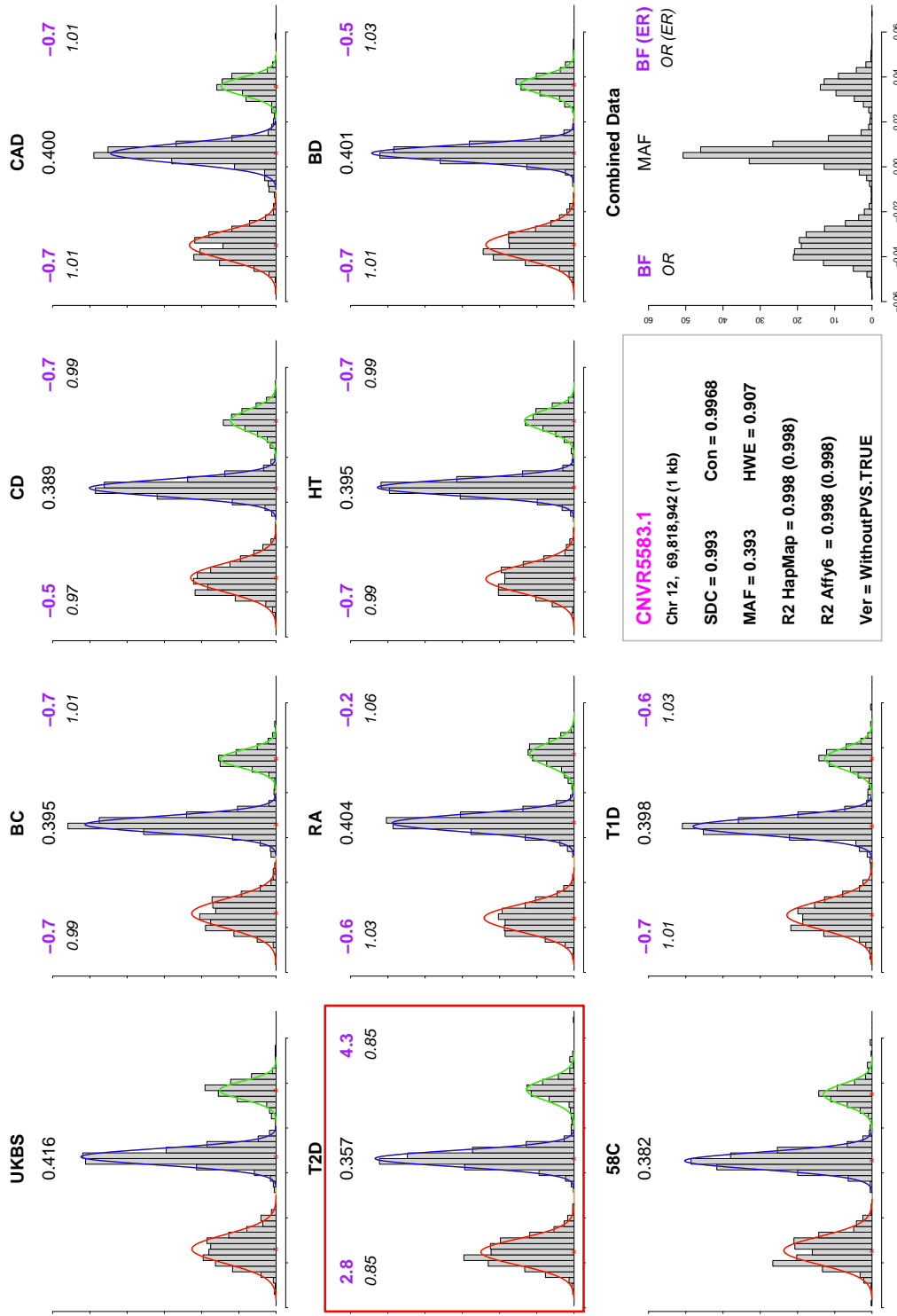
Plots of CNV calls and association testing results produced by the CNVCALL/CNVTEST approach

The following plots show the CNV intensity distributions for each cohort at all of the CNVs in Table 3 and Supplementary Table 13. For each CNV the CNV intensity distributions for each cohort are given in a separate sub-plot. The model fit (continuous coloured line) for each cohort is overlaid onto the intensity distributions. The means and variances of the CNV classes differ between cohorts but class proportions are set to the estimate of the overall class proportions. This aids visualization of effects since signals of association will show up as a difference between the model fit and the intensity histogram. The numbers at the top of each plot are as follows. Top left : \log_{10} Bayes Factor (BF) for cohort versus the two control cohorts with associated estimate of the additive odds ratio for increasing copy number given below. Top right : \log_{10} Bayes Factor for cohort versus the set of expanded reference panels (BF(ER)) (see Supplementary Table 9) with the associated estimate of the additive odds ratio for increasing copy number given below. Top middle : minor allele frequency estimate for that cohort. Case cohorts with either a BF or BF(ER) greater than 2.1 are highlighted by a red box around the subplot for that cohort. The CNV intensity distribution across all cohorts is given in the bottom right plot together with a legend for the 5 numbers included in each of the per-cohort subplots. The third subplot from the right on the bottom row gives information about the CNV shown in the rest of the subplots. The CNV names, chromosome, position and length of the CNV are given. The Strict Duplicate Concordance (SDC) is reported which is the ratio of all duplicate calls that agree divided by the total number of duplicates. The mean maximum posterior probability (or confidence (Con)) of the CNV genotype calls is given. The minor allele frequency (MAF) across all cohorts and the p-value for the test of Hardy-Weinberg Equilibrium (HWE) in all cohorts are shown. The maximum R^2 of the CNV to a HapMap SNP in a 1Mb region flanking the CNV is reported together with the maximum R^2 of the CNV to any HapMap SNP in brackets. The maximum R^2 of the CNV to a SNP on the Affymetrix 6.0 chip in a 1Mb region flanking the CNV is reported together with the maximum R^2 of the CNV to any Affymetrix 6.0 chip SNP in brackets. The version (Ver) of normalization used for the CNV is shown at the bottom of the subplot (see Supplementary Table 8 for more details).

