

DNA Extraction Projects Supplemental Information

Methods and Data Delivery

DNA is extracted from whole blood or cell pellets using the Qiagen Puregene DNA Isolation Kit according to the manufacturer's instructions. DNA extraction from tissue can be performed using either the DNEasy kit (Qiagen) if only DNA is needed, or Trizol (Invitrogen) when study design requires extraction of RNA and DNA from the same tissue sample.

Quantitation/Qualitation

The Genomics Research Core checks isolated DNA quantity and quality using a spectrophotometer. The concentration and purity is measured by reading the Absorbance at 260 nm and 280 nm wavelengths. High quality DNA preparations have a A260/A280 nm wavelength ratio of 1.7-2.0. Ratios that deviate from this range, indicate protein or RNA contamination, and the sample would require repurification.

Sample Storage

Following extraction the DNA is stored at -20°C in DNA Hydration Solution, which is supplied with the Genra Puregene DNA Isolation Kit.

Reporting

The Investigator is provided with a spreadsheet containing the Absorbance at 260 nm and 280 nm wavelengths, A260/A280 nm wavelength ratio, the DNA concentration, hydration volume and the total yield of DNA for each sample.