

Oxford Nanopore sequencing and data analysis (ONS)

DNA sequencing technologies have rapidly evolved in the past decade. Although traditional Sanger sequencing method is still widely used, the Next Generation Sequencing (NGS) technologies have completely revolutionized the DNA/ RNA/ genome sequencing and their applications. The Oxford Nanopore Sequencing technology (which is a third generation NGS technology), uses simplified and miniaturized instrumentation to rapidly generate long read DNA sequences, and is currently the only method that can facilitate direct sequencing of very long DNA/RNA molecules in real time.

The aim of this workshop/course is to familiarize the participants with the fundamentals of Oxford Nanopore sequencing technology and provide hands-on training on complete sequencing of *Escherichia coli* genome and analysis of the sequence data up to gene annotation. During the workshop, participants will be familiarised with the Oxford Nanopore sequencing technology and the basics of data analysis.

Title	: Oxford Nanopore sequencing and data analysis (ONS)
Course Duration	: Nov 14, 2019 to Nov 22, 2019 (7 training days)
No. of Seats	: 10
Educational Qualification	: M.Sc. or above with basic working knowledge in molecular biology
Medium of instruction	: English
Venue of the course	: CSIR-National Chemical Laboratory, Pune
Course Fee	: Rs. 15,000/- (students), Rs. 20,000/- (faculties), Rs. 25,000/- (industry sponsored candidate) and USD 5,000/- for foreign nationals. For foreign nationals, the course fee includes training fees, expenses towards lodging and boarding, local transportation costs, other associated expenses and institute overheads; whereas for the Indian nationals, the course fee includes training fees, lunch and breakfast and institute overheads. Accommodation for Indian nationals will be provided in NCL at nominal charges.
Course Coordinators	: Dr. Narendra Kadoo (ny.kadoo@ncl.res.in) Dr. Dhanasekaran Shanmugam (d.shanmugam@ncl.res.in)