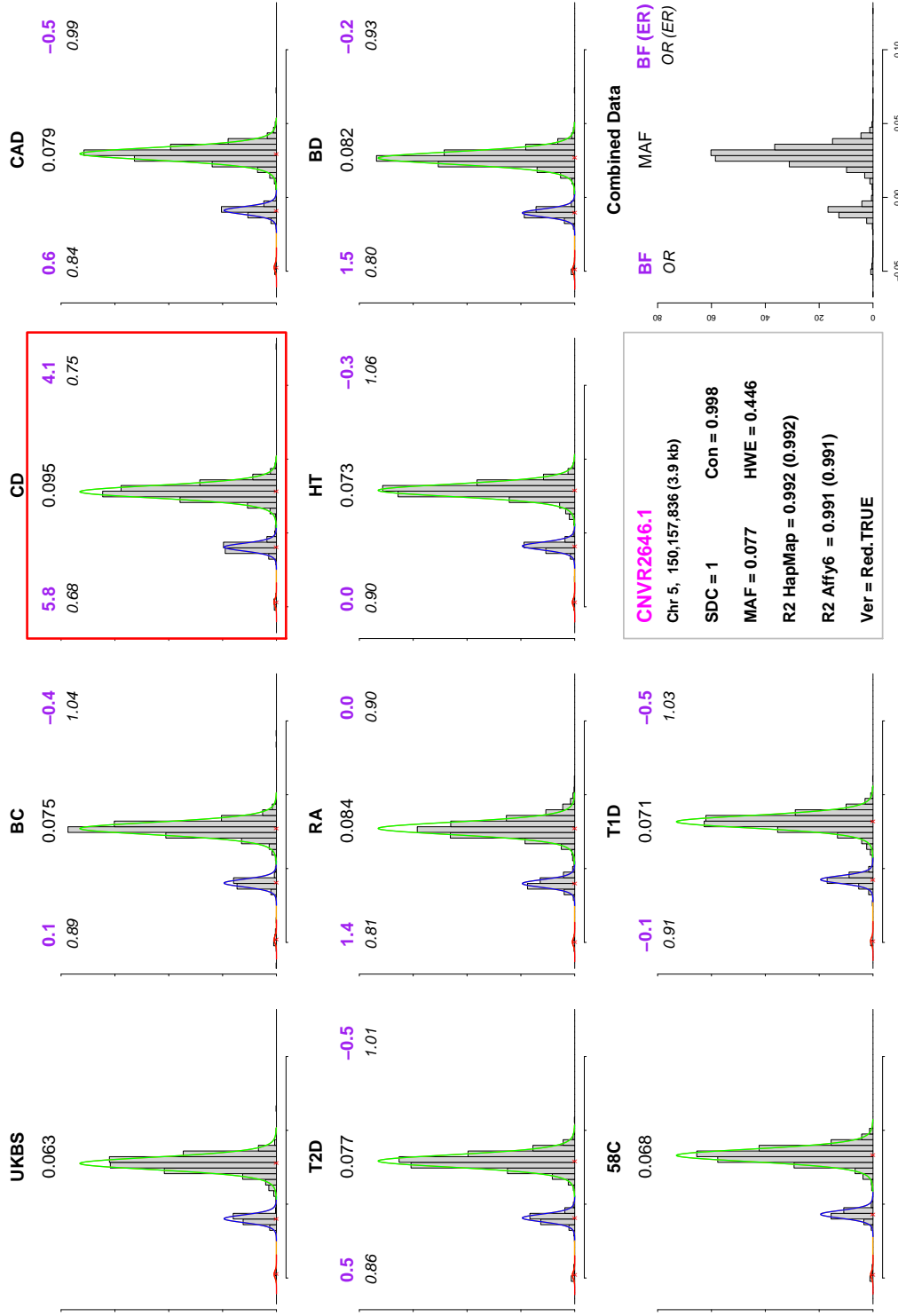
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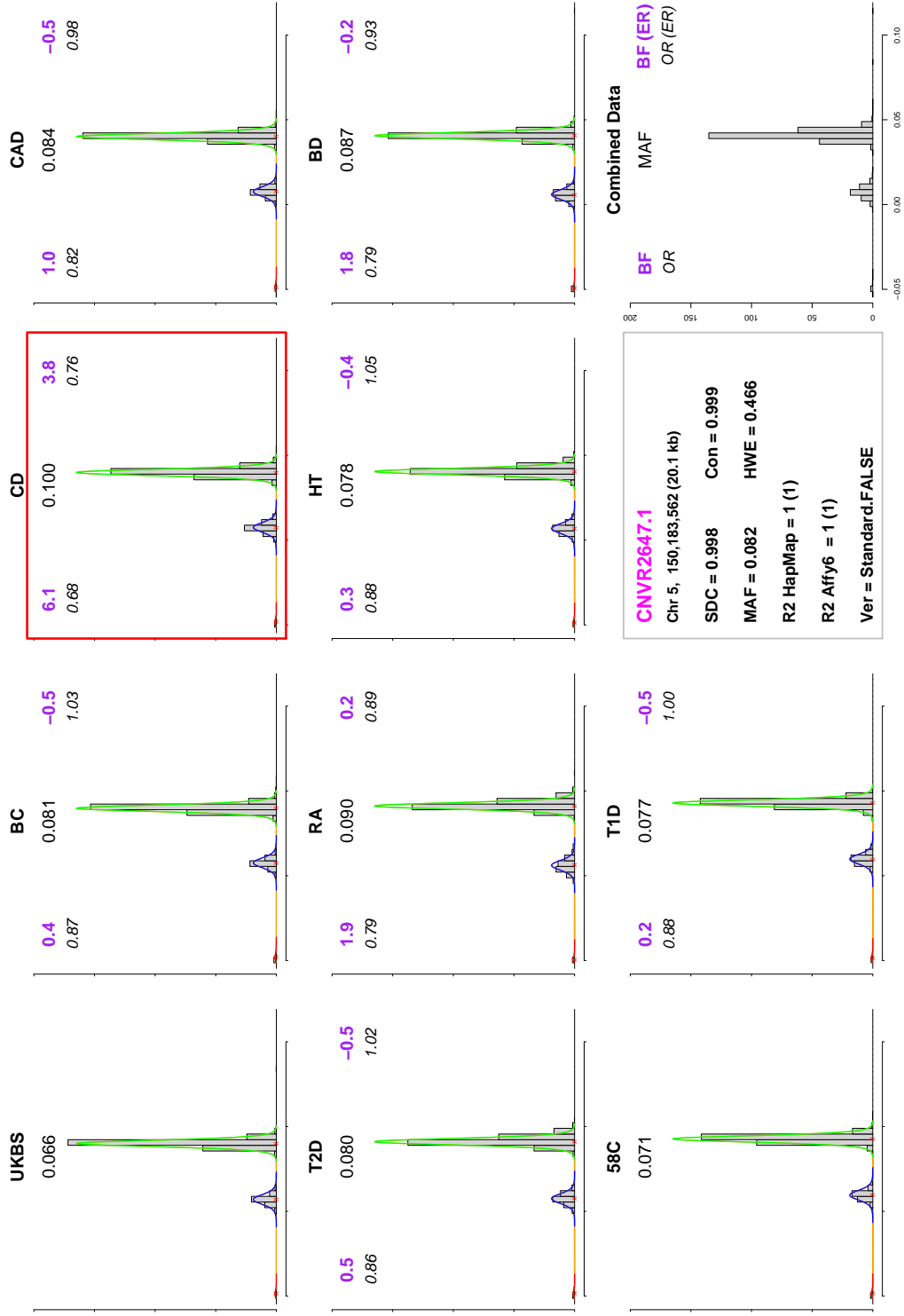
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