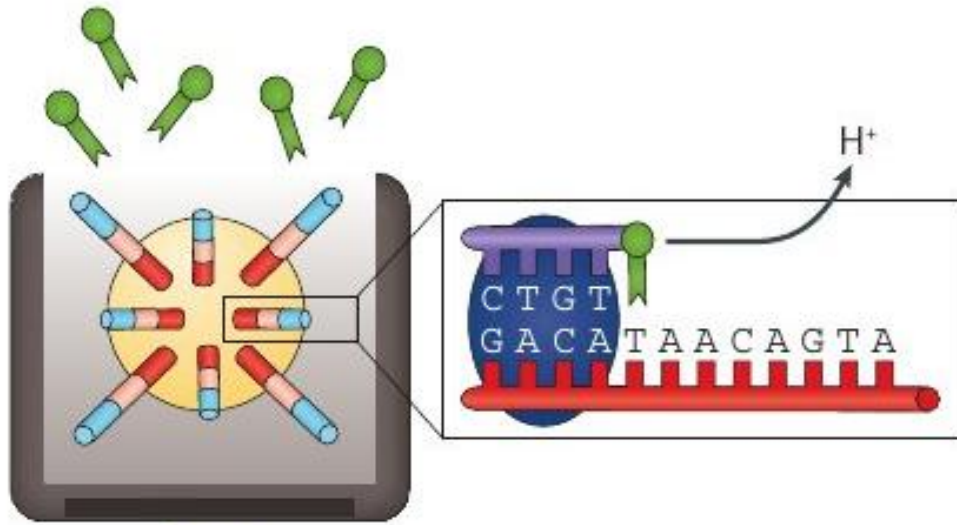
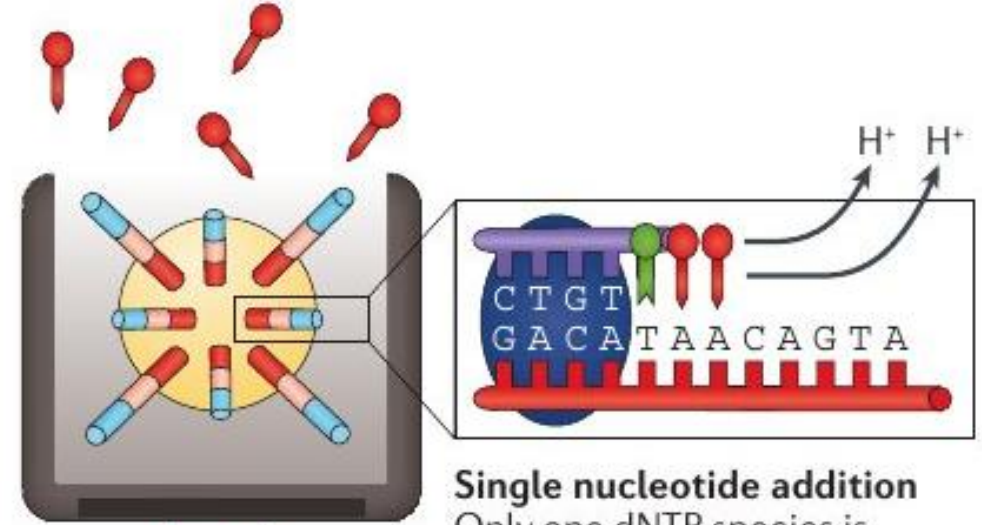
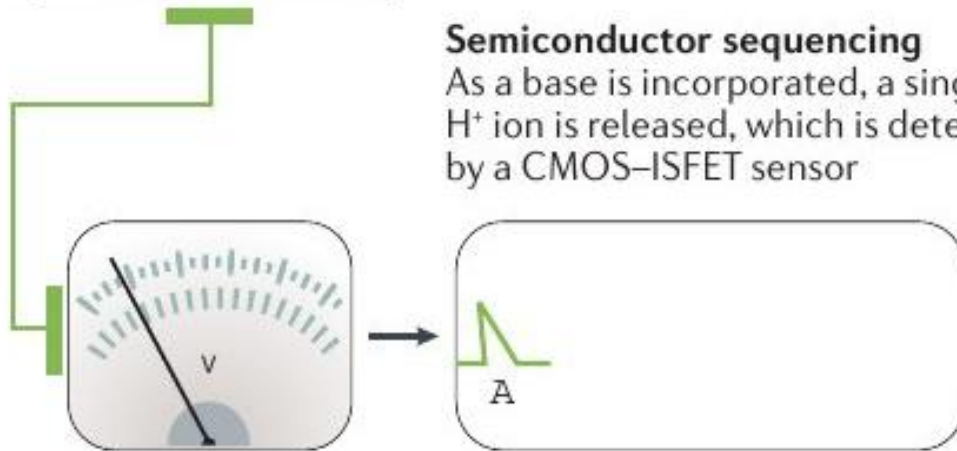


**b Ion Torrent  
(Thermo Fisher)**



**Semiconductor sequencing**  
As a base is incorporated, a single  $H^+$  ion is released, which is detected by a CMOS-ISFET sensor



**Single nucleotide addition**  
Only one dNTP species is present during each cycle; several identical dNTPs can be incorporated during a cycle, increasing the emitted ions

