

database. Each of the microarray slide can be used for three different test samples and would be useful for carrier testing for common mutations and prenatal diagnosis. It is simpler and more cost effective than genome sequencing and would particularly useful in laboratories with limited technical capabilities.

[Quoted from Chan K. et al. *Thromb Haemostasis*, 94(4), 872-8]

## **2. Application of maternal plasma DNA analysis for non invasive prenatal diagnosis of Hb -E- beta thalassemia.**

To establish non-invasive prenatal diagnosis of common beta thalassemia in South East Asia we have evaluated the possibility of identifying the 3 most common beta thalassemia genes [beta (E), beta (17 A T) and beta [41/42 (-CTCC)] by analysis of fetal DNA in maternal plasma using combined conventional Polymerase chain reaction (PCR) and real time qualitative PCR. Maternal plasma was obtained from peripheral blood of Thai pregnant women collected during the first and second trimesters of gestation. DNA was prepared from 200 µl plasma using a Qia MP blood minikit. Identifications of the beta (E), beta [(41/42 (-CTTT)], and beta (17A-T) in plasma DNA were carried out using semi nested (for beta (E)) and nested for beta (41/42) and beta (17) real time allele specific PCR methodologies and the results were compared with those obtained on fetal tissue analysis with routine invasive procedure. Twenty - six fetal beta (E) genes were correctly identified by maternal plasma DNA analysis of 39 pregnant women investigated. The beta (41/42) and beta (17) mutations were detectable in 6 of 12 and 4 of 9 maternal plasma specimens, respectively, which were in concordance with the results obtained by routine invasive procedure. The noninvasive prenatal diagnosis methods

developed should potentially prove useful for detection of paternally inherited mutation and for providing the exclusion of pregnancies at risk for this common genetic disorder in the region.

[Quoted from Tunqwiwat et al. *Trans Res* 2007;150(5): 319 25]

## **IIH LIBRARY NEWS LETTER - 2007**

### **1. General Information**

IIH Library has published books, handouts on account of Institutes Golden Jubilee celebrations. ICMR had renewed access for J-Gate Custom Content for Consortia (JCCC) for the year 2007 through Informatics India a customized intranet solution to maximize the usage of journals of ICMR Institutes. ICMR has subscribed for the e-journal consortia to five core bio-medical journals like Lancet, BMJ, Nature, Science, NEJM for all ICMR institutes library.

### **2. Additional Services**

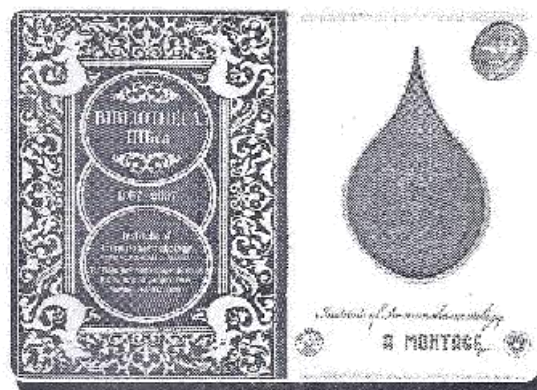
- a. Library has purchased a new Spiral Binding machine for the Book binding work.
- c. Pen drives of 2GB and 512MB memory was purchased for backup and storage of library data.
- d. New DVD writer was purchased for the library.

### **3. News**

- a. Golden jubilee celebrations i.e. International Conference on Emerging Trends in Haematology and Immunohaematology from 31<sup>st</sup> January to 3<sup>rd</sup> February, 2007 was conducted at Hotel J.W.Marriott, Juhu, Mumbai.

#### 4. Publications

- a. Bibliotheca IHica 1957-2007, Padwal Vijay G; Editor & Compiler ; Published by Institute of Immunohaematology (ICMR); 2007.
- b. Designing and Compilation of Selected Full text articles "Golden Collection of Institute of Immunohaematology: commemorative volume 2007", by Padwal VG, Nair SB, Kulkarni BP, Ghavnalkar R; published by Institute of Immunohaematology, (ICMR); 2007.
- c. Designing and compilation of handouts "Institute of Immunohaematology : a montage" by Padwal VG, Kulkarni BP; published by Institute of Immunohaematology (ICMR); 2007.
- d. Compilation of Annual Report of the Institute for the year 2006-2007 was in progress.



#### 5. Seminars/Trainings/Meetings Attended

- a. Mr. Vijay Padwal, LIA, attended a 2<sup>nd</sup> Digital library annual lecture on "Traversing the Biomedic-IPR Weave.... Addressing knotty challenges and loose ends." by Prof. Prabuddha Ganguli, CEO Vission IPR, Mumbai at Choksi Auditorium, Tata Memorial Hospital, Parel, Mumbai.



1. Dr. K. Ghosh, Director, attended the stem cell meeting at ICMR, New Delhi on 9<sup>th</sup> Jan, 2007.
2. Dr. Roshan Colah, Deputy Director, invited to give a talk on "Clinical and laboratory diagnosis of haemoglobinopathies at the APICON conference CME at BJ Wadia children Hospital, Mumbai on 9<sup>th</sup> Jan 2007.
3. Golden jubilee celebration of the Institute and International conference on "Emerging trends in haematology and Immunohaematology" was organized at J.W. Marriott, Mumbai from 31<sup>st</sup> Jan to 3<sup>rd</sup> Feb 2007.

#### Some Recent Additions

(April 2006-March 2007)

Books	-	45
Journals	-	4
Bound Volumes	-	---
CD-ROM/DVD	-	34