

## RFA 2018 The Genetic Resources Core Facility, Oxford Nanopore Sequencing

The Genetic Resources Core Facility (GRCF) is a JHU service center including the Core Store, Biorepository & Cell Center and the DNA Services. Collectively, these groups produce a number of products and services to aid researchers performing studies in molecular biology and genetics. It is our mission to provide high quality, cost effective research services and products to investigators throughout the Johns Hopkins Scientific Community.

The GRCF is pleased to announce the award of \$25,000 in Core Coins funding to be used by SOM faculty for Oxford Nanopore sequencing on the GridION platform.

Single molecule sequencing on the Oxford Nanopore GridION platform has a number of applications, including rapid sequence identification, utilizing long reads for improved genome assembly, analysis of full-length RNA transcripts from cDNA, direct sequencing of RNA molecules, metagenomic analysis, structural variant detection, copy Number detection in complex regions, and any experiment where short reads are insufficient. The GRCF will review applications submitted and award funding based on project aims. We anticipate a single Oxford run to be \$500-\$700 and encourage investigators to explore the many applications of this platform. We are limiting initial individual funding requests to \$2,500. We strongly encourage new users and junior faculty to apply.

Applications must be received by **October 1st, 2018**.

Please send the following to David Mohr ([dwmohr@jhmi.edu](mailto:dwmohr@jhmi.edu)). Applications should be no more than 1 page:

1. Name
2. Project Title
3. Brief description of your proposed project, including:
  1. specific aims
  2. type of data requested (direct RNA, long reads, metagenomic, etc.)
  3. statement on how the use of Oxford Nanopore sequencing will advance your research
4. Proposed project start date.

Awards will be announced by **Nov 1st, 2018**. Projects will be reviewed by the GRCF and selected with a focus on junior faculty, new faculty, and diverse applications that leverage the novel nature of single molecule sequencing. Awardees must agree to acknowledge the Core Coins program and the GRCF in publications resulting from services offered. Core Coins are not renewable, and all work funded with Core Coins must be completed by June 2019. Users will be responsible for downstream analysis, but we will offer guidance.