SAVITRIBAI PHULE PUNE UNIVERSITY
DEPARTMENT OF BOTANY

strandngs
Streamlining NGS Data Management & Analysis

Next Gen Sequencing Data Analysis Seminar

End To End NGS Data Analysis

Aishwarya Narayanan

About Speaker:
Aishwarya is a Senior Application Scientist in the Strand NGS team and has been associated with Strand for the past 7 years. Prior to her work in NGS, she was a member of the GeneSpring team, a software product for microarray and MPP data analysis.

Abstract
With sequencing costs becoming more and more affordable day by day, NGS is routinely being used for a wide range of research areas like epigenetics, gene expression/regulation, cancer genetics, etc. Strand NGS is an integrated software platform which supports functional analysis of diverse experiment types such as DNA-Seq, RNA-Seq, ChIP-Seq, Small RNA-Seq, etc to uncover deeper biological insights. In this talk, analysis steps such as alignment, data QC, variant calling, CNV analysis, differential expression, pathway analysis, etc will be discussed. Further, emphasis will be given on when these steps need to be employed and how parameter selection impacts the end results. The talk will also look at the importance of visualizations in validating the results.

Date: 27 July 2016
Time: 2:30 PM
Venue: Department of Botany, Savitribai Phule Pune University

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