CTBMB Long Read Access Grant: Application Template

Applications should follow the template below and should be no more than 1 single sided A4 page when complete.

Project Title:

Significance:

Provide a brief introduction to the project and describe how long read (and/or portable) sequencing will help achieve its overall aims. If there are any unique features of the MinION system that are a particularly good fit for the project describe those here.

Project plan:

Describe the sample(s) that you would like to sequence (eg species, tissue type), the data you expect to obtain (eg whole genomic reads from a single species, full length amplicons, full length transcripts), and (in broad terms) what it will be used for (eg de novo genome assembly, whole metagenome analysis, haplotype phasing etc).

Feasibility:

List members of the project team and indicate how their expertise will contribute to the overall success of the project.

Provide technical details of your project that will allow assessors to judge its feasibility. For example, if you are planning a genome assembly you should provide an indication of genome size (eg from related organisms) so that coverage can be estimated assuming realistic output from a single flow cell (5-10Gb). What facilities and expertise are available for sample preparation? If there are precedents (eg in the published literature) indicating the feasibility of the planned project please cite those here.

The CTBMB is able to provide access to the MinION sequencer and a computer for initial data processing, flow cells, wash kits and basic library preparation kits (Rapid Sequencing Kit & Ligation Sequencing Kit). This should be sufficient for projects planning to use untargeted genomic DNA sequencing. For other applications (eg direct RNA sequencing, targeted sequencing) other kits are required and will need to be purchased by grant recipients. Please see <https://store.nanoporetech.com/kits.html> for more information. If you require additional kits please describe what will be required in this section.