

The figure displays 25 box plots arranged in a 5x5 grid, each representing a different DNA repair gene. The y-axis for all plots is 'expression value', and the x-axis is 'group' with categories '0.Low\_expression' and '1.High\_expression'. Each plot shows the median, quartiles, and outliers for both groups. A Wilcoxon test result is provided for each gene, and a p-value bracket indicates a significant difference between the groups.

Gene	Wilcoxon Test Result
Repair1_DNA_glycosylases	Wilcoxon, $p < 2.2e-16$
Repair2_Other_BER_and_strand_break_joining_factors	Wilcoxon, $p < 2.2e-16$
Repair3_PARP_enzymes	Wilcoxon, $p < 2.2e-16$
Repair4_Direct_reversal_of_damage	Wilcoxon, $p < 2.2e-16$
Repair5_Repair_of_DNA_topoisomerase_crosslinks	Wilcoxon, $p < 2.2e-16$
Repair6_Mismatch_excision_repair	Wilcoxon, $p < 2.2e-16$
Repair7_xeroderma_pigmentosum	Wilcoxon, $p < 2.2e-16$
Repair8_TFIIH	Wilcoxon, $p < 2.2e-16$
Repair9_NER_related	Wilcoxon, $p < 2.2e-16$
Repair10_Homologous_recombination	Wilcoxon, $p < 2.2e-16$
Repair11_Fanconi_anemia	Wilcoxon, $p < 2.2e-16$
Repair12_Non_homologous_end_joining	Wilcoxon, $p < 2.2e-16$
Repair13_Modulation_of_nucleotide_pools	Wilcoxon, $p < 2.2e-16$
Repair14_DNA_polymerases	Wilcoxon, $p < 2.2e-16$
Repair15_Editing_and_processing_nucleases	Wilcoxon, $p < 2.2e-16$
Repair16_Ubiquitination_and_modification	Wilcoxon, $p < 2.2e-16$
Repair17_Chromatin_Structure	Wilcoxon, $p < 2.2e-16$
Repair18_Genes_defective_in_diseases_associated_with	Wilcoxon, $p < 2.2e-16$
Repair19_Other_identified_genes_with_known_or_suspe	Wilcoxon, $p < 2.2e-16$
Repair20_Other_conserved_DNA_damage_response_ge	Wilcoxon, $p < 2.2e-16$
Repair21_AllGenes	Wilcoxon, $p < 2.2e-16$