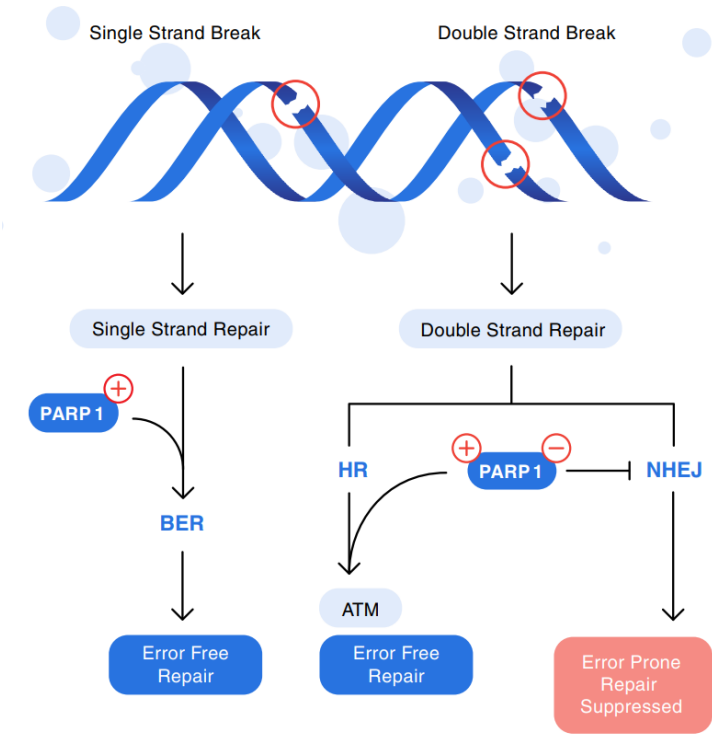


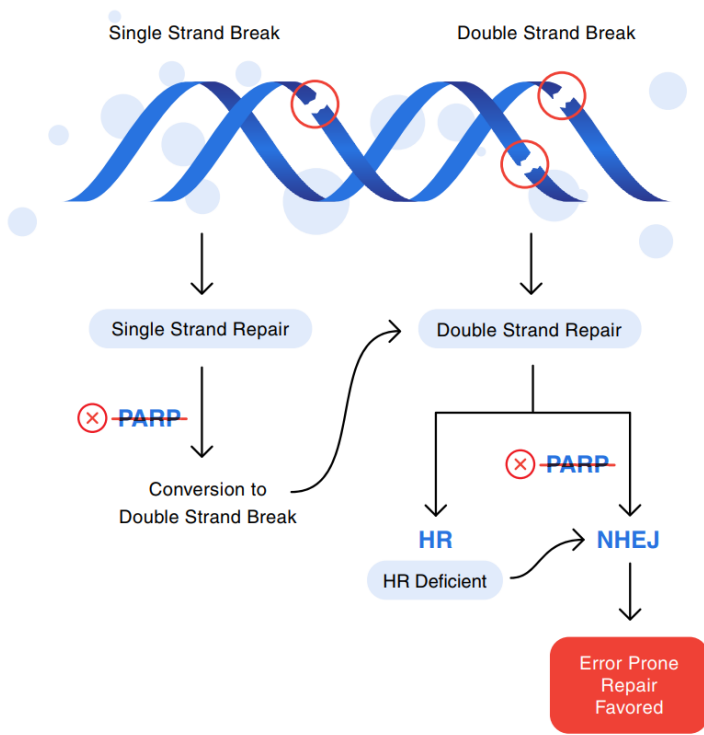
# Oncomine™ BRCA Research Assay

Poly-(ADP-ribose) polymerase (PARP) maintains genomic integrity by supporting single strand (SS) and double strand (DS) DNA break repair