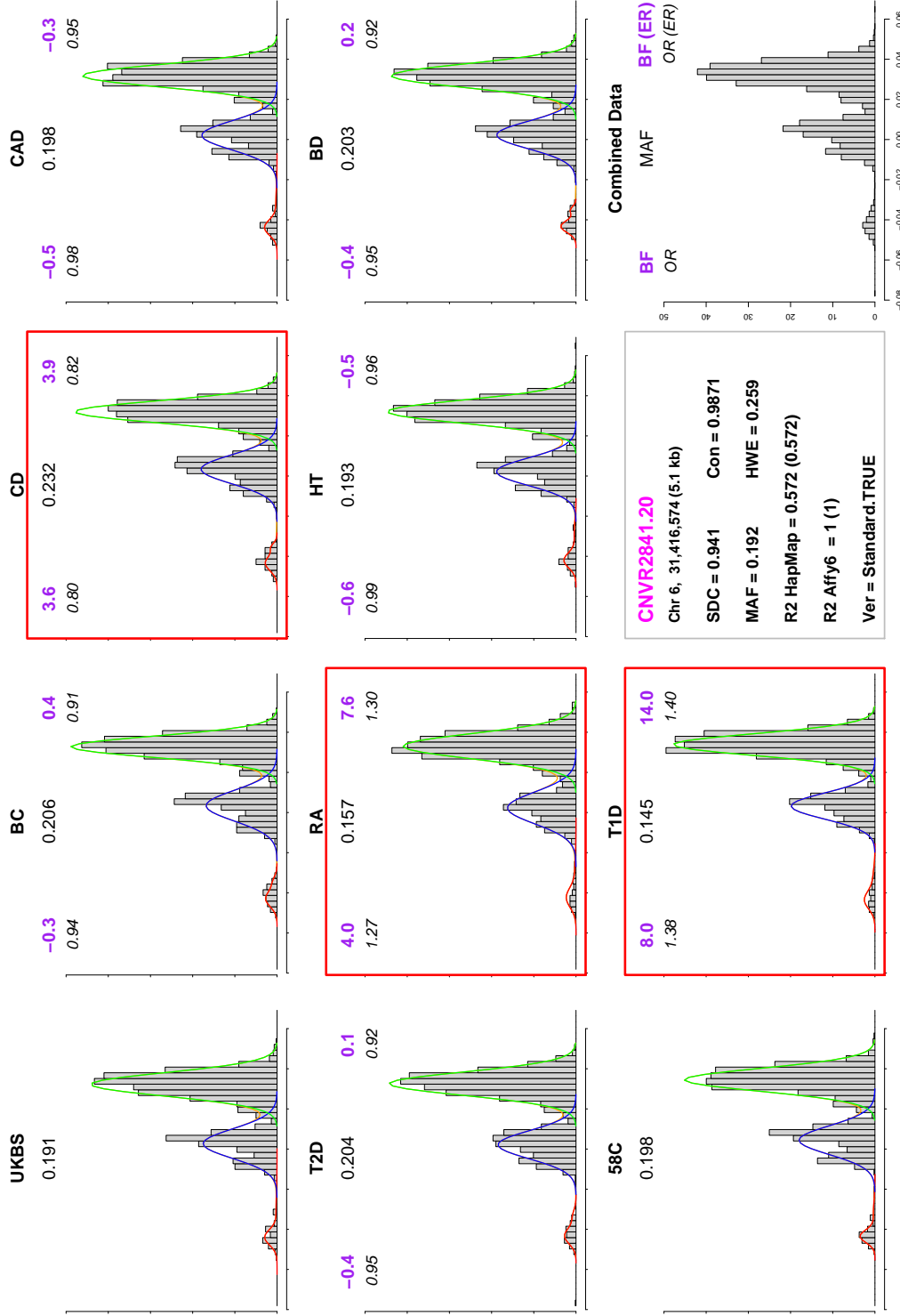
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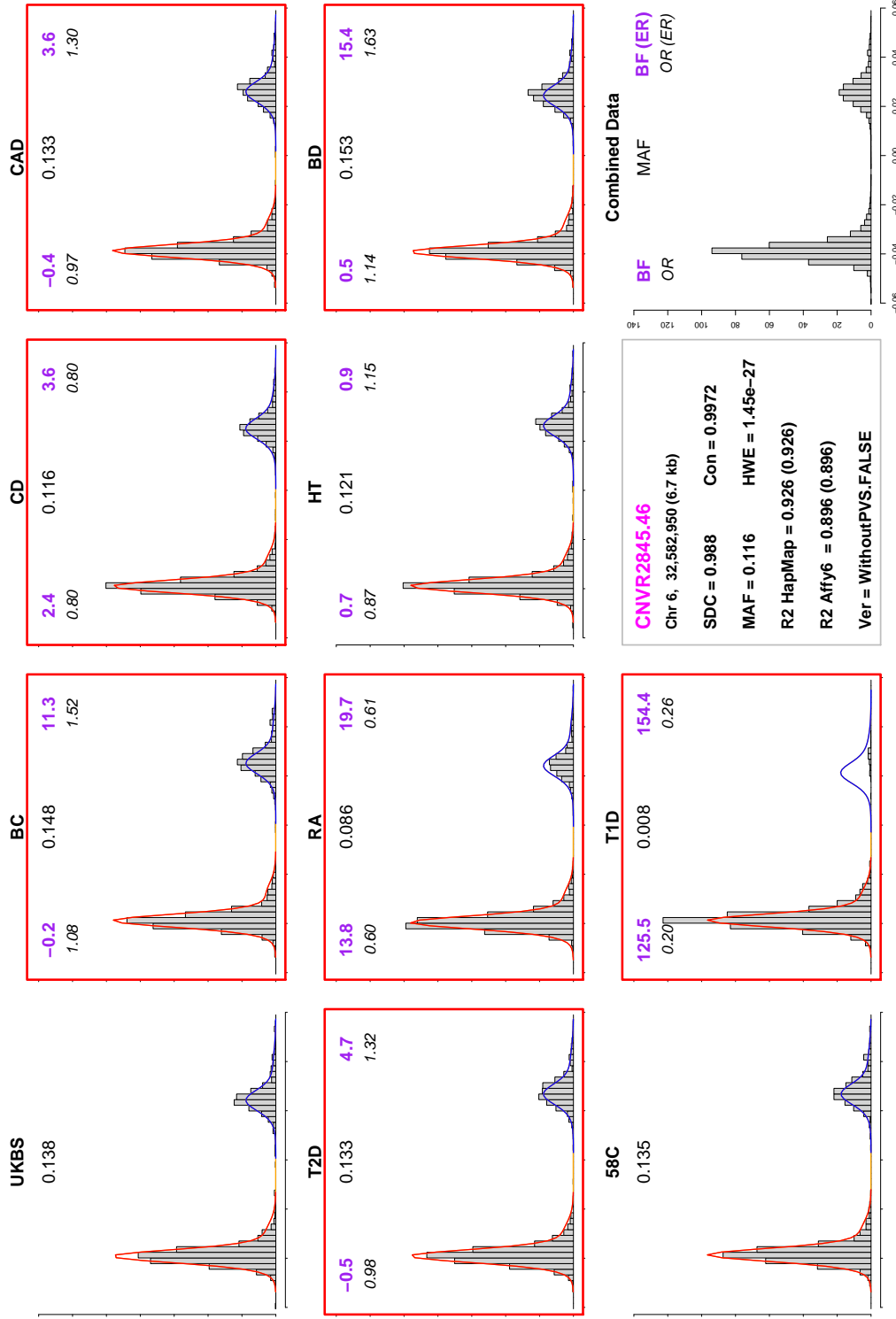
