

## **BIODATA**

### **Dr Kunal Sehgal, MD**

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**Current position: Director, Sehgal Path Lab  
003/103, Yashodhan Apartments, JP Road, 4 Bungalows, Andheri West,  
Mumbai -400053**

**Previously - Consultant, Hematopathology, Department of Lab Medicine,  
P.D.Hinduja National Hospital & Medical Research Centre, Mumbai – Jan 2011 to  
July 2015**

### **QUALIFICATIONS**

- **M.D. (Pathology)** from Postgraduate Institute of Medical Education and Research, Chandigarh, India. Passed out in December 2007
- **M.B.B.S.** from Seth G.S. Medical College and KEM Hospital Parel, Mumbai, India. Passed out in December 2003.
- **Certified NABL Assessor for ISO15189:2012**  
NABL Assessor Course for ISO 15189:2012 held from 23<sup>rd</sup>-27<sup>th</sup> June 2014, ACTREC, TMC, Navi Mumbai.

**Areas Of Interest:** Flow Cytometry - Instrument Setup and Standardisation

Flow Cytometry based, Minimal Residual Disease Detection

High sensitivity PNH assay using FLAER

Research Parameters on CBC analysers

Quality Control and lab Accreditation

**Work Experience as Consultant, Hematopathology, Department of Lab Medicine, P.D.Hinduja National Hospital & Medical Research Centre, Mumbai – Jan 2011 to July 2015**

- In charge of all routine and specialized assays at the hematology laboratory
- Initiation and Completion of NABL accreditation for the Hematology laboratory
- Continuation of the CAP accreditation and EQAS programs
- Started the first of its kind Centre of Excellence for clinical flow cytometry including a one year focused flow cytometry fellowship program
- Training of inhouse residents and fellows
- Guide for DNB Medicine Thesis projects
- Coordinator from Hinduja Hospital for joining the Health Care consortium at IIT-Bombay
- Development of newer assays like PNH by FLAER, 8 colour Leukemia and Lymphoma panels by flow cytometry, Minimal Residual Disease Detection, IPF and Ret He and coordinating various research and clinical projects in the laboratory

**i) Postgraduate career**

**a. Fellowship and Senior residency**

Hematopathology laboratory, Department of Pathology, Tata Memorial Centre, Parel, Mumbai, India

Fellowship- August 2010 to December 2010

Senior Residency- March 2008 to July 2009, December 2009 to July 2010.

Academic activity as Fellow and Senior resident:

**i) Diagnostics-**

- Reporting of peripheral blood smears and Bone marrow aspirates
- Flow cytometric Immunophenotyping of Hematolymphoid neoplasms – Processing, acquisition and analysis.
- Routine CBC and Coagulation work up.
- Routine processing and analysis of PCR results in the molecular pathology lab with major emphasis on bcr-abl and common leukemic translocations like t(15,17), t(8,21),etc.

## **ii) Teaching –**

Training of M.D. pathology residents, D.M medical oncology residents, technical and nursing staff

## **iii) Projects-**

- Development and Standardisation of Six colour Antibody panels for Immunophenotyping of Leukemias and Lymphomas.
- MRD Lite for B Cell ALL – Standardisation and setup as per St. Jude’s Protocol
- Actively involved in the NABL accreditation of the Hematopathology lab at TMC
- Active member of the Inter Laboratory Comparison Program (ILCP) as part of the External Quality Assurance Scheme (EQAS) between different Flowcytometric laboratories all over India. This is conducted by Hematopathology laboratory, TMC.

## **b. UICC ICRET Research Fellowships – 2009 and 2014**

### **i) Flowcytometry Laboratory, John Hopkins Hospital, Baltimore, USA, August – November 2009**

Awarded the International Union Against Cancer (UICC)-International Cancer Technology Transfer Fellowship (ICRETT) at John Hopkins Hospital, Baltimore USA.

**Project-** Development and standardization of eight colour flow cytometric antibody panels for immunophenotyping of AMLs and evaluating potential MRD markers for AML.

