

CURRICULUM VITAE

MOHSIN MAQBOOL

412, 4th Floor, Medical Oncology, IRCH, AIIMS
New Delhi, India -110029.



OBJECTIVE

I am confident and enthusiastic person with the ability to learn and adapt quickly to new challenges and to handle difficult situations under pressure. I want to work in the field where I can utilize my mental acumen and practice my skills what I have learned, to continue my learning process so that I can expand my knowledge for the self development and to serve mankind.

EDUCATION

Year	University/Institute	Grade
2017	PhD (Doctorate) (Medical Oncology/Leukemia) Topic: "Wnt/B-catenin Signaling Molecules and common mutations (FLT3,CEBPa) in de-novo Acute Myeloid Leukemia (AML)" All India Institute of Medical Sciences (AIIMS) New Delhi, India.	Degree to be Awarded (July ,2017)
2007 - 2009	Masters of Sciences (Biochemistry(Clinical)) University of Kashmir, Hazratbal Srinagar, J&K India.	1st Division - 75.0 %
2004 - 2007	Bachelor of Sciences (Biochemistry) S.P College, University of Kashmir Srinagar, J&K India.	1st Division - 62.0 %
2004 - 2005	Higher Secondary School Certificate (Physics, Chemistry, Biology) S.P Higher Secondary School, Srinagar, Kashmir, J&K India.	1st Division - 63.0 %
2015	Professional Diploma in Clinical Research (PDCR) Catalyst Clinical Services, New Delhi India.	A+
2016	Professional course in Clinical Trial Management	Result Awaited

RESEARCH EXPERIENCE

More Than Five (06) years of research experience in Cancer Biology (Cancer genetics/genomics)

- **Senior Research Fellow (SRF): (2012- till date)**

Project: To study the role of *Wnt/B-catenin* Signaling Molecules and common mutations (FLT3,CEBPa) in *de-novo* Acute Myeloid Leukemia (AML). Under Prof Lalit Kumar and Prof Atul Sharma, in Medical Oncology Lab, IRCH AIIMS, New Delhi India.

- **Junior Research Fellow (JRF): (2010-2012)**

Project: To study the role of *Wnt/B-catenin* Signaling Molecules and common mutations(FLT3,CEBPa) in *de-novo* Acute Myeloid Leukemia (AML). Under Prof. Vinod Raina, Prof. Lalit Kumar and Prof. Atul Sharma, in Medical Oncology Lab, IRCH AIIMS, New Delhi India.

- **Master thesis: (2009-2010)**

Master's practical course

Project 1: "*Molecular and Cytogenetic Parameters of CML*" (Bcr-Abl, and Cytogenetics), under Prof Vinod Raina and Dr Sobuhi Iqbal, in Medical Oncology Lab, IRCH AIIMS, New Delhi India.

Project 2: "*Modern Ways of Diagnosis and Interpretation in the Clinical Practice.*" under Prof Mushtaq - Siddiqi, in Molecular Medicine, SKIMS Soura, J&K, India.

RESEARCH INTEREST

- **Cancer Biology:** (Cancer Biology (Leukemia/ Immuno-oncology, cancer genetics and genomics and stem cell biology.
- **Molecular and Cell biology.**

AWARDS AND FELLOWSHIPS

- **2012 – 2017** Senior Research fellowship (SRF), ICMR New Delhi, India.
- **2010 – 2012** Junior Research fellowship (JRF), AIIMS New Delhi, India.

EXPERIMENTAL SKILLS

➤ **Molecular and biochemical techniques**

- 1) **Molecular biology and cloning:** DNA/RNA/Protein extraction, plasmid Isolation, PCR (RT-PCR), Realtime PCR and familiar with MS-PCR.
- 2) **Immunohistochemistry:** Immunohistochemistry(IHC) for verification of the cancer markers and arrays.
- 3) **Biochemical techniques:** DNA Sequencing, data analysis of DNA sequencing, Gel electrophoresis of DNA and protein, Chromatography (Paper and TLC of amino acids, carbohydrates) and biochemical analysis of different biomolecules (Protein, DNA, Lipids and carbohydrates), and western blotting.
- 4) **Immunological Techniques:** Immuno electrophoresis and ELISA.
- 5) **Microbial Genetics:** Culturing and regular maintenance of bacterial cultures, transformation, growth curve.
- 6) **Bioinformatics:** BLAST, Fasta, Clustal W, sequencing analysis software, WGS/WES.

➤ **Physiological techniques**

- 1) **Animal Cell culture:** Preparation and maintains of primary cell culture-Bone marrow Cell Culture (Leukocytes) for Cytogenetics. Experience in working with secondary cell lines (HeLa etc).
- 2) **Microscopy:** Experience in handling simple and fluorescence microscope and SP8 confocal microscopy.

➤ **Biophysical techniques**

- 1) **Spectroscopy:** Familiar with general spectroscopy, UV-Visible spectroscopy - setup and procedures, nano drop, bioanalyser and data analysis.

