

CURRICULUM VITAE

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Fellowship in Clinical Cytogenetics (CMC, Vellore)

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PERSONAL DETAILS

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Educational Qualification and Specialty Training

Qualification	Date	Institute
MBBS	1994-1999	JJM Medical College, Davangere ,Karnataka India
MD, Pathology	2001 – 2004	Armed Forces Medical College,Pune
Senior Registrar Oncopathology	March 2005- Feb 2006	Tata Memorial Hospital ,Mumbai,India
Post Doctoral Fellow,Cytogenetics	Aug 2009-July 2011	Cytogenetics Unit, Christian Medical College Vellore ,India
ICMR Fellowship	Feb1st to April 30 th 2013	Duke Institute of Genomic Sciences , Duke University ,USA
Gigax Foundation, Internship	June 23 rd to August 5 th 2017	St. Anna Kinderkrebsforschung, Vienna,Austria

Career Plan/Overview

At Tata Medical Center, I am a senior consultant in Lab haematology and Cytogenetics, heading the Cytogenetics department. I was responsible for establishing the cytogenetic facility at the Tata Medical Center in 2011 which is the only centre in Eastern India offering comprehensive Cytogenetic testing (karyotype and FISH) in cancer patients and systematic training programme. The laboratory handles more than 3000 samples that include adult and paediatric, liquid and solid tumors.

I was funded by the GIGAX foundation for an internship at the Cytogenetic Laboratory of the St. Anna Children's Cancer Research Institute where I spend 6 weeks learning and working on analysis of data generated from high density microarray gene chip (High- Density platform, Cytoscan HD, ThermoFisher, USA). I utilised the training in investigating copy number variations in Paediatric B ALL patients (100 patients) using the Cytoscan HD platform. I am also a regular member and participant of the "Array Group meetings" at the International BFM meetings.

I was awarded the Indian Council of Medical Research International Fellowship for young Scientists 2012-2013. This award funded my fellowship at Duke Institute of Genomic Sciences, Duke University, USA. During my stay there I worked on microarrays and Next Generation Sequencing at Dr Sandeep Dave's Lab contributing to the Hepato-splenic lymphoma project (Published:DOI:10.1158/2159-8290.CD-16-0330).The training here helped me to successfully submit a grant on genetic risk stratification of paediatric ALL using high throughput genomic techniques. I have met all the targets of this grant which was completed in 2020 and I am in process of submitting the third manuscript based on the data generated from this work (Two papers from this grant have already been published).

At the beginning of my career I worked as a senior resident at Tata Memorial Hospital Mumbai in the Surgical Pathology Section. It was here that my interest in oncopathology was given the much needed impetus. I have also worked in a rural setting providing my services at a rural medical college that offered free of cost healthcare where I learned to manage patients in resource constrained settings.

As a post doctoral fellow in Cytogenetics at CMC Vellore for two years I learned to integrate research with clinical care. I underwent intensive training on various cytogenetic techniques, approach and strategies in managing the haemato-lymphoid malignancies.The training here helped me establish a diagnostic cytogenetic laboratory service at my present place of employment at Tata Medical Center.

I relish the dual responsibilities of running the clinical Cytogenetic services, lab haematology services and conducting laboratory based research.

Professional Timeline

Date	Designation	Place
June 1st 2015 onwards	Senior Consultant Lab Haematology and Cytogenetics	Tata Medical Center, Kolkata
June 1st 2012 to May 31st 2015	Associate Consultant Lab Haematology and Cytogenetics	Tata Medical Center, Kolkata
Aug 1st 2011 to May 31st 2012	Junior Consultant Lab Haematology and Cytogenetics	Tata Medical Center, Kolkata
Aug 1st 2009 to July 31st 2011	Post Doctoral Fellow Cytogenetics	Christian Medical College Vellore
May 20th 2006 to July 31st 2009	Assistant Professor Pathology	RD Gardi Medical College Ujjain
March 1st 2005 to Feb 28th 2006	Senior Registrar Oncopathology	Tata Memorial Hospital Mumbai

Details of present work profile, work experience and training

Consultant Cytogenetics and Lab Haematology (Tata Medical Center, Kolkata)

(August 1st 2011 onwards)

Presently I am heading the Cytogenetic department and I am a senior consultant in Lab Haematology at the Tata Medical Center Kolkata which is a tertiary care oncology center, a philanthropic initiative from the House of Tata with a mission to promote prevention, early diagnosis, treatment, rehabilitation and palliation and Research for cancer patients.