**Guide:** Michael J. Borowitz, M.D., Ph.D.

Activity as a Research Fellow:

- Training in standardisation of multiparametric immunophenotyping of leukemias and lymphomas
- Minimal Residual Disease analysis for B cell ALL
- T cell subset analysis
- PNH diagnosis using FLAER
- CD34 Stem cell counts

ii) **Flowcytometry Laboratory, Seattle Cancer Care Alliance, Seattle, USA**  
**August – October 2014**

Awarded the International Union Against Cancer (UICC)-International Cancer Technology Transfer Fellowship (ICRETT) at Seattle Cancer Care Alliance, Seattle, USA.

**Project-** Erythroid Series: Maturational patterns by Multiparameteric Immunophenotyping

**Guide:** DR Brent L Wood, M.D., Ph.D.

Activity as a Research Fellow:

- Review of literature along with standardization and development of maturation patterns of erythroid series cells by multiparametric immunophenotyping
- Data Analysis for Minimal Residual Disease analysis for B cell ALL , T cell ALL and AML
- Data Analysis and Interpretation of cases of Myelodysplastic Syndromnes

**c. Junior residency**

Department of Pathology, Post Graduate Institute of Medical Education and Research (PGIMER), Chandigarh, India. Jan 2005 – Dec 2007.

Awarded **Kataria Gold Medal for the best overall student of PGIMER 2008**. The award was presented by the Prime Minister of India in the month of November 2009.

Awarded **Silver Medal** (first order) in recognition of merit during the period of studies for M.D. Pathology course at PGIMER.

- During the degree period, completed 10 months posting in Hematopathology, 10 months posting in Histopathology, 6 months posting in Cytology, 5 months in Autopsy, 5 months in Immunopathology.
- Presented seminars and lectures, cases in biopsy rounds and gynaecology tumour clinics and journal clubs on various topics allotted during the degree period.
- Presented 12 Clinico-pathological cases at the CPC meetings in the institute.
- During autopsy postings, performed 200 non-medico legal autopsies.
- Received training in performing adult and pediatric bone marrows, FNAC procedure, adult and pediatric autopsies and surgical specimen grossing.

- Completed a course in Research Methodology & Biostatistics from PGIMER, Chandigarh.

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ii.) Undergraduate career

**Seth G.S. Medical College and KEM Hospital Parel, Mumbai, India.**

**1998- 2003**

**First year MBBS-** Distinctions in Anatomy and Biochemistry

**Second year MBBS-** Distinctions in Pharmacology and Microbiology

**Third year MBBS (Part 1)** - stood **Second** amongst a batch of 180 students with distinctions in the subject of Preventive and social medicine (PSM) and ENT.

**Third year MBBS (Part 2)** - Distinction in the subject of Paediatrics (Highest in the batch)

**USMLE** (United States Medical League Examination) Step 1, Sept. 2004- **99 percentile**

**AIPGME** (All India Post Graduate Medical Entrance), Jan 2005 - **Rank 33**

#### **4. RESEARCH**

- Immunophenotypic profiling of normal CD20 positive T cells in normal peripheral blood and bone marrow. [Completed]
- Standardisation of flow cytometric Minimal Residual Disease assay (based on COG protocol) for B- Acute Lymphoblastic Leukemia [Completed]
- Standardisation of Six colour Flowcytometry assay for the diagnosis and monitoring of Paroxysmal Nocturnal Hemoglobinuria using FLAER, as per 2010 International Guidelines [Completed]
- Rapid malaria Antigen Test- Which kit is more reliable? [Completed]
- Successfully completed a **research project (thesis)** entitled: “Expression of Ki-67 and apoptosis regulating proteins Bcl-2 and Bax in follicular adenomas and minimally invasive & widely invasive follicular carcinomas of the thyroid” under the able guidance of Dr Uma Nahar Saikia, Assistant Professor, Department Of Histopathology, PGIMER, Chandigarh, India.

