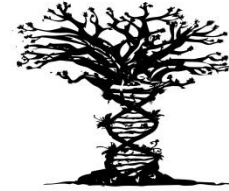


# Foundations for Genomics



**What:** From standard molecular technology to ‘omics’ application in 3 days

**Where:** Centre of Proteomic and Genomics Research, Observatory

**When:** to be confirmed

**Contact:** linda.dewaal@cpgr.org.za

**Cost:** R5000/participant

**Number:** 8 participants per course

## Workshop Program

### DAY 1

- Welcome & Project Design and Ethics considerations
- Genomics 101
- The importance of quality management systems for reliable “omics” results
- Effective sample preparation & troubleshooting
- Array Technologies – theory and applications
- Introduction in proteomics

### DAY 2

- An introduction to Real time PCR\*
  - An introduction to Next Generation Sequencing\*
  - Practical examples of completed NGS projects
  - Diagnostic Applications
- \*Covering assay principles, applications, data QC analysis and troubleshooting.

### DAY 3

- Bioinformatics - an introduction to data analysis
- Practical Bioinformatics
- Bioinformatics without a bioinformatician