➤ General Cell and Molecular Biology Techniques

- 1) Flow cytometry (FACS), cancer cytogenetics (CML), familiar with microarray gene expression, FISH, MACS, Ficoll Layering, MTT assay. Genomics, NGS & Cytogenetics.
- 2) Animal Models handling
Familiar in handling the mouse models

➤ Computer Skills

- 1) Application software: MS-OFFICE (Power point, MS- Word and Excel). 6 Months Course
- 2) Bioinformatics: NCBI Pubmed search engine, BLAST, familiar with using bioinformatics tools and software's for mutations.
- 3) Statistics: Basic applied biostatistics.

CONFERENCES ATTENDED

Conferences:

- 1) *Ist India Cancer Congress*, New Delhi, 2013.
- 2) *New Horizons in Cancer Research: Biology to Prevention to Therapy Conference*, organized AACR at Gurgaon, New Delhi, 2011.
- 3) *International symposium on Cancer and Genomic Instability Srinagar J&K*, 2007.
- 4) *AACR, annual meeting 2016 USA*.
- 5) *SYS CON, AIIMS, India*.

Workshops:

- 1) Molecular-Cytogenetics, PCR and Flowcytometry, Workshop at AIIMS, New Delhi.
 - Many other workshops and symposiums attended related to cancer genetics.
 - Many JCs and Seminars delivered and attended on Cancer Biology (Cancer genetics, epigenetics, leukemia, molecular biology of cancer)
 - Selected for Personalized cancer carrier discussions AACR 2016.
 - DBT Travel award for AACR 2016.

ABSTRACTS PRESENTED

- 1) **Maqbool M**, Sharma A, Kumar L. (Abstract and Oral presentation) -FLT3-ITD mutation in de novo AML: an experience at tertiary care institute from north India. *Ist India Cancer Congress*, New Delhi, India, 2013.
- 2) Arvind Kumar, **M Maqbool**, Atul Sharma et al. To study the gene expression profile of advanced gall bladder cancer. - *ASCO 2014, USA* (Abs ID: e15099).
- 3) **Maqbool M**, Iqbal S, Sharma A, Kumar L. B-Catenin gene expression and its mutations: convincible and key component in the pathogenesis of acute myeloid leukemia (AML). *AACR annual meeting 2016, USA* (Abstract ID 3120) (Accepted)
- 4) **Maqbool M**, Iqbal S, Sharma A, Kumar L. Incidence and prognostic relevance of FLT3-ITD mutations and Beta Catenin mutations in de novo acute myeloid leukemia (AML). *ACOS 2016, New Delhi India* . Abs ID 2048 (Accepted)
- 5) **Maqbool M**, Iqbal S, Sharma A, Kumar L. Analysis of WNT signaling gene expression and prognostic role in acute myeloid leukemia (AML) *ASCO 2016, USA* (Abstract ID 162753) (Submitted)
- 6) Poonam K, Iqbal S, **Maqbool M**, Kumar L. *Loss of Y chromosome in Chronic myeloid leukemia (CML)*. *AHPCON 2016, N Delhi, India*.

PUBLICATIONS

- 1) FLT3-ITD mutation in de novo AML: an experience at tertiary care institute from north India. **Maqbool M**, Sharma A, Kumar L et al. *Ind Jr of Cancer*, Nov 2013(Abst)
- 2) To study the gene expression profile of advanced gall bladder cancer. Arvind Kumar, **M Maqbool**, Atul Sharma et al (*Submitted in Annuals of Oncology*).
- 3) B-Catenin gene expression and its mutations: convincible and key component in the pathogenesis of acute myeloid leukemia (AML). **M Maqbool**, Sharma A, Kumar L et al. Proceedings of the AACR. 2016 (Abst)
- 4) Analysis of WNT signaling gene expression and potential role in acute myeloid leukemia (AML). **M Maqbool**, Sharma A, Kumar L et al. *J Clin Oncol*, 34 2016 (Suppl,Absrt)
- 5) Targeting Stem Cell Protein BMI1; A Potential Therapeutic Approach for Prostate Cancer Therapy, F H Beigh, N Syeed, **M Maqbool** and RS Majumdar. *J Stem Cell Res Ther* 7: 388. 2017

MEMBERSHIPS

- ESMO - Associate member.
 - AACR - Associate member.
 - ASCO - Junior member.
 - * Society of Cancer Research - Associate member.
 - * Oncology Forum, New Delhi India - member.
- **Valid USA Visa for Ten (10) years till 2025 (B1/B2 USA Visa)**

REFERENCES

1). Dr Lalit Kumar

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2). Dr Rashid Mir

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AIIMS, New Delhi, India. And,
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4). Dr Atul Sharma

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Medical Oncology, IRCH, AIIMS, New Delhi, India. And,
Visiting Associate Professor, Department of Internal-
Medicine, Section of Haematology/Oncology
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5). Dr Syed Hussain Mir

Snr Assistant Professor
Clinical Biochemistry, University of Kashmir, J&K India.
And, Visiting Rech Fellow, University of Freiburg, Freiburg, Germ:
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6). Dr Vinod Raina

Professor and Head
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