#### **Publications**

Clinicopathological Analysis and Multipronged Quantitative Proteomics Reveal Oxidative Stress and Cytoskeletal Proteins as Possible Markers for Severe Vivax Malaria.

Ray S<sup>1</sup>, Patel SK<sup>1</sup>, Venkatesh A<sup>1</sup>, Bhave A<sup>1</sup>, Kumar V<sup>1</sup>, Singh V<sup>1</sup>, Chatterjee G<sup>2</sup>, Shah VG<sup>1,3</sup>, Sharma S<sup>1</sup>, Renu D<sup>4</sup>, Nafis N<sup>1</sup>, Gandhe P<sup>5</sup>, Gogtay N<sup>5</sup>, Thatte U<sup>5</sup>, Sehgal K<sup>6</sup>, Verma S<sup>7</sup>, Karak A<sup>7</sup>, Khanra D<sup>7</sup>, Talukdar A<sup>7</sup>, Kochar SK<sup>8</sup>, S B V<sup>8</sup>, Kochar DK<sup>8,9</sup>, Rojh D<sup>8</sup>, Varma SG<sup>2</sup>, Gandhi MN<sup>10</sup>, Srikanth R<sup>11</sup>, Patankar S<sup>1</sup>, Srivastava S<sup>1</sup>.  
Sci Rep. 2016 Apr 19;6:24557.

**Sehgal Index** - A new index and its comparison with other CBC-Based indices for screening of Beta Thalassemia trait (BTT) in a tertiary care hospital.

Sehgal K, Mansukhani P, Dadu T, Jacob B, Irani M, Khodaiji S.  
Indian J Pathol Microbiol. 2015 Jul-Sep;58(3):310-5

Unusual immunophenotype of T-cell large granular lymphocytic leukemia: report of two cases.

Rabade N, Mansukhani D, Khodaiji S, Padte B, Bhave A, Tembhare P, Subramanian PG, Sehgal K.  
Indian J Pathol Microbiol. 2015 Jan-Mar;58(1):108-12.

Evaluation of the Immature Platelet Fraction as an indicator of platelet recovery in dengue patients.

T. Dadu, K. Sehgal, M. Joshi, S. Khodaiji  
Int. Jnl. Lab. Hem. Early Online View. April 2014

Reference range evaluation of complete blood count parameters with emphasis on newer research parameters on the complete blood count analyzer Sysmex XE-2100.

Sehgal KK, Tina D, Choksey U, Dalal RJ, Shanaz KJ.  
Indian J Pathol Microbiol. 2013 Apr-Jun;56(2):120-4.

Comparison of platelet counts by sysmex XE 2100 and LH-750 with the international flow reference method in thrombocytopenic patients.

Dadu T, Sehgal K, Shaikh A, Khodaiji S.  
Indian J Pathol Microbiol. 2013 Apr-Jun;56(2):114-9.

Parvovirus B19 presenting with persistent pancytopenia in a patient of T-ALL post induction chemotherapy diagnosed on bone marrow examination.

Gadage VS, Viswanathan S, Kunal S, Subramanian PG, Gujral S  
Indian J Pathol Microbiol. 2011 Jul-Sep ;54(3):603-5.

Leukemic phase of anaplastic lymphoma kinase positive, anaplastic large cell lymphoma.

Gadage VS, Subramanian PG, Galani KS, Sehgal KK, Johari SP, Ghogale VS, Badrinath Y, Ashok K, Gujral S  
Indian J Pathol Microbiol. 2011 Jul-Sep ;54(3):599-602.

Immunophenotypic profile of plasma cell leukemia: a retrospective study in a reference cancer center in India and review of literature.

Tembhare PR, Subramanian PG, Sehgal K, Yajamanam B, Kumar A, Gadage V, Inamdar N, Gujral S  
Indian J Pathol Microbiol. 2011 Apr-Jun ;54(2):294-8.

