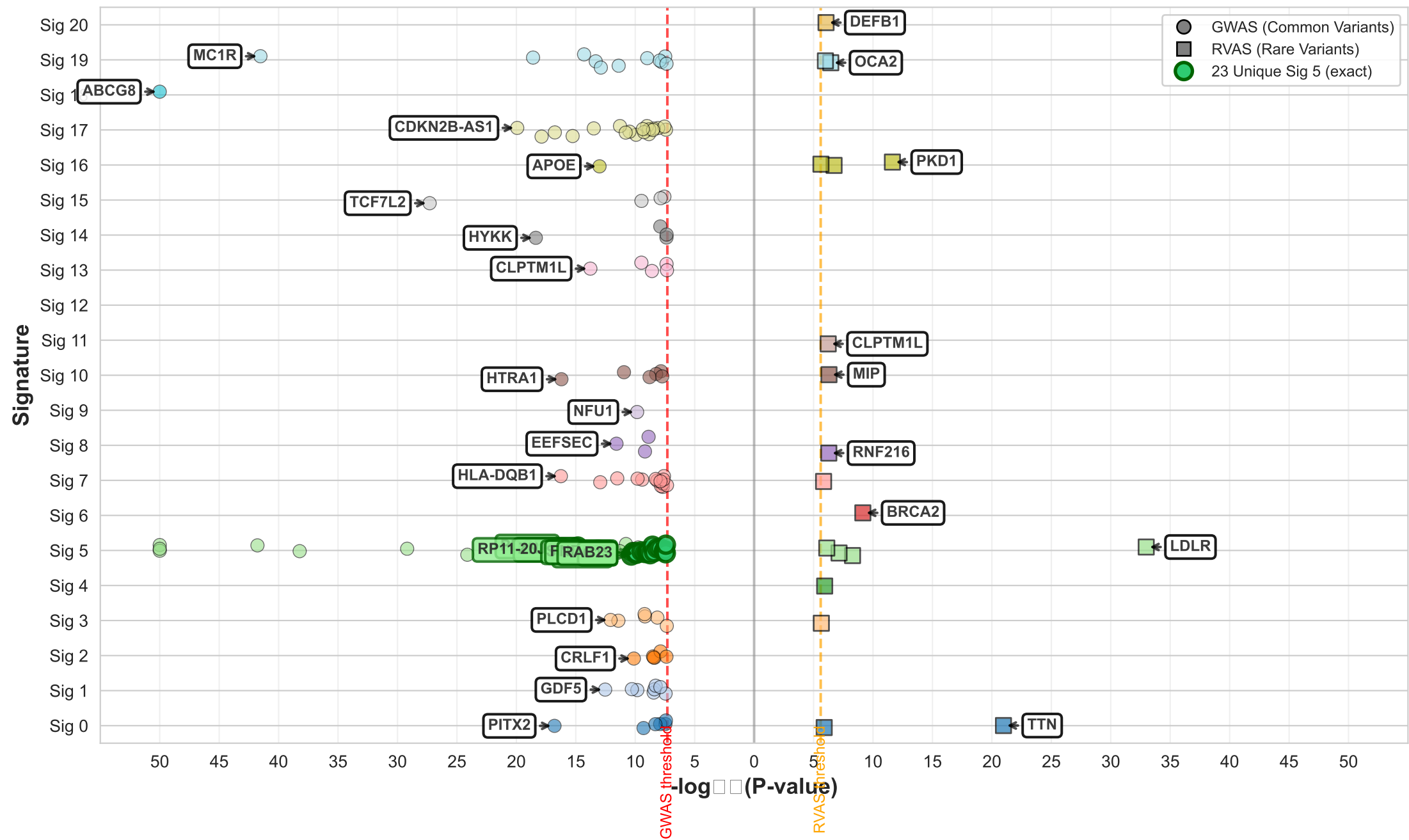
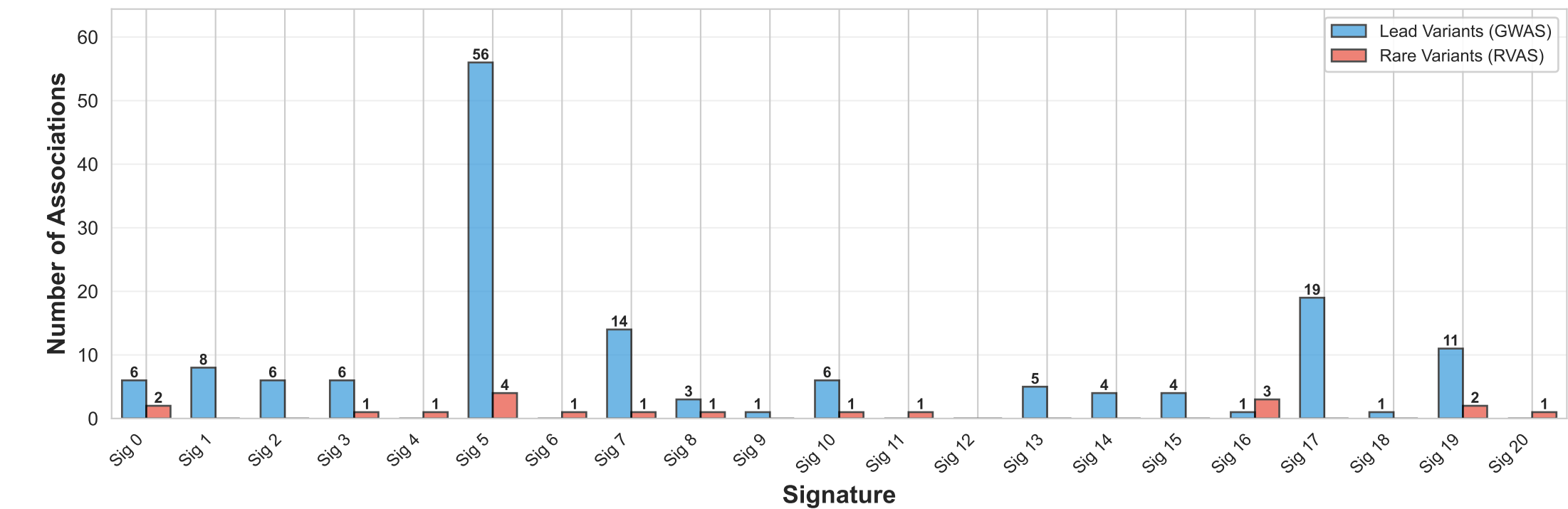


A. Genetic Associations: GWAS (left) and RVAS (right)



- 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



- 23 Unique Sig 5 Loci  
(exact matching)
- |                 |                   |
|-----------------|-------------------|
| 1. PDGFD        | 13. C7orf55       |
| 2. ZNF259       | 14. HLA-D0B       |
| 3. RP11-20J15.3 | 15. WWP2          |
| 4. CFDP1        | 16. OPRL1         |
| 5. SCARB1       | 17. RP11-306G20.1 |
| 6. FND3B        | 18. IL6R          |
| 7. C15          | 19. PLCG2         |
| 8. RAB23        | 20. NR2F2-AS1     |
| 9. SMAD3        | 21. R3HDM2        |
| 10. ARMS2       | 22. UNC5C         |
| 11. HYOU1       | 23. LIPC          |
| 12. EHB1        |                   |