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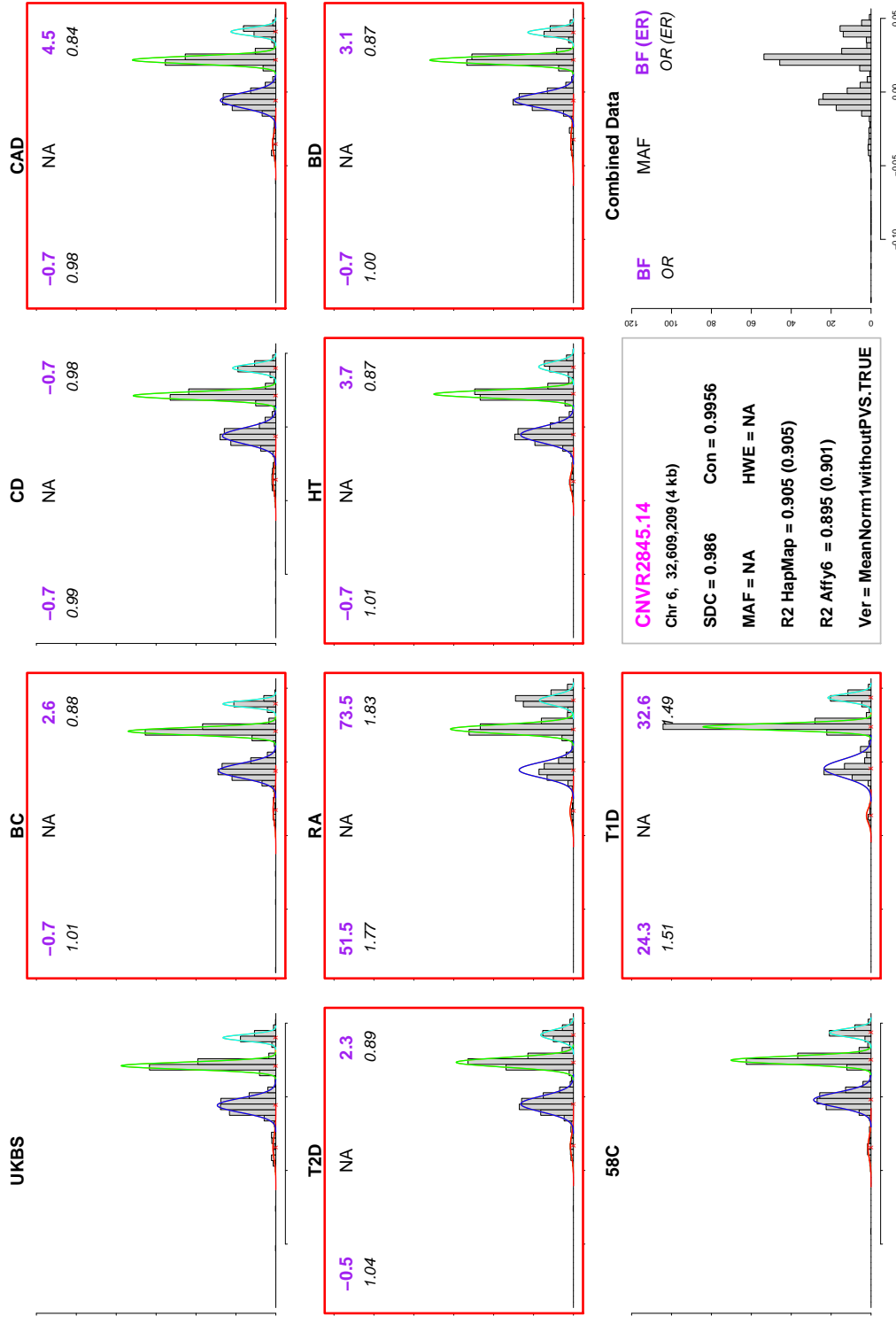
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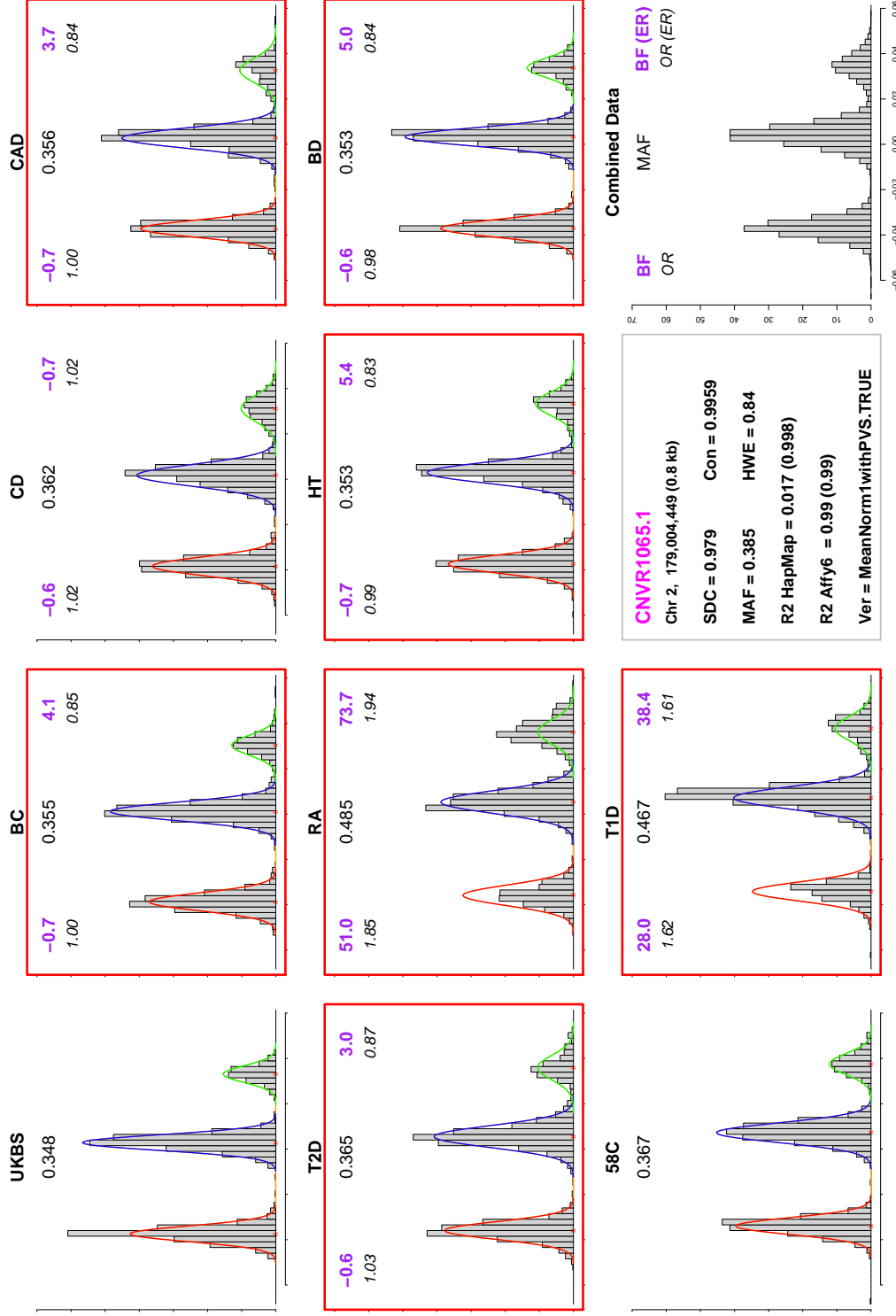