Comparison of platelet counts by CellDyn Sapphire (Abbot Diagnostics), LH750 (Beckman Coulter), ReaPanThrombo immunoplatelet method (ReaMetrix), and the international flow reference method, in thrombocytopenic blood samples.

Sehgal K, Badrinath Y, Tembhare P, Subramanian PG, Talole S, Kumar A, Gadage V, Mahadik S, Ghogale S, Gujral S

Cytometry B Clin Cytom. 2010 Jul;78(4):279-85.

Megakaryocytic emperipolesis: a histological finding in myelodysplastic syndrome.

Sable MN, Sehgal K, Gadage VS, Subramanian PG, Gujral S

Indian J Pathol Microbiol. 2009 Oct-Dec ;52(4):599-600.

Hypergranular precursor B-cell acute lymphoblastic leukemia in a 16-year-old boy

Tembhare PR, Subramanian PG, Sehgal K, Yajamanam B, Kumar A, Gujral S

Indian J Pathol Microbiol. 2009 Jul-Sep ;52(3):421-3.

Exflagellated microgametes of Plasmodium vivax in human peripheral blood: a case report and review of the literature.

Tembhare P, Shirke S, Subramanian PG, Sehgal K, Gujral S

Indian J Pathol Microbiol. 2009 Apr-Jun ;52(2):252-4.

Intracytoplasmic antigen study by flow cytometry in hematolymphoid neoplasm.

Gujral S, Tembhare P, Badrinath Y, Subramanian PG, Kumar A, Sehgal K

Indian J Pathol Microbiol. 2009 Apr-Jun ;52(2):135-44.

Squamous metaplasia of the rectum in a case of Hirschprung's disease: a coincidence or an association.

Mahesha V, Sehgal K, Saikia UN, Rao KL

J Clin Pathol. 2006 Aug;59(8):889-90.

Hepatosplenic  $\gamma\delta$ T-Cell Lymphoma Masquerading as T Cell Acute Lymphoblastic Leukemia. Kunal Sehgal, P. G. Subramanian, Prashant Tembhare, Y. Badrinath, Ashok Kumar, S. D. Banavali, B. Arora, Pratibha Amare Kadam, and Sumeet Gujral.

Blood (ASH Annual Meeting Abstracts), Nov 2008; 112: 5310.

### **Workshops and Invited talks**

- TCS WORKSHOP at HYDERBAD, Flow cytometry in understanding development and diagnosis of neoplastic disorders of T- and NK- cells, 3<sup>rd</sup> February 2018
- Invited Faculty, Flowcytometry Workshop and talk on PNH – TCS 2018 meeting, 28 oct-1<sup>st</sup> Nov, AIIMS, New Delhi
- Invited Faculty, Flowcytometry Workshop – PID workshop NIIH, KEM, Mumbai, 5th September 2018