I was responsible for setting up and standardizing the cytogenetic facility at the Tata Medical Center which is the only center in Eastern India offering complete spectrum of conventional cytogenetic and FISH analysis in cancer patients and tests offered include

- Karyotyping of Haematological malignancies
- Fluorescent In situ Hybridisation (FISH) for haematological malignancies
- FISH on formalin fixed paraffin embedded tissues from solid tumors
- Stress Cytogenetics

Research Experience /proposals

I have a role as a Clinical Scientist at the Tata **Translational Cancer Research Center**. I have been awarded a grant by Department of Biotechnology, Government of India for my work on Acute Lymphoblastic Leukaemia (ALL). (Grant No: BT/PR12046/MED/12/665/2014). I am using high throughput genomic technologies (NGS and SNP array) to refine the risk stratification in paediatric ALL.

Nationally I lead and chair the cytogenetics group in the multi centre collaborative national trial for newly diagnosed patients with ALL (InPOG-ALL-15-ICiCle-ALL-14). In the trial we have designed a cytogenetic strategy for risk stratification of

paediatric ALL patients that is efficient, sensitive, specific and cost effective (published:doi:10.1002/psc.27366).

The short overview of my awarded grant is as follows

Principal Investigator for project Proposal ID: BT/PR12046/MED/12/665/2014

Project Title: "Tumour genome profiling and minimal residual disease estimation in acute haematological malignancies using single-platform next generation sequencing strategies"

Objectives of the proposal:

- Establishing a biorepository of comprehensively annotated clinical material for research studies.
- Minimal residual disease standardization in T-ALL using flow cytometry.
- Refining risk stratification in Pre-B all through molecular genetics profiling.

Working with my team we were able to establish a biorepository. A standardised ethics-approved process has been developed to ensure systematic banking of high quality, appropriately consented clinical material. This biorepository is linked to standardised clinical studies, providing a powerful platform for investigating disease and its treatment and the translation of these findings to the clinic.

Over 2 years, samples from 293 paediatric ALL patients (mean, ~5 samples/ patient), including diagnostic and follow-up BM, PB and cerebrospinal fluid samples (34%, 61%, 5% respectively) have been banked. An average 13.5 microgram DNA was isolated from MNC pellets (~60% of projected DNA yield), of suitable quality for quantitative PCR, DNA arrays and high throughput sequencing studies. Banked plasma samples have been successfully tested for Asparaginase activity. The average post-thaw viability of cryopreserved samples is 60%.

Along with copy number variation analysis using Cytoscan HD we have developed and standardized an amplicon-based high throughput sequencing approach to identify somatic mutations in target genes in patients with precursor B Cell ALL.

Collaborative research work

- Working in collaboration with Leukaemia Research Cytogenetics Group, Newcastle University have been part of publication on i(AMP)21 (Leukemia. 2014 May;28(5):1015-21. doi: 10.1038/leu.2013.317. Epub 2013 Oct 29.)
- Collaborating with Northern Institute of cancer research, Newcastle University on cMYC positive ALLs.

- Part of a collaboration with Dr Sandeep Singh, Indian Alliance fellow, NIBMG, Kolkata, India in characterising the patient derived gingivobuccal carcinoma cell lines his lab has developed.

