Save the Date
November 13 to 15, 2019

Bioinformatics for the Biologist

Workshop teaching elementary bioinformatic skills
for the wet–bench biologist

Instructor

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Bioinformatics for the Biologist

Intended Audience

The workshop is designed to provide interested wet-bench biologists with basic skills to perform some bioinformatics tasks. The workshop will cover the broad topics of effective use of databases, sequence alignment, working with NGS sequencing data, RNA-seq transcriptomic analysis, genome assembly, exome sequencing and variant calling. The workshop is aimed at post-graduate students and post-doctoral fellows. Students who have or who will soon have data sets that require the analyses mentioned are especially encouraged to attend.

Registration

Registration Deadline: 25 October, 2019, at 17h00 SAST

Online registration Form

Cost

Free, but places are limited.

Venue

Stellenbosch University,
AI Perold Building, room 2005,
Stellenbosch

Workshop Schedule

Day 1, 13th November	
Time	**Topic / Activity**
9:00-11:00	Introduction
11:00-11:30	Coffee
11:30-13:30	Biological databases
13:30-14:30	Lunch
14:30-16:30	Sequence analysis Database searching (BLAST)

Day 2, 14th November	
Time	**Topic / Activity**
9:00-11:00	Multiple alignment Phylogenetic tree building
11:00-11:30	Coffee
11:30-13:30	NGS, Read quality control Read mapping Sequence assembly
13:30-14:30	Lunch
14:30-16:30	RNA-seq

Workshop Schedule, continued

Day 3, 15th November	
Time	**Topic / Activity**
9:00-11:00	RNA-seq (continued)
11:00-11:30	Coffee
11:30-13:30	Exome sequencing and variant calling
13:30-14:30	Lunch
14:30-16:30	Exome sequencing and variant calling (continued)
16:30-17:00	Conclusion

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