- Invited Faculty - Diagnocon 2018 at KMC Manipal on 25th Feb 2018.
- Invited Faculty, Flowcytometry Workshop – TCS 2017 meeting , Trivandrum
- Invited faculty – Society of Haematology & Transfusion Medicine. (SHTM-Telangana) Hyderabad, workshop on automated CBC analyzers, 22nd July 2017
- Invited faculty – Basic Hematology Course , Tata memorial hospital, Mumbai , July 2017
- Conducted the NABL audit as an assessor for clinical pathology and hematology
- Organiser and Speaker at the 7th Annual TCS India conference at Tata memorial hospital – Mumbai , October 2016
- Invited faculty at the Flow Cytometry: Basic and Clinical Applications workshop held at Mithibai college on 10-11<sup>th</sup> April 2015
- Organiser and speaker at the Flowcytometry workshop on – basic clinical applications in flow cytometry, organized under the aegis of BD-PDHNH COE in flow cytometry on 17-19<sup>th</sup> of March 2015.
- Invited Faculty- topic- Normal NK and T cell subsets at ISHTM 2014 Workshop at Hyderabad, 9<sup>th</sup> November 2014
- Invited Faculty- topic- Standardisation of B-ALL MRD, at the annual TCS-India conference, 25<sup>th</sup>-26<sup>th</sup> October 2014, AIIMS, New Delhi
- Organiser and Convener for Flowcytometry workshop on – Leukemia and lymphoma Case analysis and trouble shooting, organized under the aegis of BD-PDHNH COE in flow cytometry on 11<sup>th</sup> of July 2014.
- Invited Faculty and panelist for Panel discussion on CBC reporting at the First Annual APPI conference on 15<sup>th</sup> June 2014, Mumbai
- Invited Faculty- topic- Basics of flow cytometry at Annual hematology CME, Nair Hospital on 8th March 2014.
- Invited Faculty- topic- Multiparametric flow cytometry – basic principles and applications at a CME on AML held at NKPSIMS institute , Nagpur on 1<sup>st</sup> March 2014.
- Invited Faculty- topic-Quality control in CBC testing , at the Beckman Coulter technician education programme on 26<sup>th</sup> February 2014.
- Co-organiser for Hinduja –MIT-IIT interface meeting on 26<sup>th</sup> January 2014 and also shared and presented ‘ Wish List of Doctors from Hinduja Hospital’
- Invited Faculty- topic-“Three part CBC Analyser Histograms” at a CME for Medical Laboratory Technicians held at Tata Hospital on 23<sup>rd</sup> December 2013.
- Conducted a one day flowcytometry workshop on ‘Case Analysis of leukemias and lymphomas’ on 6<sup>th</sup> November as part of the Annual ISHBT conference
- Presented two papers at the Annual ISHBT conference entitled ‘ Normal Range of novel parameters on Sysmex XE2100’ and a paper on ‘standardisation of PNH assay using FLAER’ and was a panelist for the topic ‘Beyond the ABC of CBC’ from 6<sup>th</sup>-9<sup>th</sup> Nov 2013,at Mumbai.
- Invited Faculty – Topic- ‘Consensus guidelines for 6 colour immunophenotyping of Leukemias and Lymphomas’ at the annual The Cytometry Society – India meeting at Bhubaneswar, 21-22<sup>nd</sup> October 2013.
- Invited Faculty – Topic-‘Standardisation of B-ALL MRD’ at the Indo US



Flowcytometry Clinical Symposium at Medanta Medicity, Gurgaon, 18<sup>th</sup>-19<sup>th</sup> October 2013.