Details of Previous work Profile, work experience and Training

❖ Post Doctoral Fellow (CMC Vellore)

(Aug 2009-July 2011)

I was selected for a fellowship in Cytogenetics by topping the entrance examination that was open to all doctors in the country. The organized and exhaustive training gave me an opportunity to be involved in all aspects of the work in the center which handles about 3000 samples annually from blood, bone marrow, amniotic fluid, chorionic villus, skin and solid tissue which were studied using by conventional cytogenetic as well as fluorescence in situ hybridization (FISH) analysis. My fellowship programme included the following responsibilities

- Culturing and harvesting chromosomes from a variety of tissues including blood, bone marrow, amniotic fluid, chorionic villus and solid tissue.
- Making slides staining and analyzing the harvested chromosomes and reporting the karyotype.
- Mitomycin C testing in patients suspected to have Fanconi anaemia .
- Processing and reporting FISH analysis in patients with haematological malignancies as well as constitutional chromosomal abnormalities.
- Constructing a written report using the international system for human cytogenetic nomenclature (ISCN) which contains all appropriate diagnostic information and recommendations to the requesting clinician in a timely fashion.
- Close interaction with referring clinicians (Hemato-oncologists, clinical geneticists, paediatricians and others) requiring me to advise clinicians regarding the choice and selection of the tests, given the clinical question to be

answered and relative diagnostic strengths and limitations of any proposed investigation.

- Providing appropriate information and inferences about a case to referring clinicians by oral (face-to-face or telephone) communication and following up patient outcomes by consultation with clinicians.
- The fellowship programme also included postings to molecular division, flow cytometry (2 months), and the hematopathology division (one month).

Assistant Professor (RDGMC Ujjain)

(May2006-July 2009)

- Post my training at TMH I wanted to spend some time in a rural area to serve and to gain an overall experience of working in different settings including those that are resource constrained. I opted for a teaching position (Assistant Professor) in the Pathology Department of RD Gardi Medical College , Surasa, Agar Road, Ujjain which as a charitable hospital in a rural area offered free of cost health care to patients . The job engaged me with theoretical and Practical training of Post Graduates pursuing MD degree in Pathology, Undergraduates pursuing MBBS Degree and also students of Physiotherapy, Nursing and Medical Technology students. This broad spectrum of interactive academic and professional interface in a semiurban and rural setting gave me a strong base and platform to consolidate and enrich his abilities to understand analyze and resolve the varied types of clinical situations a Pathologist faces.
- Though officially in charge of the Central Lab catering to the diagnostic needs of Indoor patients, the very organizational structure brought me in the thick of first hand handling and reporting on Cytologic/ Histopathologic and Hematologic cases independently. The surrounding tribal belt and scant availability of medical/health services in this part of the country gives to the

institute a rare opportunity to have a variety of clinical material otherwise not available to other institutes. This cross sectional exposure and the resultant confidence made me to aspire for much wider and deeper involvement in his specialty.

- As an active Member of Academic and Education committee of this college I understood and grasped the process of institutional building and a process of launching, integrating, sustaining and advancing of the core academic strength of the Department.

Senior Residency (TMH, Mumbai)

(March 2005 -Feb2006)

- Post MD at AFMC, Pune I was selected for Senior Residency at Tata Memorial Hospital Mumbai in the Surgical Pathology Section. The high volume of work and the structured and systematic pathology reporting provided me the much needed upward and upfront thrust to hone my abilities and consolidate what I had learned so far. Below is a fact/sheet of the training I underwent and the responsibilities I shouldered
 - Grossing of oncosurgery specimens and reporting on the same (36000/year)
 - Reporting histopathology and small biopsies
 - Reporting of bone marrow biopsies
 - Expertise in using Ancillary techniques like Immunohistochemistry in aiding diagnosis.
 - Frozen section (10-15/day)
 - Reporting Cytology for cervix , body fluids, crush, brush and imprint smears
 - Performing fine needle aspiration cytology on patients and reporting on the same
 - Participation in postgraduation teaching programmes
 - Theory classes for BSC students of nursing, radiotherapy and lab technology.

