



## Bioinformatics Centre (BIC)

Establishment of Bioinformatics Centre (BIC) at Jamnalal Bajaj Tropical Disease Research Centre (JBTDRC), Mahatma Gandhi Institute of Medical Sciences, Sevagram was approved in March 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. Centre also extended training and research facilities to the students doing Masters in Bioinformatics / Biotechnology for doing short term projects.

### Objectives :

(1) To be a part of National Bioinformation System Network and Dissemination of Biomedical information to researchers in Medical Colleges and Research institutes in Central India. (2) Publication of 'SEVAMED'- a quarterly update on Infectious Disease Research and Traditional Medicine. (3) To develop Database software on diagnosis and management of certain diseases in a tertiary Hospital setting. (4) To promote Medical Informatics and Telemedicine at MGIMS. (4) To provide In-service Training and organize National workshops on Medical / Health Care Informatics for medical Teachers, young Scientists and PG / Ph.D. students.

### Facilities & Activities :

#### Infrastructure :

This Centre possesses Server-3 (IBM - Xenon, Compaq Proliant 3300 PIII -1, Zenith-1), PCs-14, LAPTOP PC-2, Printers-6 (Laser (2), Inkjet (2), Dot-matrix (2)), Photoprinter-1 (Canon S520), Other equipments available include HUB, Desktop LCD projector-2, Scanner, CD writer, Internet sharer, Zip drive, Pen Drive (256 MB), Modem -2, Fax machine, Photocopier-Modi Xerox Work Centre (model XD 155 df), Canon digital copier (model NP 6012), Canon B155 plain paper fax machine, Canon iR1600 Copier/Printer, Kodak Digital Camera, Web camera -2, Canon 3000F Scanner, HP Precisionscan LT Scanner-1, UPS 1 KVA - 4, UPS 625 VA-9, Spiral binder different accessories etc. Bioinformatics Centre, Lab-1 (Immunology) & Lab-2 (Molecular Biology) and Central Library are networked through LAN.



Centre has got installed 512 kbps Leased line from BSNL. This has improved the connectivity & speed and would help to strengthen the centre further.

**a) Scientific Software Packages :**

Windows NT with service pack 6, Windows 98, 2000, XP; Microsoft Windows NT 4.0 Service Pack 4, Developer Training Service pack 3, MS office 97/ 2000, Adobe PageMaker 6.5, Wings 2000 (Accounting software), Microsoft Visual Studio 6.0 Professional Edition, with MSDN Library are available with us.

**Publications :**

Centre launched **SEVAMED** - a Quarterly Update on Infectious Disease Research And Traditional Medicine' a current awareness Journal being published by our Centre since inception has entered 8th year of its publication. This effort of disseminating information in the form of bibliographic journal with selected abstracts has been useful to the medical teachers, researchers and practicing doctors updated with latest information for furtherance of productive research and better health care.

**Proceedings of National Symposium on Medical Informatics & C.M.E. on Hospital Information System** (September 6-7, 2004) has been published covering 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.

**Database Software :**

Database Software **FilaDB, TbDB, PsySoft, ObSoft, GynSoft**, have been developed for recording & retrieval of Data on Filariasis, Tuberculosis, Psychiatry, Obstetrics and Gynecology patients respectively. We are planning to develop same kind of softwares for other health problems. SEVAMED bibliography database on Infectious Disease Research and Traditional Medicine for the year 2001 - 2005. This database is available for quick offline accessing of the bibliography. Centre has also developed a software **CaDb** for cancer patients registry being operated by Department of Pathology of MGIMS and **JBTDRC-Res-Pub** for Research publications (full papers) from Department of Biochemistry & JBTDRC (1970 - 2006).

**National level training courses / Workshops organized at BIC :**

Date	Title of the Workshop / Training Course
1. April 8, 2000	Introduction to computer Basics & Access to Biomedical Information



2. November 24-26, 2000 Bioinformatics & Medical Research
3. March 19-April 13, 2001 In-house computer training course
4. November 26-28, 2001 Medical Informatics, Research & Communication
5. September 23-25, 2002 Medical Informatics & Biomedical Communication
6. December 10-12, 2002. CMR-WHO Workshop on 'Storage and Retrieval of Information'
7. Feb. 24 - March 14, 2003 In-house computer training for the staff of Trauma Centre
8. Sept. 29 - Oct. 1, 2003 Medical Informatics & Biomedical Communication
9. May 3rd - Oct. 9th, 2004 In-house computer training course for Hospital Information System
10. September 6-7, 2004 National Symposium on Medical Informatics & CME On Hospital Information System
11. December 9-10, 2005 National Seminar on Biomedical Informatics

Faculty for these National Workshops / Symposium was drawn from DBT, ICMR, BICs- New Delhi, Pondicherry, Pune, Ludhiana; NIC, Delhi; BHU, Varanasi; AVV, Coimbatore; BCRCE, Durgapur, AIIMS, New Delhi; KIMS, Bangalore; GMC, Chandigarh; SMIMS, Sikkim; NEERI, Nagpur; IIT, Kharagpur; MGRMC, Chennai; Apollo, Hyderabad; Manipal Hospital and participants from different states namely Maharashtra, Tamil Nadu, M.P., Gujarat, Kerala, Andhra Pradesh, Karnataka, Haryana, Delhi, Uttar Pradesh, W. Bengal, Orissa & U. K. attended the events.

**Main Thrust Area:**

Medical / Healthcare Informatics - Development of Software and Databases on medical Information on rural/urban health problems for better Diagnosis, Management, Prognosis and Development of Evidence Based Medicine

**Website:**

Centre regularly updates its website [www.jbt-drc.org](http://www.jbt-drc.org) & [www.mindbodyhealth.org](http://www.mindbodyhealth.org) with special inputs on SEVAMED publication & Research along with the other activities of the Bioinformatics Centre and JB Tropical Disease Research Centre, MGIMS, Sevagram