- Invited Faculty – Topic- IPF: Neighbours envy, owners pride’ at the Sysmex Asia Pacific meeting at Malaysia, 8<sup>th</sup>-10<sup>th</sup> October 2013.
- Invited Faculty for workshop in ‘Clinical Flowcytometry- Acute Leukemias, CLPD and PNH’ at SGPGI Lucknow, 20<sup>th</sup>-22<sup>nd</sup> September 2013
- Invited Faculty- workshops ‘PNH by FLAER’ at a Flowcytometry workshop held at NIIH, KEM Hospital on 5<sup>th</sup> September 2013.
- Organised and Conducted the BD\_PDNH COE workshop on ‘Standardisation of Multiparametric Flowcytometry’ from 6<sup>th</sup> -9<sup>th</sup> August 2013.
- Invited Faculty – Topic- Role of IPF in Dengue patients at the Annual MHG meeting on 23<sup>rd</sup> March 2013 Monthly CME of Indian Medical Association Mumbai West branch in August 2013
- Invited Faculty- Topics- ‘Platelet Counts’ & ‘Managing 5 part CBC Services’ at the Basic Hematology Course at Tata Memorial Hospital on 14<sup>th</sup> June 2013.
- Invited Faculty- Topic- ‘Basics of flowcytometry’ at the Annual SRL meeting on 1<sup>st</sup> June 2013
- Organiser and Convener for National meeting ‘Building Consensus: Standardising six colour Flowcytometry Panels for leukemias and lymphomas’ on 4<sup>th</sup> May 2013.
- Invited Faculty- Topic- Approach to CLPD Diagnosis by flowcytometry at the IAPP meeting, Pune on 27<sup>th</sup> April 2013
- Invited Faculty-Clinical Flowcytometry Workshop at NCBS Bangalore, 10<sup>th</sup> April 2013
- Invited Faculty – Topic- Role of IPF in Dengue patients at the Annual MHG meeting on 23<sup>rd</sup> March 2013
- Presented a Poster on ‘Standardisation of PNH using FLAER’ which was also awarded the first prize at the annual MHG meeting 23-24<sup>th</sup> March 2013.
- Organised and participated in a Basic Coagulation workshop from 18<sup>th</sup> to 21<sup>st</sup> February 2013 as part of the initiative of the International Hemophilia Foundation.
- Attended a workshop on Primary Immunodeficiency Disorders on 4<sup>th</sup> February 2013.
- Invited Faculty- topic-“‘Basic Coagulation Tests and Pathway’” at a CME for Medical Laboratory Technicians held at Tata Hospital on 22<sup>nd</sup> December 2012.
- Invited Faculty- topic-“‘Multicolour Immunophenotyping – Instrument Setup’” at the Indo-US flowcytometry workshop held at IIT, Guwahati from 9<sup>th</sup> – 10<sup>th</sup> October 2012.
- Invited Faculty- topic-‘PNH by FLAER’ at a Beckman Coulter Flowcytometry CME on 1<sup>st</sup> October 2012 at Mumbai.
- Invited Faculty- Two workshops on ‘Multicolour Immunophenotyping’ and ‘PNH by FLAER’ at a Flowcytometry workshop held at NIIH, KEM Hospital on 4<sup>th</sup> and 6<sup>th</sup> of September 2012.
- Invited Faculty- topic- ‘Newer parameters on CBC analysers and Normal ranges’ Sysmex XE-User group meeting on 23<sup>rd</sup> June 2012 at Hyderabad.
- Invited Faculty- Topic- ‘Quality Control in a Flow Cytometry laboratory’ at the Second International flowcytometry conference titled ‘Multicolour Immunophenotyping- Standardisation and Applications’ held at Tata Memorial

- Hospital, Mumbai in March 2012.
- Organising Secretary for the 34<sup>th</sup> Annual Mumbai Hematology Conference, Mumbai, March 2012 and gave a presentation on Newer Research Parameters on CBC Analysers and Part Of the Panelist on “Nagging Issues In ALL treatment”
  - Invited Faculty- Topic- ‘Flowcytometry in lymph node diagnosis’ at the ESCA conference held at Tata Memorial Hospital, 5<sup>th</sup> January 2012.
  - Invited Faculty-Topic – ‘Normal patterns by Flow cytometry in Normal Peripheral blood and Bone marrow’ at the 18<sup>th</sup> Annual Hematology CME at Bombay Hospital on 28<sup>th</sup> January 2012.
  - Invited Faculty-Topic – ‘Immunophenotyping Basics’ at Annual Hematology CME, at TNMC and BYL Nair hospital, 26<sup>th</sup> and 27<sup>th</sup> Nov 2011
  - Invited Faculty-Clinical Flowcytometry Workshop at NCBS Bangalore, 3<sup>rd</sup> Nov 2011.
  - Participated as Faculty at the Sixth Clinical Flow Cytometry Course held at Tata Memorial Hospital, August 2011, Mumbai.
  - Conducted workshop on ‘Flow Cytometry – Principles and Applications’ as Faculty member at the Basic Hematopathology Course held at Tata Memorial Hospital, June 2011
  - Invited Faculty-Topic- “Newer Hematological Parameters- Do we really need them?” at the Sysmex international Conference at Manila Philipines 28<sup>th</sup>- 30<sup>th</sup> April 2011.
  - Participated as Faculty at the Fifth Clinical Flow Cytometry Course held at Tata Memorial Hospital, 14<sup>th</sup>-15<sup>th</sup> Feb 2011, Mumbai.
  - Invited Faculty-Topic- ‘Flowcytometric Immunophenotyping – Case Studies’ Multispeciality Pathology update KEM 10<sup>th</sup>-12<sup>th</sup> Feb 2011
  - Conducted workshop on ‘Flow Cytometry – Principles and Applications’ as Faculty member at the Basic Hematopathology Course held at Tata Memorial Hospital, June 2010
  - Participated as Faculty at the Second Clinical Flow Cytometry Course held at Tata Memorial Hospital, August 2009, Mumbai.
  - Participated as Faculty at the First CBC Course held at Tata Memorial Hospital, August 2009, Mumbai.
  - Invited Faculty-Topic- ‘Flow Cytometry- Instrument Setup and Standardisation’ at the Annual The Cytometry Society India conference, at NCBS Bangalore October 2009
  - Participated as Faculty at the First Clinical Flow Cytometry Course held at Tata Memorial Hospital, March 2009, Mumbai.

