Sample Preparation for Illumina experiments at TCAG

RNA analysis (including miRNA)

For the best results, we require 10 µl of total RNA at 100ng/µl for each sample. We suggest using high quality nuclease-free water for your dilutions. We will use 2 µl to re-quantify the RNA using the nanodrop, 2 µl on the bioanalyzer for quality control, and 5 µl for the IVT. We will send you a report of the quality of your RNA and cRNA. When you do bring/ship your samples to the lab, please do so on dry ice. For RNA quantities that fall outside of these guidelines, please consult with us before submitting your samples.

DNA analysis

Infinium genotyping (all DNA at concentration of 50 ng/µl)

For all Infinium genotyping experiments, we recommend that DNA is quantified by picogreen or nanodrop. We also require an agarose gel picture of your samples to verify their integrity.

Chip	Minimum amount of DNA	Amount to submit to facility	Comment
1M-Duo	400 ng	800 ng	
610-Quad	200 ng	400 ng	
CNV-370-Quad	200 ng	400 ng	
Human27 Methylation	500 ng - 1 µg	500 ng - 1 µg	Bisulfite treated
iSelect	200 ng	400 ng	

Goldengate

DNA samples should be normalized to 50 ng/µl (in TE or water). We will require 10-15 µl of each sample in a 96 well plate (you do not need to leave blank wells and any 96 well plate is fine) - please verify that the plates are properly sealed (evaporation will change the concentration). We will also send you a sample sheet that will need to be filled out – please indicate the sample names, their well positions on the plate, and any family, gender or replicate information.