Bioinformatics Centre (BIC)

(www.bicjbtdrc-mgims.in)

Establishment of Bioinformatics Centre (BIC) at Jamnalal Bajaj Tropical Disease Research Centre (JBTDRC), Mahatma Gandhi Institute of Medical Sciences, Sevagram was approved in May 1999 by Department of Biotechnology, Ministry of Science & Technology, Government of India, New Delhi as a part of Biotechnology Information System Network (BTISNet) to establish link amongst Scientists in organizations involved in Biotechnology related research activities. JBTDRC and Department of Biochemistry are actively involved in Immunodiagnostics and vaccine research and have been conducting annual National level training courses and workshops in Infectious disease diagnostics and Bioinformatics respectively. The Centre also provides training and research facilities to the students doing Masters in Bioinformatics / Biotechnology for doing short term projects.

Medical/Health Informatics at Bioinformatics Centre

Medical Informatics is the art and science of using patient Information for analysis and decision making for the better patient care and management with the help of computer science, IT etc. Need for the computerization in the medical field is growing each day.

The centre has developed Database software on patients' information on rural/urban health problems in particular Filaria & Tuberculosis. A database software has also developed for JBTDR Res Pub for research publications (Full paper) from Department of Biochemistry & JBTDRC. Further databases have been developed on mycobacterial proteases (Mycoprotease-DB), M.Tb Proteome comparison (MTb – PCDB) of five clinical strains sequenced so far and HPV Proteome database.

Centre has launched a web portal MGIMS-JBTDRC **Arogya,** presents progress being made in Holistic Healthcare and Research in Lifestyle diseases by Indian Institutions for better awareness, interaction and advancement in holistic therapy and research. This web portal basically provides healthcare information at reputed Holistic Healthcare and Research Centers in India on one platform for benefit of medical practitioners and general public.

Centre is maintaining a web portal *MGIMS-JBTDRC Health Update* – Web for current awareness on Emerging Infectious Diseases and Lifestyle Health Problems (http://www.jbtdrc.org/Health-Update/) which will be of interest to medical & paramedical professionals and public in general.

SEVAMED - Quarterly Update on Infectious Disease Research and Traditional Medicine has entered 15th year of its publication supported by DBT. In addition to giving selected references and abstracts in hard copy 'SEVAMED' is now available online (http://www.bicjbtdrc-mgims.in/sevamed/) with complete bibliography and with link to abstracts for easy retrieval with interactive web pages which will be beneficial to the researchers, medical practitioners and teachers.

FACILITIES & ACTIVITIES:

Bioinformatics Centre has acquired Servers, Workstations, Desktops, Laptops, LCD projectors, Copiers/printers, Scanner, Wireless Routers etc. and Scientific Software packages & BIC software etc.

Bioinformatics Centre, Lab-1 (Immunology) & Lab-2 (molecular biology) and Central Library are networked through LAN.

The Institute has got installed 1 Gbps Internet connectivity and campus is Wi-Fi with high bandwidth.

Proceedings of National Symposium on Medical Informatics & C.M.E. on Hospital Information System (September 6-7, 2004) published from the Centre covers the interesting lectures & sessions conducted by Eminent Experts / Faculty drawn from different National Centres and also includes the interesting topics of the previous workshops held at this Centre and some important guest articles of interest in health informatics by various experts from India and abroad.

ONLINE HEALTH INFORMATICS CERTIFICATION (OHIC):

A curricular certification course commencing from July 2010, designed of six months duration at Bioinformatics Centre, MGIMS, Sevagram to deliver basic concepts in Health Informatics in the form of online training. This course is for Healthcare personnel and interested graduates in Science, Business Administration & Information Technology and is concerned with the core concepts on which much of the specialized IT functions of the healthcare sectors are based (http://www.bicjbtdrc-mgims.in/OHIC/). So far 33 students from UK, Uganda, Mauritius, Ethiopia, Saudi Arabia and from different states of India have registered for the course.