### **Presentations at Conferences as Delegate**

- Presented four posters at the ICCS annual conference at Seattle from 12<sup>th</sup>-14<sup>th</sup> October 2014
  - CD20 positive T cells: Quantification and Immunophenotype in normal peripheral blood, bone marrow samples and body fluids
  - Standardisation of single tube 8-colour B-ALL MRD assay with reference to the established 6 colour children oncology group (COG) MRD assay

- Unusual immunophenotype of T Cell LGL
  - Standardisation of high sensitivity PNH assay using Flaer as per 2010 and 2012 guidelines
- **H.M Bhatia award for the best oral paper presentation** at the 32<sup>nd</sup> annual conference of the Mumbai Hematology Group for the paper titled “Comparison of platelet counts by CellDyn Sapphire (Abbot Diagnostics), LH750 (Beckman Coulter), ReaPanThrombo Immunoplatelet method (ReaMetrix) and the International flow reference method, in thrombocytopenic blood samples”
  - **Berend Houwen Travel Award, ISLH Conference, Las Vegas 2009** for a poster presentation on “Comparison of platelet counts by CellDyn Sapphire (Abbot Diagnostics), LH750 (Beckman Coulter), ReaPanThrombo Immunoplatelet method (ReaMetrix) and the International flow reference method, in thrombocytopenic blood samples”
  - **Awarded 2<sup>ND</sup> PRIZE** for Poster presentation titled “Simultaneous Plasmodium vivax infection in 2 siblings double heterozygotes for Hb SD Punjab” at the Hematology Conference, North-west Chapter of IAPM- 27 September, 2005, at PGIMER, Chandigarh.
  - Oral paper presentation titled "Histopathological features of Fibrous Dysplasia of Bone and its Clinical correlation” at 54<sup>th</sup> Annual Conference of the Indian Association of Pathologists and Microbiologists held at Indore in December 2005.

### **Conferences and Continuing Medical Education Programs Attended**

- Attended the Annual Mumbai hematology Group conference as a panelist on ‘Advanced laboratory techniques in Hematology’, on 14-15<sup>th</sup> March 2015, ITC grand Central, Mumbai.
- Attended the Evidence based medicine conference on molecular pathology at Tata memorial hospital, 27<sup>th</sup>-28<sup>th</sup> February 2015
- Attended the Annual Mumbai hematology Group conference on 22-23<sup>rd</sup> March 2014, ACTREC, Navi Mumbai.
- Attended the The Cytometry Society – India, Annual Conference held at Kolkatta from 12<sup>th</sup> – 13<sup>th</sup> October 2012.
- Second International flowcytometry conference titled ‘Multiparameteric Immunophenotyping- Standardisation and Applications’ held at Tata memorial hospital, Mumbai in March 2012.
- Annual, The Cytometry Society India conference and INDO US Workshops- PNH and MRD workshops attended, 8<sup>th</sup>-12<sup>th</sup> Oct 2011, PGIMER Chandigarh
- VCS meet on CBC parameters at Delhi 16<sup>th</sup>-18<sup>th</sup> September 2011
- Organizing Secretary the 34<sup>th</sup> Annual Mumbai Hematology Conference, Mumbai, March 5<sup>th</sup> and 6<sup>th</sup> 2011
- Attended the Annual EBM conference at Tata Memorial Hospital on 26<sup>th</sup> of February 2011.
- Attended the RGCON MRD workshop at Delhi 4<sup>th</sup>-6<sup>th</sup> Feb 2011