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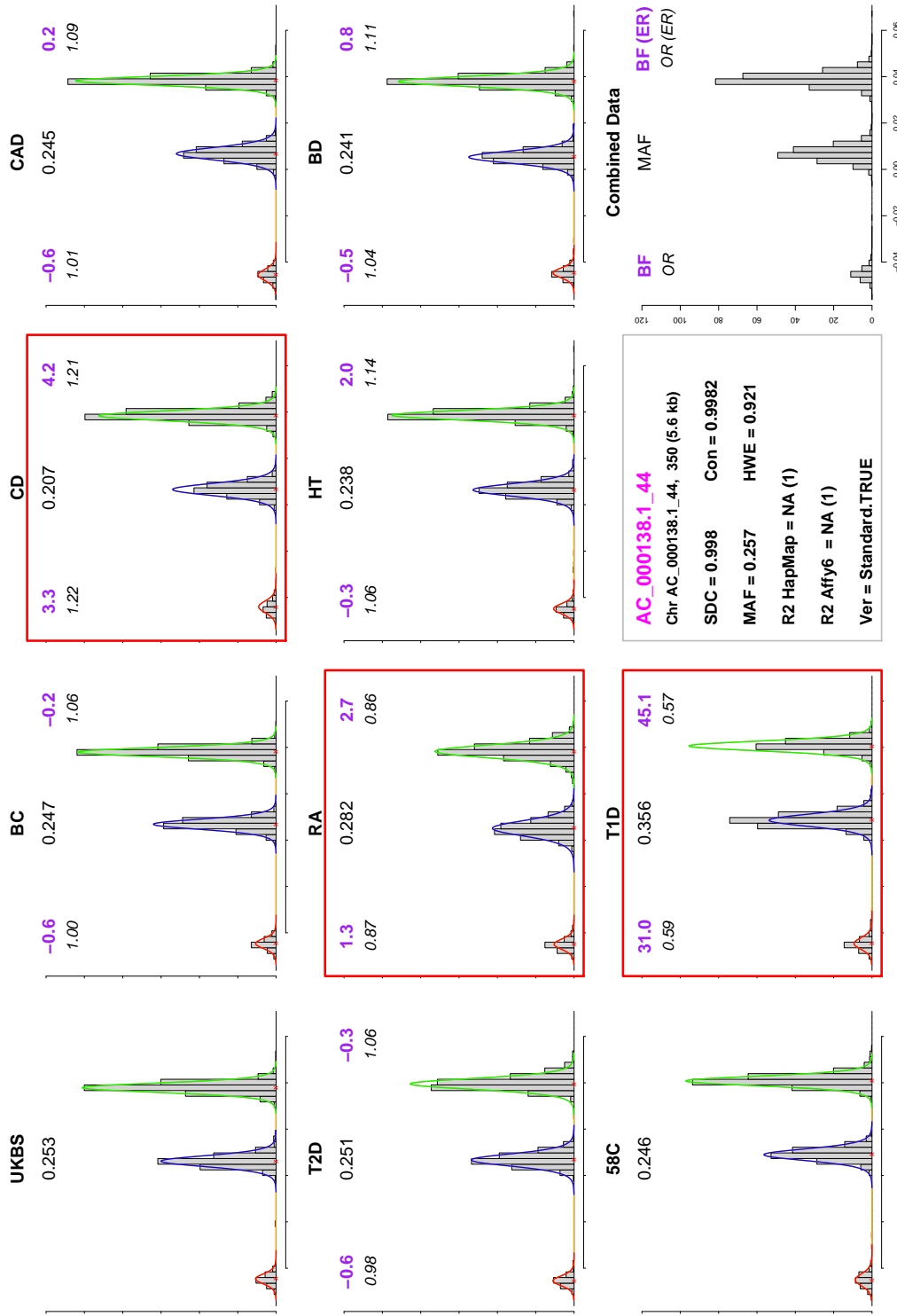
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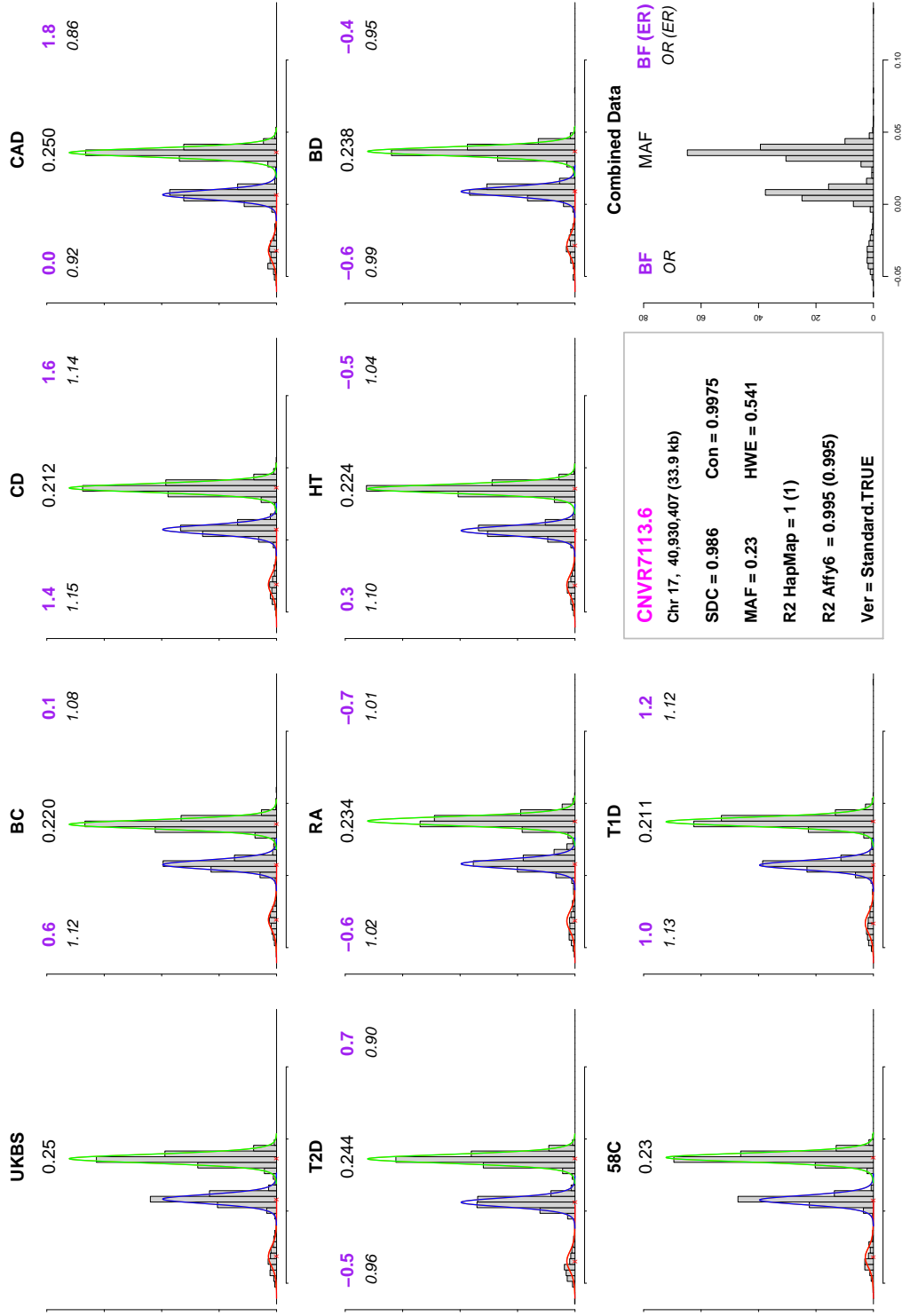
