

Solvay Colloquium



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Development of Realtime Nanoscale DNA Sequencing Technology

In September 2016, astronauts aboard the International Space Station sequenced DNA using a one-Watt, 90-gram device connected to a laptop computer. This device, the MinION, decodes individual DNA strands as they are driven baseby-base through a nanoscale hole in a thin film. In my talk, I will describe key steps in the development of this nanopore DNA and RNA strand sequencing technology from its earliest conception more than 25 years ago to its recent commercialization and application. I will then discuss features of these nanopore sequencers that will impact genomics going forward including portability, near real-time readouts, and long contiguous single strand reads exceeding 150,000 bases.

Wednesday 3 May 2017 at 4.00 P.M.

COFFEE AND TEA WILL BE SERVED AT 3.45 P.M. IN FRONT OF THE SOLVAY ROOM

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