

## **DBT-funded bioinformatics facility generates many potential drug targets**

New Delhi, Sep 04: The bioinformatics centre at Dr. B.R. Ambedkar Center for Biomedical Research (ACBR), New Delhi, which is funded by the Department Of Biotechnology, has effectively used computational drug design and bioinformatics for guiding the design of novel potential drug molecules, identifying drug targets and for assisting bench experiments, in addition to the analysis of the large amount of data available in the public domain to derive novel pathways through network analysis.



The work at the centre has provided many promising leads and potential novel drug targets, especially combinatorial therapy combining classical cell division regulators and epigenetic drugs. Under the infectious disease area, the Bioinformatics Facility (BIF) has been utilized for in depth understanding of drug resistance in *Neisseria gonorrhoeae*. The BIF has also been utilized for genome mining for novel epigenetic regulatory tool-kit of the human genome. This has yielded both novel cis-elements and also novel functions for known epigenetic modifiers.

Patent Granted: A new Fluorescent Beacon probe based diagnostic Tool/Kit for molecular detection of Translocation t(9;22)/ BCR – ABL1 in Leukemic patients and Method of Working for the same patent No: 327607 (application number IN 1569/DEL/2013 Dated24/5/13).

### **Societal impact**

- Responsible and transparent dissemination of research findings and implementation in clinical practice and health-related policymaking.
- Development of Diagnostic kits for sexually transmitted diseases at affordable prices.

- Increased community awareness about diseases by delivering lectures at health conferences and symposia.
- Setting of future research priorities through finding newer ways to combat diseases, identifying targets, studying genetic links with human diseases etc.

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