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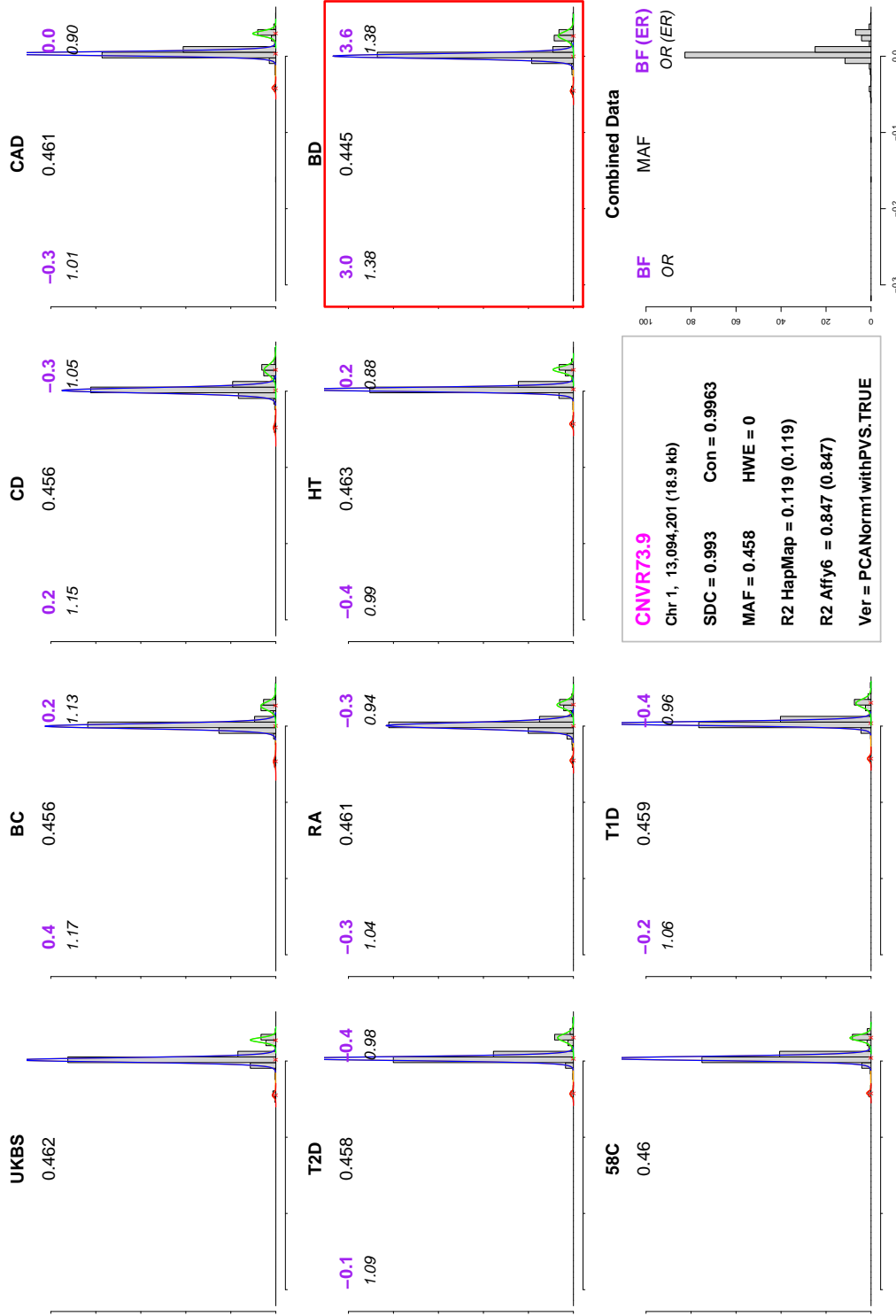
8 AC_000138.1_44



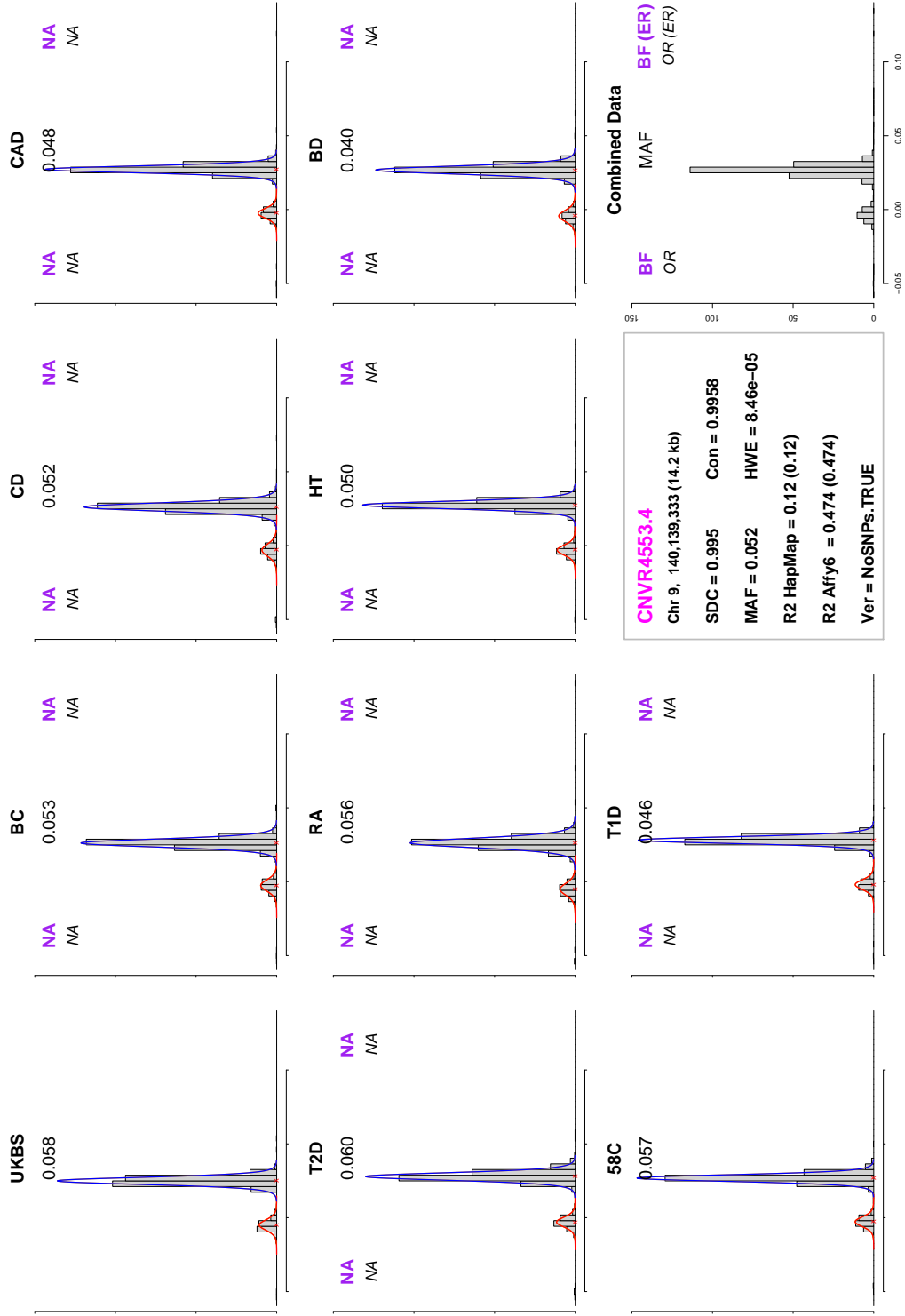
