

Box plot showing the number of SNPs identified by four software packages: FSv7.4.1, FSv8.0.0, FSv8.0.0_robust, and SynthSeg+v2.0. The y-axis represents the number of SNPs, ranging from 0 to 10,000. The x-axis is labeled 'software'. Each box plot shows the median, quartiles, and outliers. Statistical significance is indicated by p-values for comparisons between FSv8.0.0 and FSv8.0.0_robust, and between FSv8.0.0_robust and SynthSeg+v2.0.

Software	Median	Q1	Q3	Min	Max	Outliers
FSv7.4.1	~1800	~1500	~2100	~1000	~2500	~3000, ~3500, ~4000, ~4500, ~5000, ~5500, ~6000, ~6500, ~7000, ~7500, ~8000, ~8500, ~9000, ~9500, ~10000
FSv8.0.0	~1800	~1500	~2100	~1000	~2500	~3000, ~3500, ~4000, ~4500, ~5000, ~5500, ~6000, ~6500, ~7000, ~7500, ~8000, ~8500, ~9000, ~9500, ~10000
FSv8.0.0_robust	~1800	~1500	~2100	~1000	~2500	~3000, ~3500, ~4000, ~4500, ~5000, ~5500, ~6000, ~6500, ~7000, ~7500, ~8000, ~8500, ~9000, ~9500, ~10000
SynthSeg+v2.0	~3500	~3000	~4000	~2500	~4500	~5000, ~5500, ~6000, ~6500, ~7000, ~7500, ~8000, ~8500, ~9000, ~9500, ~10000

Statistical significance (p-values) for comparisons between FSv8.0.0 and FSv8.0.0_robust, and between FSv8.0.0_robust and SynthSeg+v2.0:

- FSv8.0.0 vs FSv8.0.0_robust: $p = 1.19 \times 10^{-2}$ (purple line)
- FSv8.0.0 vs SynthSeg+v2.0: $p = 3.28 \times 10^{-14}$ (pink line)
- FSv8.0.0_robust vs SynthSeg+v2.0: $p = 3.28 \times 10^{-14}$ (pink line)
- FSv8.0.0 vs SynthSeg+v2.0: $p = 2.60 \times 10^{-2}$ (blue line)
- FSv8.0.0 vs SynthSeg+v2.0: $p = 1.00 \times 10^0$ (black line)

sub	1	sub-01	3	sub-03	5	sub-05	7	sub-07	9	sub-09
	2	sub-02	4	sub-04	6	sub-06	8	sub-08		

