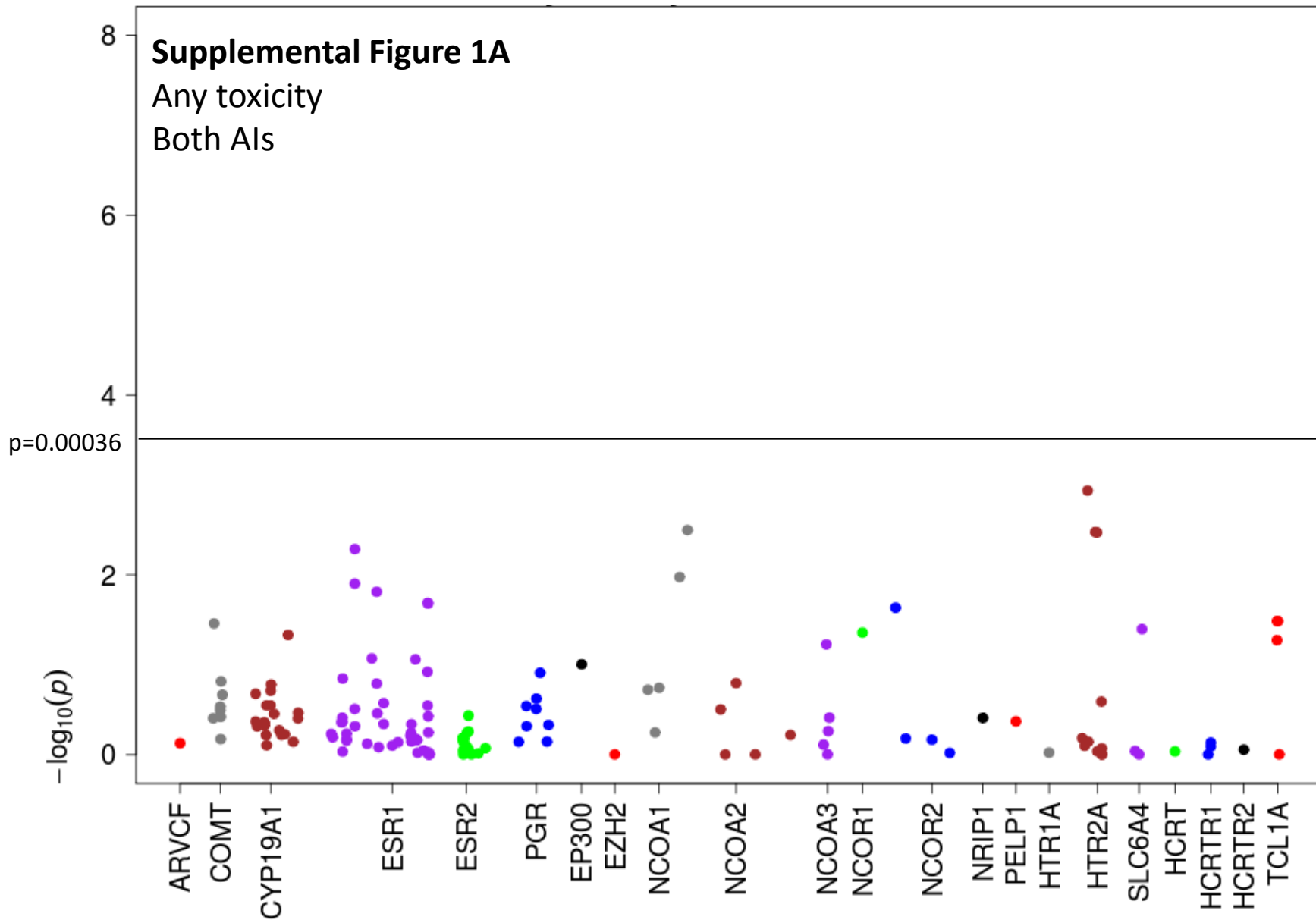**Supplemental Figure Legend**

Supplemental Figure 1. Manhattan plots depicting associations between candidate SNPs and treatment discontinuation using a recessive statistical model. Dashed line signifies level of statistical significance after Bonferroni correction (p=0.0003). AIMSS: Aromatase inhibitor-associated musculoskeletal syndrome; HR: hazard ratio. **A**. Treatment discontinuation because of any toxicity for patients treated with either AI. **B**. Treatment discontinuation because of AIMSS for patients treated with either AI. **C**. Treatment discontinuation because of any toxicity for patients treated with letrozole. **D**. Treatment discontinuation because of AIMSS for patients treated with letrozole.