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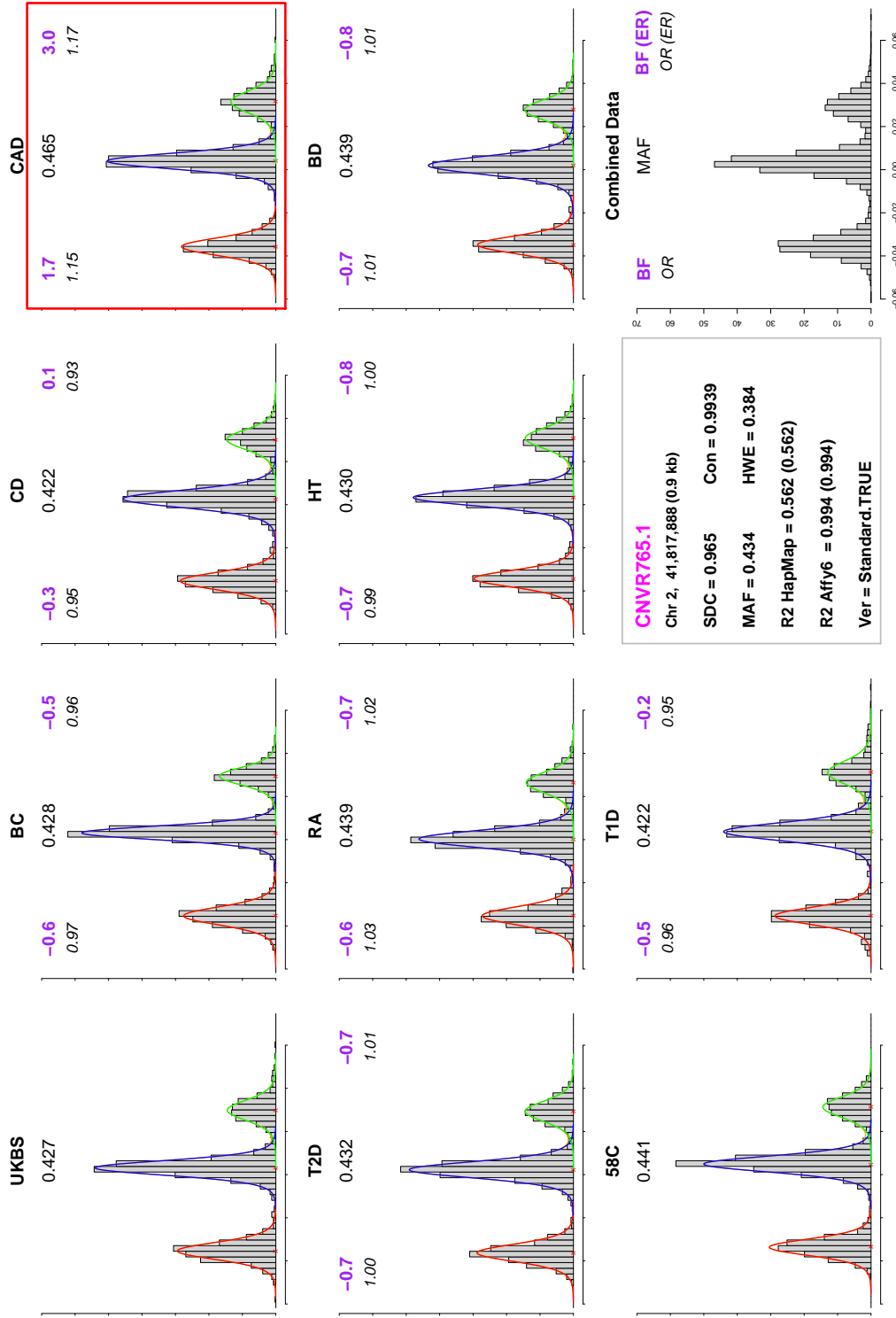
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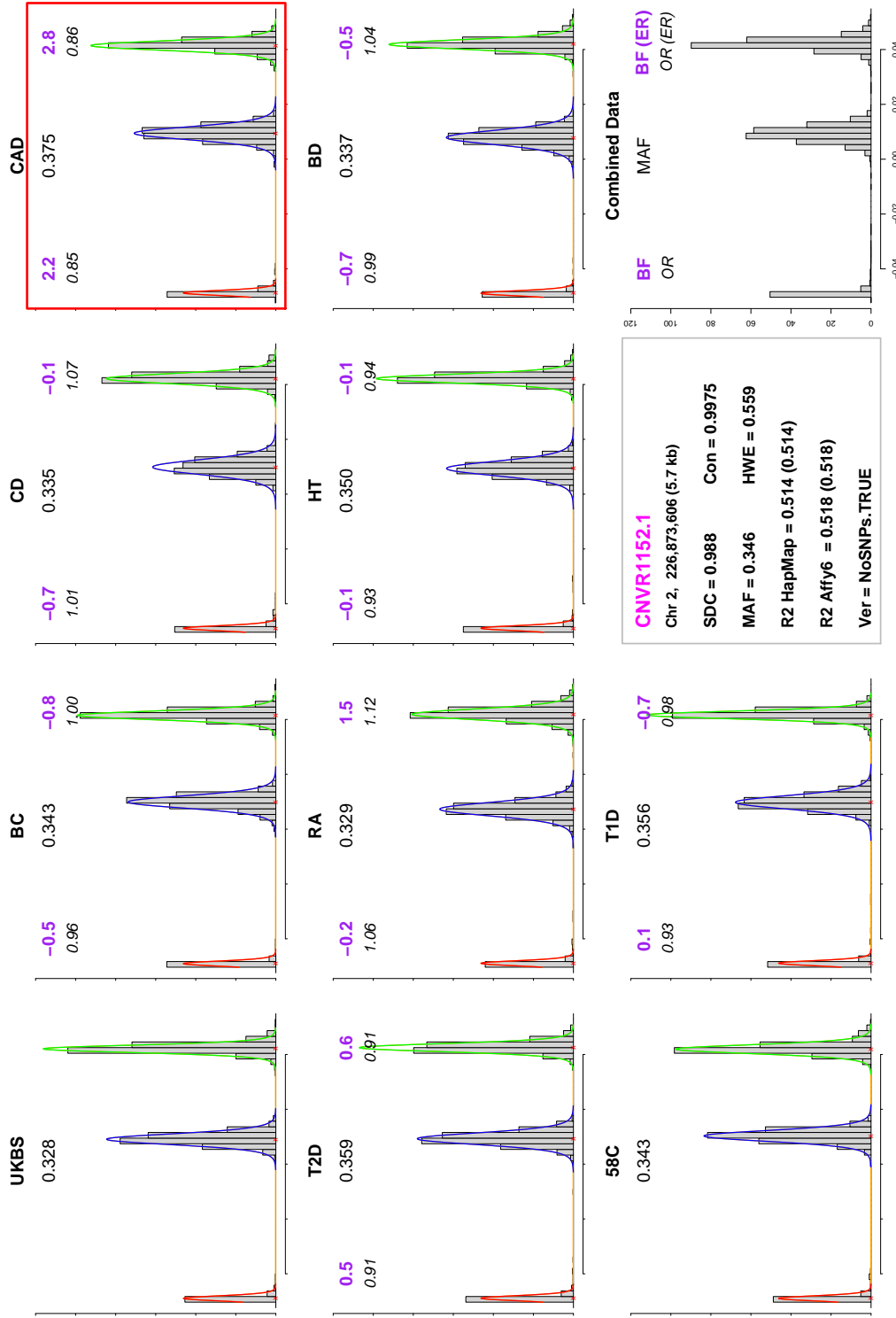
