Bioinformatics Approaches for Next Generation Sequencing Analysis

On 30th November - 5th December, 2015 CEBIB Lecturer and students attended a "Bioinformatics approaches for Next Generation Sequencing (NGS)" course hosted at the International Centre of Insect Physiology and Ecology (ICIPE). The course was organized by ICIPE and TReND (Teaching and Research in Natural Sciences for Development in Africa) volunteers and comprised of participants from 45 universities across Africa. NGS analysis topics including de novo genome and transcriptome assembly, ChIP-seq and RNA-seq, rare variant calling and population genetics were taught. Other topics included introduction to R statistical programming language and software development concepts such as databases and version control. The main focus was on the use of freely available data and open source technologies, and encouraging open reproducible research. More information on the annual short course is available at;
http://www.icipe.org/index.php/news/971-bioinformatics-training-workshop-next-generation-sequencing-analysis-nov-30-dec-5-2015-icipe-nairobi-kenya.html