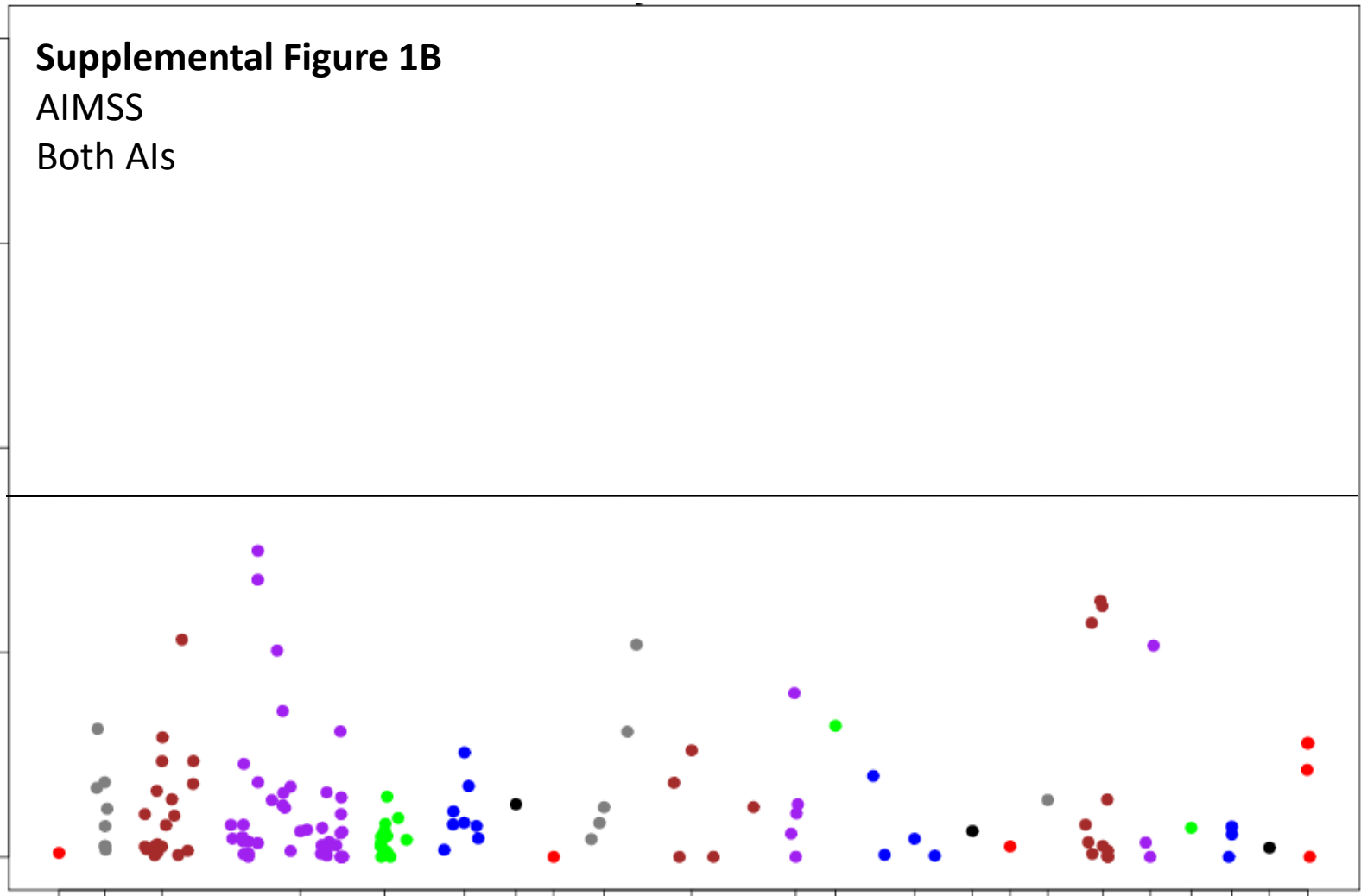
Supplemental Figure 1A
Any toxicity
Both AIs

Supplemental Figure 1B
AIMSS
Both AIs