Junior Residency (AFMC, Pune): (July 2001-July2004)

- After my Graduation at Davangere (MBBS), I entered Armed Forces Medical College (AFMC), Pune on the basis of my 5th rank in the AFMC PG Entrance Examination open to all the MBBS -holders in India. This AFMC opportunity for a post graduate degree in Pathology (MD) brought me face to face with a structured professional training; professional learning and more importantly armed him with a professional mindset. Below is a fact sheet of the training he underwent and the responsibilities he shouldered

- **Autopsy services** (75 autopsies in three years)
 - Performing autopsies
 - Processing of organs sampled at autopsy
 - Organ demonstration to concerned clinicians
 - Reporting of microscopy and photography of gross specimens and microscopy slides.
- **Surgical Pathology services:**
 - Grossing and processing of all surgical specimens
 - Reporting
- **Cytology and Gynaecologic Pathology services:**
 - Processing and reporting of cervical smears
 - Processing and reporting of body fluids, crush, brush and imprint cytology
 - Performing fine needle aspiration cytology on patients and reporting the same
 - Grossing and reporting gynaecologic histopathology
- **Haematology services:**
 - Processing and reporting of haemograms and coagulograms
 - Reporting bone marrow aspirates and trephine biopsies.
 - Reporting of electrophoresis, enzyme assays and all other hematological investigations
- **Academic training includes**
 - Clinico pathological conferences on autopsy cases
 - Clinical meeting and case discussions
 - Slide seminars
 - Lectures and demonstrations
 - Journal clubs
 - Presentation of research papers at conferences.

- **Teaching Experience:**

- Theory lectures and Practical classes for MBBS students and BSC Lab technology students
- Student clinical meetings and clinicopathological conferences

Publications

1. A triple-probe FISH screening strategy for risk-stratified therapy of acute lymphoblastic leukaemia in low-resource settings. **Parihar M**, Singh MK, Islam R, Saha D, Mishra DK, Saha V, Krishnan S. Pediatr Blood Cancer. 2018 Aug 31:e27366. doi: 10.1002/pbc.27366.
2. Nishit Gupta, **Mayur Parihar(first Author)**, Sambhunath Banerjee, Subhjit Brahma , Ravikiran Pawar, Asish Rath, Sundar Shewale, Manish Singh, Arun Sasikumaran, Nair Remani, Shekhar Krishnan, Arpita Bhattacharyya , Anirban Das, Jeevan Kumar, Saurabh Bhawe, Vivek Radhakrishnan, Reena Nair, Mammen Chandy, Deepak Mishra, Neeraj Arora. FxCycle™ Based Ploidy Correlates with Cytogenetic Ploidy in B-Cell Acute Lymphoblastic Leukemia and Is Able to Detect the Aneuploid Minimal Residual Disease Clone. *Cytometry Part B (Clinical Cytometry)* (2019). <https://doi.org/10.1002/cyto.b.21765> .
3. Efficacy and safety of a bortezomib and reduced-intensity cytarabine-based protocol, TMC ALLR1, for relapsed childhood ALL in India. Roy P, Islam R, Saha D, Gogoi M, Kumar Mishra D, Arora N, **Parihar M**, Krishnan S, Saha V. *Br J Haematol*. 2019 Jun 5. doi: 10.1111/bjh.16005
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- Workshop in Childhood Acute Lymphoblastic Leukemia. *Leukemia*. 2014 May;28(5):1015-21. doi: 10.1038/leu.2013.317. Epub 2013 Oct 29.
6. The Genetic Basis of Hepatosplenic T-cell Lymphoma. Matthew McKinney, Andrea B. Moffitt, Philippe Gaulard, Marion Travert, Laurence De Leval, Alina Nicolae, Mark Raffeld, Elaine S. Jaffe, Stefania Pittaluga, Liqiang Xi, Tayla Heavican, Javeed Iqbal, Karim Belhadj, Marie Helene Delfau-Larue, Virginie Fataccioli, Magdalena B. Czader, Izidore S. Lossos, Jennifer R. Chapman-Fredricks, Kristy L. Richards, Yuri Fedoriw, Sarah L. Ondrejka, Eric D. Hsi, Lawrence Low, Dennis Weisenburger, Wing C. Chan, Neha Mehta-Shah, Steven Horwitz, Leon Bernal-Mizrachi, Christopher R. Flowers, Anne W. Beaven, **Mayur Parihar**, Lucile Baseggio, Marie Parrens, Anne Moreau, Pierre Sujobert, Monika Pilichowska, Andrew M. Evens, Amy Chadburn, Rex K.H. Au-Yeung, Gopesh Srivastava, William W. L. Choi, John R. Goodlad, Igor Aurer, Sandra Basic-Kinda, Randy D. Gascoyne, Nicholas S. Davis, Guojie Li, Jenny Zhang, Deepthi Rajagopalan, Anupama Reddy, Cassandra Love, Shawn Levy, Yuan Zhuang, Jyotishka Datta, David B. Dunson and Sandeep S. Davé. *Cancer Discov* April 1 2017 (7) (4) 369-379; DOI: 10.1158/2159-8290.CD-16-0330.
 7. Clinicopathological features of hepatosplenic T cell lymphoma: a single centre experience from India. N Patkar, S Nair, AA Alex, **M Parihar**, MT Manipadam, N Arora, R Ahmed, et al. *Leukemia , lymphoma* 53 (4), 609-615.
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 10. Mosaic double aneuploidy: Down syndrome and XYY.**M Parihar**, B Koshy, VM Srivastava *Indian journal of human genetics* 19 (3), 346.
 11. Jumping translocation in a case of *De novo* infant acute myeloid leukemia.**M Parihar**, A Gupta, AK Yadav, DK Mishra, A Bhattacharyya, M Chandy .*Pediatric blood , cancer* 61 (2), 387-389
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17. Management of Lymphomas: consensus document 2018 by an Indian Expert Group R Nair, A Kakroo, A Bapna, A Gogia, A Vora, A Pathak, A Korula, **Parihar M** et al .Indian Journal of Hematology and Blood Transfusion, 1-24.
18. Granulocytic dysplasia: an indicator of clonal evolution in patients with chronic myeloid leukemia S Rajpal, RV Nampoothiri, S Sreedharanunni, **M Parihar**, P Malhotra, et al. Blood research 53 (2), 180-181.
19. Das, Anirban ,Zameer, Lateef , Vinarkar, Sushant , Singh, Manish , **Parihar Mayur** , Arora, Neeraj , Chandra, Aditi , Basu, Rimpa. (2017). TP53 Mutation, MYCN Amplification, and Large Cell/Anaplastic Histology in Medulloblastoma. The Indian Journal of Pediatrics. 85. 1-2. 10.1007/s12098-017-2527-6.
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Top 20 Abstracts

