**Instructions for ONT Sample Delivery to the ATRF Sequencing Facility:**

. **ONT Direct RNA sequencing:** Please send us at least 400 ng poly-tailed RNA or 3 ug total RNA per sample. Asses the purity of the extracted RNA by Nanodrop – OD 260/280 of 2.0 and OD 260/230 of 2.0–2.2. Bring this quantity of RNA in 15 ul of nuclease-free water and ship it in dry ice.

**. ONT Whole genome sequencing**: Please send at least 5 ug of HMW DNA per sample. We recommend the HMW Circulomics kit (NB-900-001-01) for cell DNA extraction. Asses the purity of the extracted DNA by Nanodrop – OD 260/280 of 1.8 and OD 260/230 of 2.0–2.2. Bring the 5 ug in 47 ul EB buffer or nuclease-free water and ship it in dry ice.

**. ONT Adaptive Sampling sequencing:** Please send at least 5 ug of HMW DNA per sample. We recommend the HMW Circulomics kit (NB-900-001-01) for cell DNA extraction. Asses the purity of the extracted DNA by Nanodrop – OD 260/280 of 1.8 and OD 260/230 of 2.0–2.2. Bring this quantity in 75-200 ul EB buffer or nuclease-free water and ship it in dry ice.

**. ONT Ultralong sequencing:** Please send 6 million human cells per sample (or the cell number equivalent to 40 ug of DNA) as a frozen pellet or cryopreserved vial. Please ship the cells in dry ice.

**. ONT Single Cell sequencing:** Please send 25 ng of cDNA prepared using 10X Genomics Next GEM Single Cell 3’ kit (V3.1). Bring this quantity in 25 ul of nuclease-free water and ship it in dry ice.

. **ONT RNA Iso-seq:** Please send 10 ng of polyA tailed RNA or 1 ug of total RNA per sample. Asses the purity of the extracted RNA by Nanodrop – OD 260/280 of 2.0 and OD 260/230 of 2.0–2.2. Bring this quantity of RNA in 18 ul of nuclease-free water and ship it in dry ice.

Address to: Juanma Caravaca, Sequencing Facility

**Shipping address:**

Advanced Technology Research Facility

8560 Progress Drive, Room D3040

Frederick, MD 21701

 FNL Couriers no longer accepted pickup/delivery requests via the phone or email. All FNL Courier pickups from Bethesda to Frederick, must be submitted through the [Ship Wizard system](https://ncifrederick.cancer.gov/Cad/ShippingWizard). All shipments that are transported on the highway (FNL Courier pickups) must be classified as a Hazardous or Non Hazardous shipment and the only way to have that done is to submit a Request for Shipment in the [Ship Wizard system](https://ncifrederick.cancer.gov/Cad/ShippingWizard).

Ship Wizard Link:  <https://ncifrederick.cancer.gov/Cad/ShippingWizard>

This is a free service, but you need to enter your PID number when filling out the form. If you do not know your PID, you can check with your AO or this information will also be in your NAS request.

Please avoid shipping on Fridays to rule out delays over the weekend and let us know when you ship the samples.

Please fill in the sample details in the sample manifest form as best as you can and send it to [caravaj@nih.gov](mailto:caravaj@nih.gov).

If you have not already done it, please submit a NAS request at the link below. Our facility is listed under: Sequencing Facility, Long Read Technology (CCR).

<https://ncifrederick.cancer.gov/Services/Accessioning/Home/SignIn>

Let me know if you have any additional questions for us.

Thanks

Juanma