- Attended the 15<sup>th</sup> National CME in Hematology held at Bombay Hospital 26<sup>th</sup>-29<sup>th</sup> of January 2011.
- 25<sup>th</sup> Annual Clinical Cytometry Society Meeting and Course, October 2009, Jacksonville Florida
- 32<sup>nd</sup> annual conference of the Mumbai Hematology Group , March 2009, Mumbai
- XV National CME in Hematology at Bombay Hospital, January 2009, Mumbai
- “An Update on Lymphoma Pathology” at TATA Memorial Centre, Nov. 2008.
- National meeting on guidelines for immunophenotyping of hematolymphoid neoplasms at TATA Memorial Centre in March 2008.
- 56<sup>th</sup> Annual conference of Indian Association of Pathologist and Microbiologist at PGIMER Chandigarh in November 2007.
- 1<sup>st</sup> National course on Renal Pathology by Pathology study society –AIIMS at AIIMS, New Delhi in August 2007.
- Progress in Pathology: An International Update at St. John’s Medical College, Bangalore in February 2006.
- 54<sup>th</sup> Annual conference of Indian Association of Pathologist and Microbiologist at Indore in December 2005.
- 32<sup>nd</sup> Annual Conference, IMMCON 2005 by Indian Immunology Society in November 2005 at PGIMER, Chandigarh.
- Indian Society of Haematology & Transfusion Medicine, North-west Chapter of IAPM- 27 September, 2005, at PGIMER, Chandigarh.

## 5. Extracurricular Activities

### i.)Sports

- Played in the Hinduja Hospital Doctors Cricket team in various matches in 2014-2016.
- Gold medal –Basketball, Annual Sports Meet PGIMER Chandigarh 2007
- Gold medal –Football, Annual Sports Meet PGIMER Chandigarh 2007.
- Gold medal –Basketball, Annual Sports Meet PGIMER Chandigarh 2006.
- Silver medal –Cricket, Annual Sports Meet PGIMER Chandigarh 2006.
- Silver medal –Football, Annual Sports Meet PGIMER Chandigarh 2006.
- Silver medal –Football, Annual Sports Meet PGIMER Chandigarh 2005.
- Silver medal –Basketball, Annual Sports Meet PGIMER Chandigarh 2005.

### ii.)Cultural

- Member of the ARD (Association of Resident Doctors) committee as the **Mess secretary Upper café**, PGIMER Chandigarh for the year period 2006-2007.
- Co-Chief organizer of Springfest-2007, the annual cultural festival and Co-Organiser Annual Sports meet – 2007in PGIMER Chandigarh.
- **Lawn Tennis Secretary** for the year 2000-2001 at Seth G.S.M.C and KEMH.
- Incharge and participant of the inaugural event ‘**DREAMS**’ at Aavishkaar 2001, the annual cultural festival in Seth G.S. medical college and KEMH. This was a 30 song sequence dance drama performed by 40 students in front of an audience of 850 people with a budget of one and a half lacs.
- Performing Arts in charge during Aavishkaar 2001, the annual cultural festival in

Seth G.S. medical college and KEMH.

- **First** prize for the **Fashion Show** Competition Held during the annual cultural festival in Seth G.S. medical college and KEMH -Aavishkaar 2001, with participation from all the medical and dental colleges of Mumbai.
- Participated in the Lawn tennis tournament and the Badminton doubles tournament at 'Pulse' 1999 the annual cultural festival held at AIIMS.