

Open Peer Review on Qeios

## **SMRT Sequencing**

National Cancer Institute

## Source

National Cancer Institute. <u>SMRT Sequencing</u>. NCI Thesaurus. Code C146819.

A proprietary third-generation DNA sequencing system from Pacific Biosciences that uses zero-mode waveguides (ZMWs) and phospholinked nucleotides. A single DNA polymerase enzyme is affixed at the bottom of a ZMW structure with a single molecule of DNA as a template. A fluorescent tag is cleaved off with each base addition and is detected to create the sequence.

Qeios ID: WJ9KMK · https://doi.org/10.32388/WJ9KMK