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- in Eastern India. R Shrimali, J Bhargav, N Arora, D Midha, **M Parihar**, D Mishra, et al Lung Cancer 103, S1
3. Flow Cytometric DNA Ploidy Detects MRD Hyperdiploid BCP-All Clone. A Rath, N Gupta, **M Parihar**, M Singh, S Shewale, S Banerjee, S Brahma, et al. Clinical Lymphoma, Myeloma and Leukemia 18, S182-S183
 4. Gupta, N, Mishra, D , **Parihar, Mayur** , Arora, Neeraj , Singh, M , Sr, Arun , Rath, Asish , Shewale, Sundar , Nair, R , Bhave, S , Chakrapani, A , Radhakrishnan, Vivek , Bhattacharyya, A , Krishnan, S , Das, Anirban , Saha, V , Chandy, M. (2017). Spectrum of MDS Patients from a Single Tertiary Care Cancer Center in India. Leukemia Research. 55. S86-S87. 10.1016/S0145-2126(17)30253-9.
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AWARDS

- Awarded the **Indian Council of Medical Research International Fellowship for young Scientists 2012-2013.**

INVITED SPEAKER/GUEST LECTURES

- I have given invited talks and lectures in more than 75 national and international conferences, meetings and workshops.

REVIEWER/EDITOR FOR SCIENTIFIC JOURNALS

- Associate Editor of Indian Journal of Haematology and Blood Transfusion
- Reviewer in Indian Journal Of Pathology and Microbiology

Teaching Experience

- Both undergraduate and post graduate teaching experience
- Supervise Fellowship programme in Cytogenetics, Lab Haematology and Molecular Geneitcs.
- Have trained more than 10 fellows in the above mentioned specialty .

Miscellaneous

- Technical Assessor in the National Accreditation Board of Laboratories (NABL)
- Have assessed more than 25 Laboratories for quality assurance in India .

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