



# DBT - Sponsored Workshop on "Brucella Genomics"

08 - 12 July, 2013

Department of Genetics, School of Biological Sciences  
Madurai Kamaraj University, Madurai - 625021



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## Objectives

*Brucella* spp are primarily passed among animals and they cause disease in many different vertebrates including humans. Major objective of this course is to understand the patho-physiology of *Brucellosis* using genomics approach. This course is aiming to give a detailed perspective on the existing *Brucella* genomic data. A brief introduction on comparative genomic tools like BLAST, MuMmer, Mauve, Genomic BLAST will be given to the participants. The course will cover the 'Hands on' training on the sequencing of the DNA samples received from collaborating research laboratories using Ion Torrent PGM. Protocols to acquire the raw sequence reads through Torrent Suite™ will be taught in detail. Further the participants will be trained to create *reference* mapping and *de novo* assembly of the reads using the relevant software's like MIRA in the linux platform. The created contigs will be further demonstrated for the generation of super contigs and gap-filling protocols.

## Nature of the Course

The course will consist of expert lectures and hands-on practical training in various applications of comparative genomics in *Brucella* genomics. The training will be techniques oriented and 80% of the time will be given for the practical sessions and the participants will be allowed to carry out the laboratory exercises individually.

## Mode of selection

Schedule of the training program will be intimated to the participating laboratories through post and advertised in [www.dbtbrucellosis.in](http://www.dbtbrucellosis.in). The participants for the training program will be selected on basis of the Nomination from the Principal Investigators of DBT-Network Project on Brucellosis. The Nomination form should be sent to the Course Director on or before 15<sup>th</sup> June, 2013.

## Course content

The laboratory manual will be made available to the participants at the beginning of the training program. The manual will consists of detailed protocols for laboratory exercises. All materials such as computers, Chips, consumables, glass wares, enzymes, fine chemicals, etc., needed for the laboratory exercises will be provided.

## TA/DA

Local Transport, Accommodation and food will be provided for the participants during the workshop. However, no TA/DA will be provided.

For More Details Visit [www.dbtbrucellosis.in](http://www.dbtbrucellosis.in)