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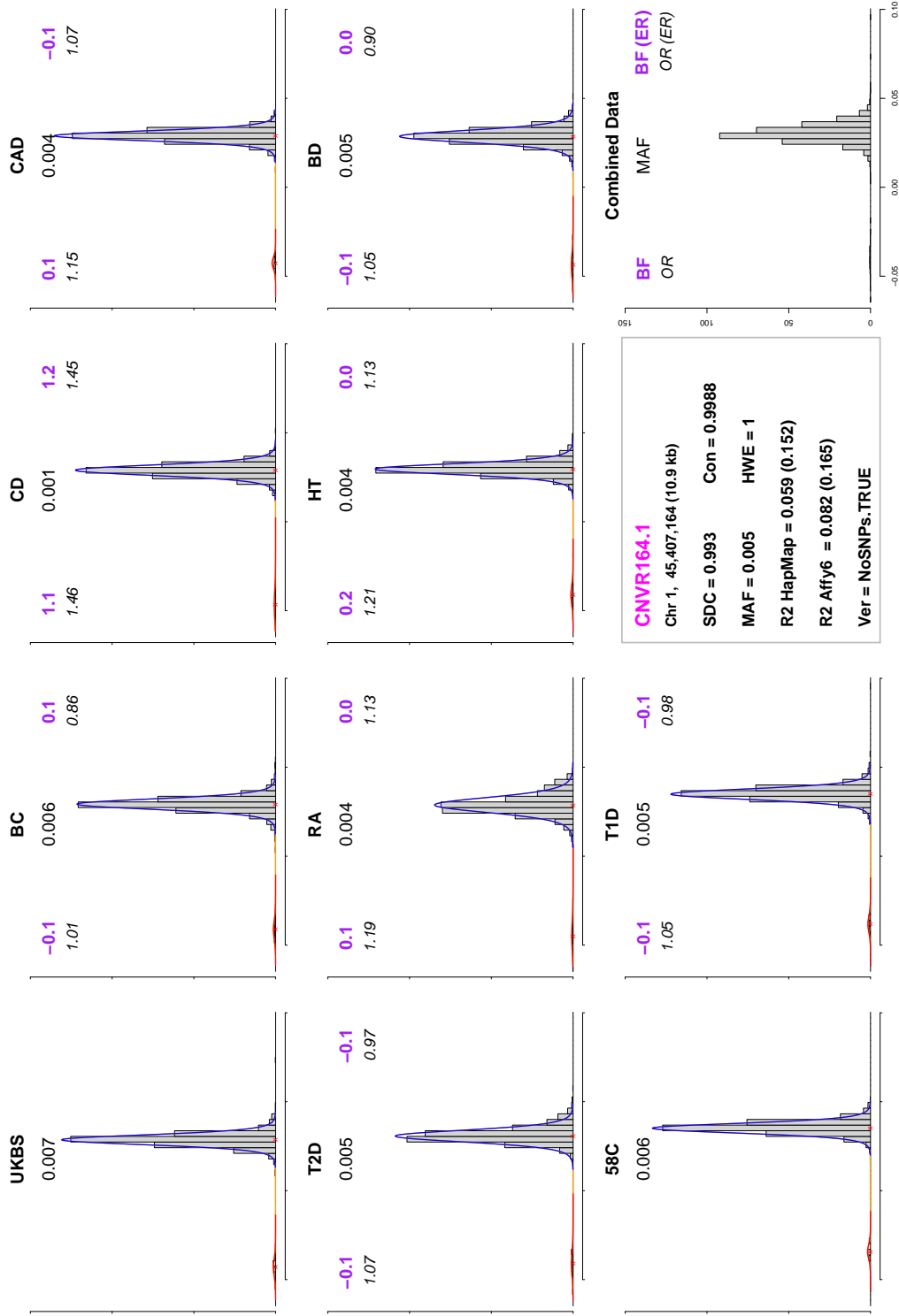
13 CNVR765.1



14 CNVR1152.1



15 CNVR164.1



16 WTCCC1_CNVR_1

