

Training courses offered

We conduct training programmes for 'Advanced clinical applications of flowcytometry'.

Major thrust areas of research and achievements

In India we are the first center to offer comprehensive diagnostic work-up for patients with PID. This is also the only center offering prenatal diagnosis of certain PID by flowcytometry analysis. We have also established molecular diagnostic facilities for some common PIDs like LAD-I, HIGM and some SCIDs. Our thrust areas of research include phenotypic and molecular characterization of Primary Immunodeficiency Disorders. We have identified and characterized many rare PIDs. We have diagnosed a case of autoimmune lymphoproliferative disorder (ALPS) with homozygous FASL deficiency, which is the first case in world literature. We have also performed molecular characterization of

LAD-I, HIGM, SCID and found many novel mutations in these patients.

We have developed two new assays for comprehensive evaluation of NK cell function (NK cell cytotoxicity and NK cell Granule release Assay) using whole blood for the first time. These assays are not only easy to perform but also require very less volume of sample and save significant amount of processing time and reagents. These assay have been used for evaluation of patients with Hemophagocytic Lymphohistiocytosis (HLH). This is the only institute in India which is offering facilities for diagnosis of Familial HLH.

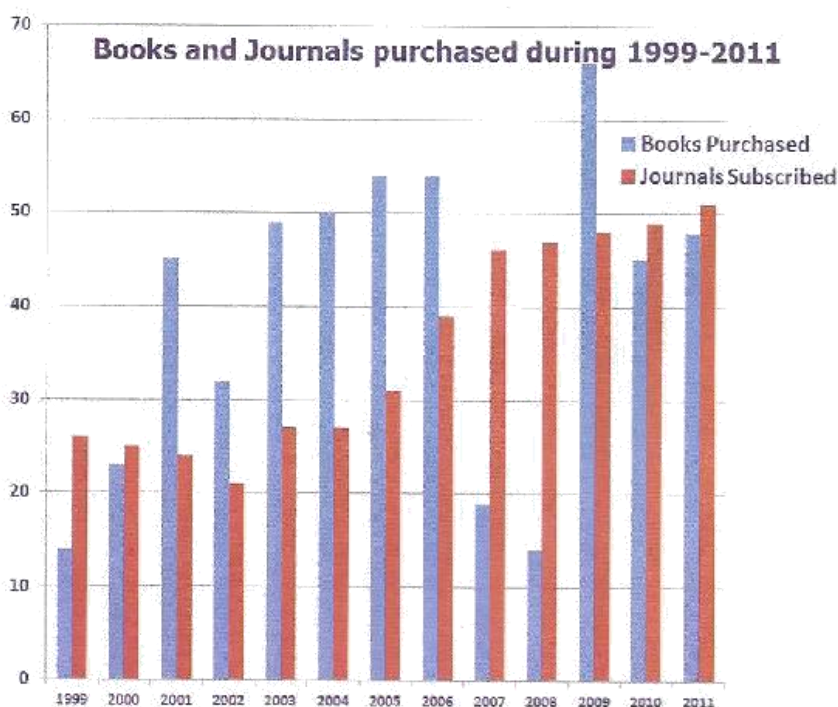
We are the first center in India to start FLAER based PNH diagnosis. We are also working on biology of leukemic stem cells in patients of acute myeloid leukemia (AML) especially immunophenotypic characteristics, cell signaling and molecular abnormalities.

LIBRARY & INFORMATION SCIENCE

Background

The NIIH library plays a vital role in the collection, development and dissemination of scientific and technical information to meet the present and future needs of the Institute. The Library was established in the year 1988 and thereafter expanded its collection of print media and now has a collection of 1300 books and 1600 bound volumes

especially on specific topics of Medicine like Hematology and Immunohaematology. It has been classified under Category II according to 1st modernization plan of ICMR libraries in 1999. Presently it is classified under Category III under 2nd Modernization Plan of ICMR Institutes Libraries in 2010. It has other print media like reports, technical reports, reprints, theses etc.



NIIH library services have been upgraded by incorporating modern information technology (IT) like Computer, communication (e-mail, internet) fax, scanners, database access (online/offline), CD-ROM's, DVD and Pen drive facilities, multi-media, audio-visual, multi-digital color Xerox facilities, e-resources (consortia, Journals/books). NIIH library has been automated by using Graphical Library Automated System (GLAS) software with additional Web OPAC features. Library functions like cataloguing, serials, acquisition and circulation are being carried out. Implementing this software, library functions become more productive and will allow efficient sharing of our library resources with other ICMR networking libraries.

NIIH library has an access to J-Gate Custom Content for Consortia (JCCC@ICMR), J-Gate through Informatics India and NML-ERMED consortia which is a customized intranet solution to maximize the usage of journals of ICMR Institutes and National Medical Library of India. It also has an access to ICMR e-journals consortia and the Cochrane Library.

Library Collections from 1988-2011

Books	1300
Journals Subscribed	Intl-39 Nat-20
E-Journals Subscribed	Intl -28, Nat- 3
Bound Volumes	1600
Thesis (M.Sc & Ph.D)	136
Reprints	3087
Annual Reports	140
NIIH Publications	12 (Books/Tech Manuals)
CD-ROM/DVD	652
Video Cassette's	17
Audio Cassette's	22

Library Services

a. Library catalogue and its link to NIIH Website. (www.niih.org.in)

- b. Library Newsletters published from 2002 to till date.
- c. Inter-library loan facilities to Readers.
- d. Reprographic services to scientists, scholars, students and staff.
- e. Current awareness services to reader.
- f. Selective dissemination of Information to readers.
- g. Collection of Newspaper clipping for important news.
- h. Comb and spiral binding facilities for readers.
- i. Reprint request facilities to researchers.
- j. GLAS (OPAC) online library resources searching catalogue facility to readers.
- k. Online searching facilities with high speed internet connections to readers.
- l. Wi-Fi connection facility for library and seminar hall for internet & email.
- m. Audio-Visual facilities like LCD projector, slide projector, overhead projector with laptops, cord-less conference system with high watt speakers, TV and 42" LCD-TV for projection, video cassette player, CD-DVD record player, audio players, automatic motorized screen for display, and other multi-media instruments.

List of published National and International articles of all the Departments of National Institute of Immunohaematology ICMR, Mumbai from 2000-2011 (Ref. Data taken from Annual Reports)