A

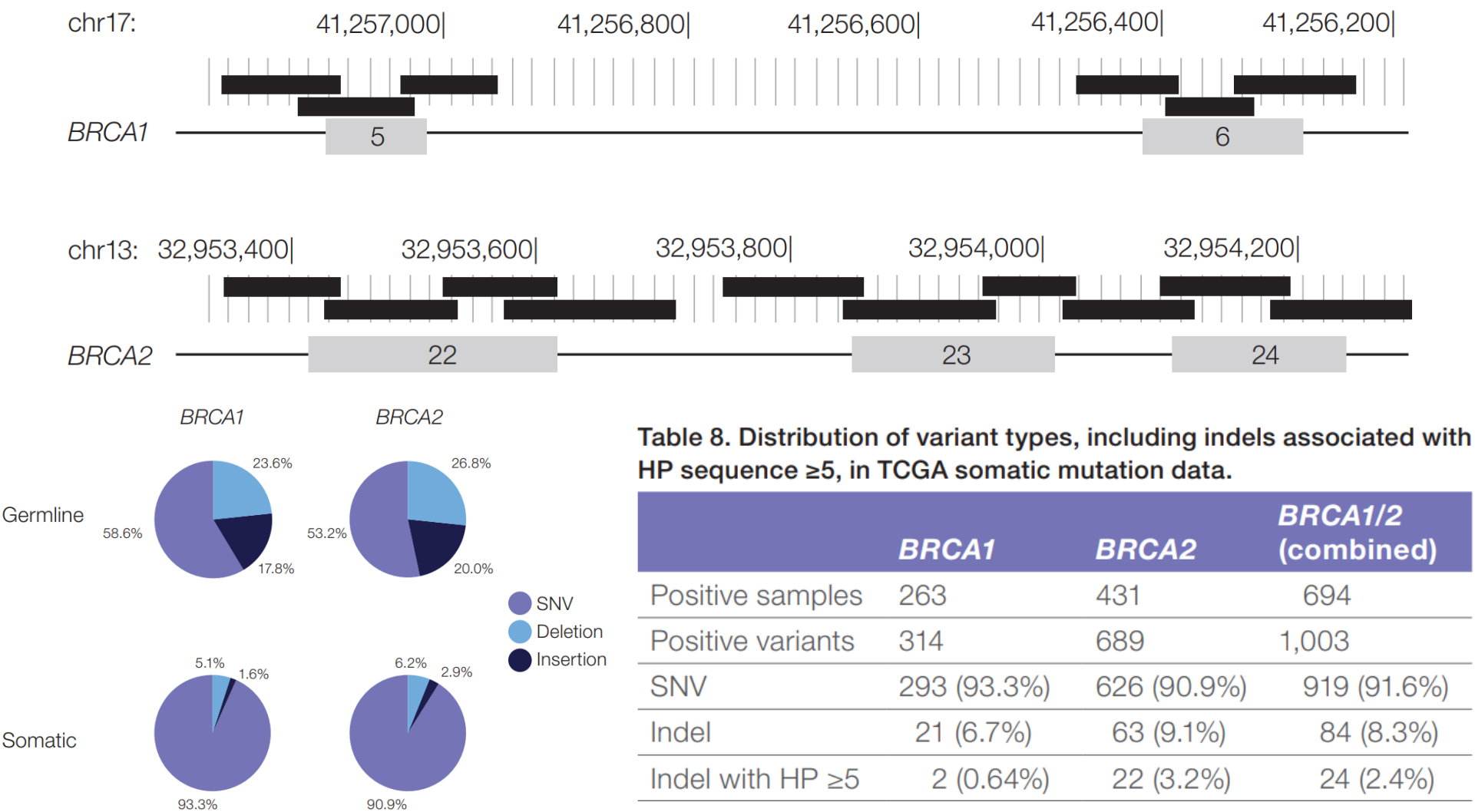


B



LYNPARZA<sup>®</sup> (olaparib) is a medication that has been approved by both the European Medicines Agency (EMA) and the U.S. Food and Drug Administration (FDA). Olaparib is a targeted therapy known as a PARP inhibitor, and it is used to treat certain types of cancer, particularly ovarian and breast cancers.

The Oncomine *BRCA* Research Assay covers 100% of the coding sequences of *BRCA1/2*, including all splice and acceptor sites, with an average extension of 63 bp into adjoining introns. The recommended input is 20 ng of DNA extracted from either FFPE or blood samples.





## Ion PGM Dx System performance specifications

### Ion 318 Dx Chip

|                     |                        |
|---------------------|------------------------|
| Output <sup>†</sup> | 600 Mb–1 Gb (200-base) |
| Reads               | 4–5.5 million          |
| Run time            | 4.4 hr (200-base)      |



Table 1. Library preparation, template preparation, and sequencing workflows.

| Sample type | Library preparation | Library multiplexing | Template preparation and sequencing                 | Template multiplexing          |
|-------------|---------------------|----------------------|---|--------------------------------|
| Somatic     | Ion Chef System     | 8                    | Ion Chef System, Ion PGM System, Ion 318 Chip       | One 8-plex library per chip    |
|             |                     |                      | Ion Chef System, Ion S5 System, Ion 530 Chip        | Four 8-plex libraries per chip |
| Somatic     | Manual              | 8                    | Ion OneTouch 2 System, Ion PGM System, Ion 318 Chip | One 8-plex library per chip    |
|             |                     |                      | Ion Chef System, Ion S5 System, Ion 530 Chip        | Four 8-plex libraries per chip |
| Germline    | Ion Chef System     | 8                    | Ion Chef System, Ion PGM System, Ion 318 Chip       | Four 8-plex libraries per chip |
|             |                     |                      | Ion Chef System, Ion S5 System, Ion 530 Chip        |                                |
| Germline    | Manual              | 32                   | Ion OneTouch 2 System, Ion PGM System, Ion 318 Chip | One 32-plex library per chip   |
|             |                     |                      | Ion Chef System, Ion S5 System, Ion 530 Chip        |                                |

# Workflow for Oncomine *BRCA* Research Assay

- Extract DNA from FFPE Ovarian Carcinomas
- DNA Library Preparation
- Sequencing on The Ion PGM System
- Analysing data by Torrent Suite Software

# DNA Library Preparation

