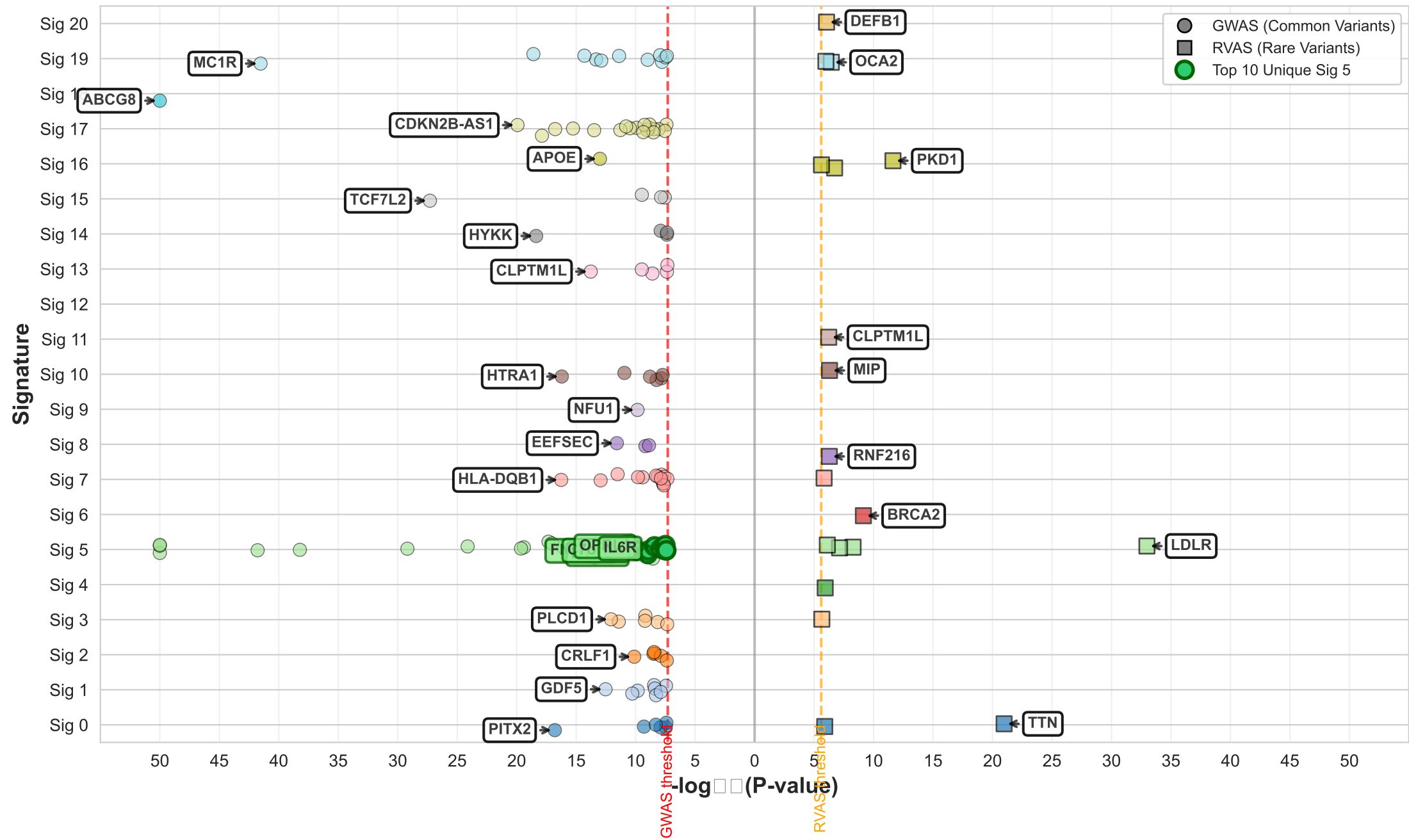


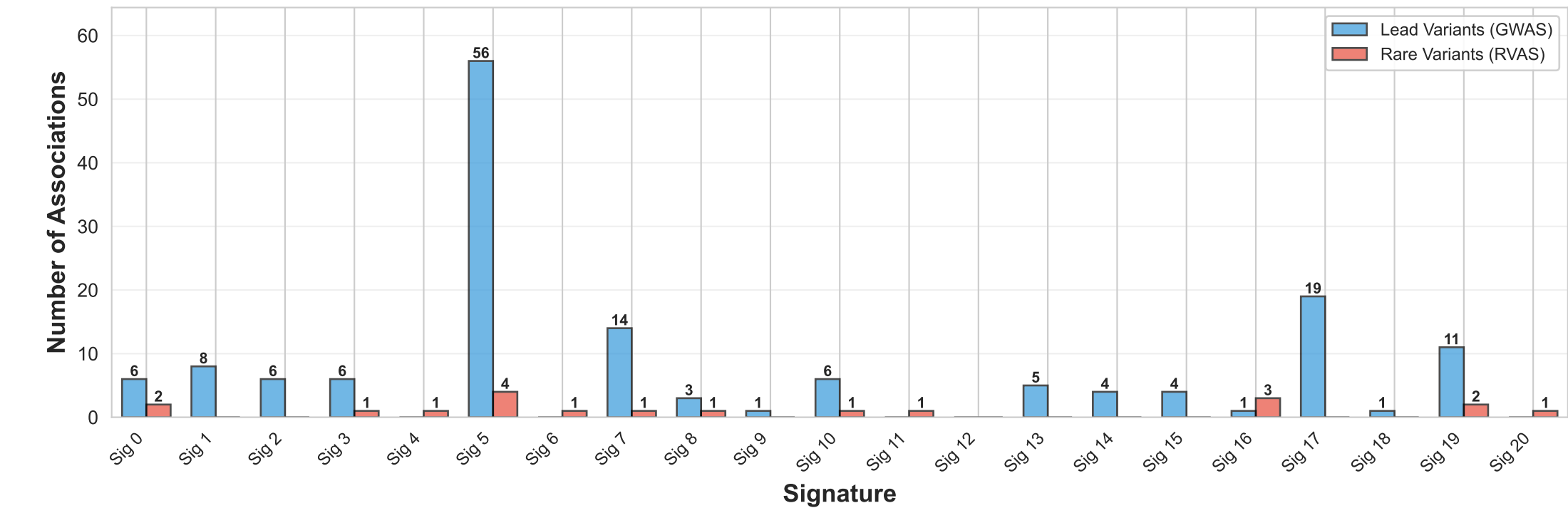
A. Genetic Associations: GWAS (left) and RVAS (right)



Signature Categories:

- Sig 0: Cardiac Arrhythmias
- Sig 1: Musculoskeletal
- Sig 2: Upper GI/Esophageal
- Sig 3: Mixed/General Medical
- Sig 4: Upper Respiratory
- Sig 5: Ischemic cardiovascular
- Sig 6: Metastatic Cancer
- Sig 7: Pain/Inflammation
- Sig 8: Gynecologic
- Sig 9: Spinal Disorders
- Sig 10: Ophthalmologic
- Sig 11: Cerebrovascular
- Sig 12: Renal/Urologic
- Sig 13: Male Urogenital
- Sig 14: Pulmonary/Smoking
- Sig 15: Metabolic/Diabetes
- Sig 16: Infectious/Critical Care
- Sig 17: Lower GI/Colon
- Sig 18: Hepatobiliary
- Sig 19: Dermatologic/Oncologic
- Sig 20: Health

B. Number of Associations per Signature



Top 10 Unique Sig 5 Loci

- FNDC3B
rs1499813
- HYOU1
rs2509121
- C7orf55
rs4732365
- OPRL1
rs8121509
- IL6R
rs6687726
- PLCG2
rs35039495
- NR2F2-AS1
rs7168222
- R3HDM2
rs4760278
- UNC5C
4:96088139_ATATG_A
- LIPC
rs1532085