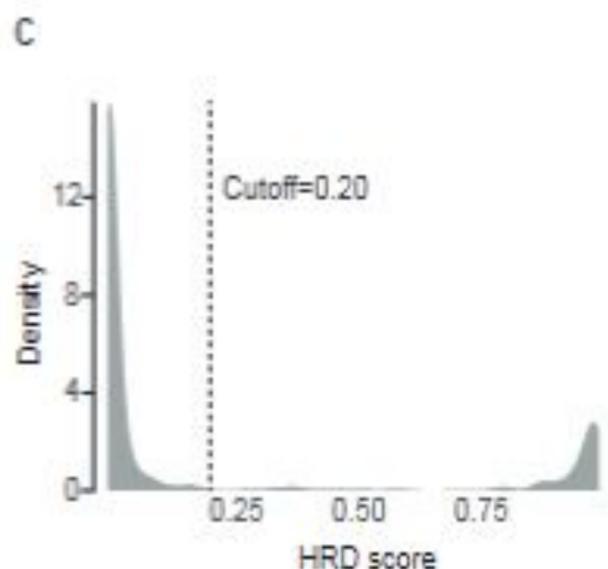


Advancing HRD Detection: The Power of Whole-Genome Sequencing

1,300+ Whole Genomes Paired with Rich Clinical Insights— Unlocking the Power of Precision Medicine

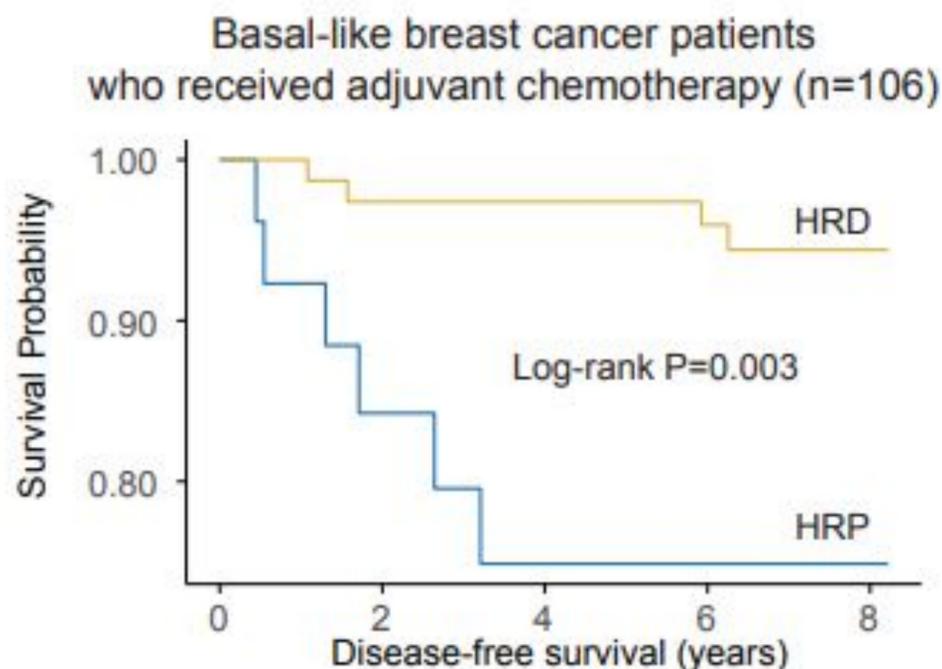


HRD scores, driven by **multifaceted whole-genome insights**, reveal a **clear bimodal distribution**—removing the reliance on arbitrary cutoffs employed by traditional testing methods

- WGS powered HRD - yielding 315 HRD cases (23.1%; 315 out of 1,364) in our cohort.
- Out of 315 HRD cases:
 - Causal pathogenic variants identified in 130 cases (41.3%).
 - Germline defects detected in 90 cases (28.6%, 90/315).
 - Somatic acquired defects observed in 40 cases (17.8%, 40/225).

Multifaceted Whole-Genome HRD Scores: A Key Indicator of Improved Survival Outcomes

- HRD cases were highly enriched in the basal-like cancers (73.9%; 156 out of 211),
- HRD cases demonstrated significantly better disease-free survival compared to HR-proficient (HRP) cases (hazard ratio: 0.37, 95% CI: 0.15–0.89, $p=0.027$).



Comprehensive Cohort Breakdown: HRD Status, Subtypes, and Key Genetic Drivers

