

NanoString nCounter Analysis system: Host and Tumour Profiling unit, Cancer Research UK - Edinburgh Centre, IGMM.

If you are considering using the service:

- 1) For pricing & scheduling of studies, and general NanoString advice contact the Host and Tumour Profiling Unit: Alison Munro nanostring@igmm.ed.ac.uk

Running samples on NanoString at HTPU, IGMM:

- 1) Once you have decided to proceed with a study, contact HTPU for pricing and scheduling of your study. For clients located outwith The University of Edinburgh a Supply of Services Agreement must be signed by both parties.
- 2) CodeSets and Master Kits are purchased directly by the client from NanoString and delivered to the Host and Tumour Profiling Unit:
Alison Munro
Host and Tumour Profiling Unit
Cancer Research UK Edinburgh Centre
MRC IGMM
University of Edinburgh
Crewe Road South
Edinburgh
EH4 2XR
- 3) Preparation and quantification of RNA samples are performed by the client. Technical replicates are not always required for gene expression, however biological replicates should be run where possible. Purified RNA sample quality should be evaluated via a spectrophotometer by measuring absorbance at 230nm, 260nm and 280nm. We recommend a 268:280 ratio of 1.9 or greater, and a 260:230 ratio of 1.8 or greater for optimal results.
- 4) A total of 8µl per sample should be shipped on dry ice to HTPU at a defined concentration (i.e. 20ng/µl for cell line/tissue RNA and 60ng/µl for FFPE RNA). Samples should be supplied in 1.5ml tubes that are clearly labelled; a simple numbering system of tubes (1-12) is preferred. Results will be labelled with these numbers, however if you would prefer to have results labelled with more detailed sample names these can be provided by e-mail.
- 5) Once the samples, CodeSets and Master Kits have arrived at HTPU, and a sample submission form has been received, your study will be scheduled. We would aim to schedule your run and provide results within 4 weeks, or by a mutually agreed date.
- 6) On completion of your study we will provide you with the Reporter Code Count (RCC) files generated by the nCounter Digital Analyzer detailing the number of counts for each target, and the associated Reporter Library File (RLF) containing the information used during image processing to assign target identities to the barcodes.
- 7) Analysis of results is done by the client using nSolver software which can be downloaded from the NanoString website <https://www.nanostring.com/products/analysis-software/nsolver>