

Foundations for Genomics



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

When: 1-3 March 2017

Workshop Program

Wednesday 1 March

- 09: 00 Welcome & Project Design and Ethics considerations – Linda de Waal
- 09:30 The importance of quality management systems for reliable “omics” results – Busiswa Kekana
- 10:15 Effective sample preparation & troubleshooting – Lebo Seutloali
- 11:00 TEA
- 11:30 Genomics 101 – Dr. Shane Murray
- 13:00 Lunch
- 14:00 Array Technologies – theory and applications – Jo McBride
- 14:30 Introduction in proteomics* – Dr. Liam Bell

Thursday 2 March

- 09:00 Introduction to Next Generation Sequencing* - Kenalemang Ntlhokoa
- 10:00 TEA
- 10:30 Introduction to Next Generation Sequencing - Kenalemang Ntlhokoa
- 11:30 Practical examples of completed projects – Dr. Shane Murray
- 12:30 Lunch
- 14:00 Real time PCR* - Dr. Aubrey Shoko
- 15:00 Diagnostic Applications - Dr. Nicki Adams

Friday 3 March

- 09:00 Bioinformatics - an introduction to data analysis – James Ross
- 09:45 Practical Bioinformatics - James Ross
- 10:30 Tea
- 11:00 Bioinformatics without a bioinformatician – James Ross
- 13:00 Wrap-up

*Covering assay principles, applications, data QC analysis and troubleshooting.