Supplemental Figure 1C
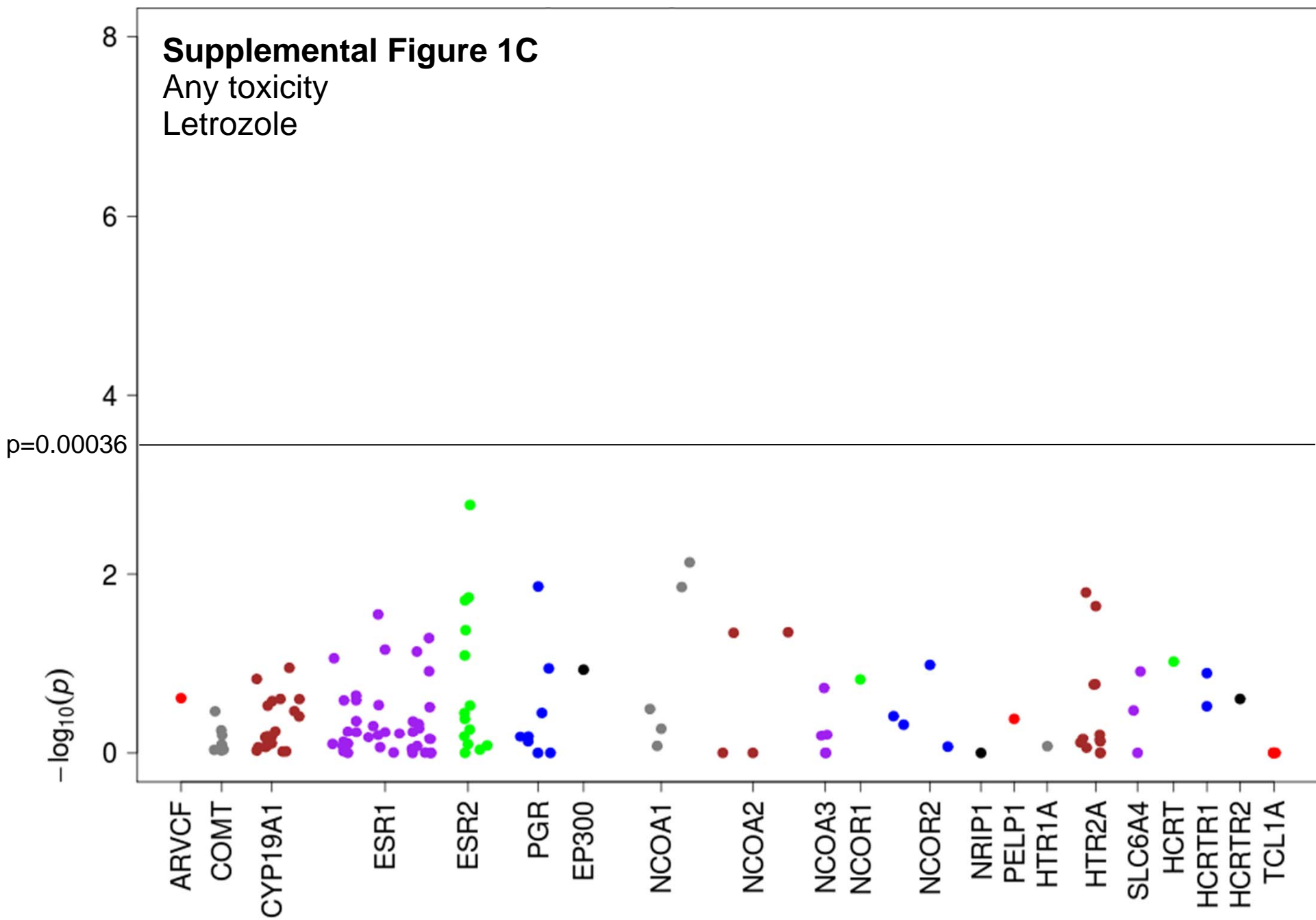Any toxicity
Letrozole

Supplemental Figure 1D
AIMSS
Letrozole