

Format for Scientist Profile

- **Name** Dr. Aroonima Misra
- **Designation** Scientist D
- **Discipline/research area** Onco-pathology, Molecular Onco-pathology, Cancer prognostication, Hematopathology,
- **ORCID ID, h-index:** [0000-0003-2884-3600](https://orcid.org/0000-0003-2884-3600), H index- 5
- **Address (off.)** ICMR-National Institute of Pathology, Safdarjung Hospital campus, New Delhi-110029
- **Telephone (off.)** +91-7838827003
- **Email address** drarooo2402[at]gmail.com

- **Educational Qualifications:**

S. No	Degree	Subject	University
1	MBBS including Internship	Medicine	Pt. RSU, Raipur, Chhattisgarh
2	MD	Pathology	Aligarh Muslim University
3	Fellowship	Hematopathology	TATA Medical center, Kolkata

Other trainings:

S. No	Training Name	Year	Subject	Place
1	TATA Hemato Oncology Observership, 2016	2015-3 months	Hemato-ONCOLOGY including molecular hematology	TATA memorial hospital, Parel, Mumbai and ACTREC, Navi mumbai
2	Pediatric cytogenetics including FISH and Karyotyping	2017-2 months	Pediatric cytogenetics including karyotyping	Department of pediatric genetics, ALL India Institute of Medixcal sciences, New Delhi

- **Research Experience:**

S.No.	Positions held	Name of the Institute	From	To
1	Fellow	TATA medical center, Kolkata	04-07-13	31-03-14
2	Academic Senior resident	All India institute of Medical Sciences, AIIMS, New Delhi	12-05-14	11-12-16
3	Scientist B	Indian council of Medical Research, National Institute of nutrition, Hyderabad	13-12-16	22-05-17
4	Scientist C (Talent search scheme)	Indian council of Medical Research, National Institute of Pathology, New Delhi	23-05-17	Till present

- **Awards**

S.No	Name of Award	Awarding Agency	Year
1.	CSIR-Summer Research Training Programme- Mentor	CSIR- Summer Internship Mentor to 13 students	2020
2.	Cancer Genetics and Genomics programme Annual Short-term fellowship programme Fall 2018	Duke Cancer Center, 20 Duke Medicine Circle Durham, North Carolina, U.S.A (Not availed due to Pregnancy and maternity)	2018
3.	Department of biotechnology (DBT) international travel award for junior scientists	Department of biotechnology (DBT)	2015
4.	ISLH BEREND HOUWEN AWARD Milan, Italy.	International society of lab Hematology, Milan, Italy	2016
5.	HAA & HANZ international award for best oral paper	Haematology Society of Australia and New Zealand, Adelaide	2015
6.	Academic Awards- 5 University and college Gold Medals. silver medal and 2 certificates of Merit	Pt. Jawaharlal Nehru Medical College, Pt RS University, Raipur, C.G	2002-2007
7.	2nd prize for best oral presentation at National symposium for emerging trends in behavioral sciences, AMU	National Society of behavioural change and neurosciences	2012

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- **Membership/Fellowship of Professional Societies/Associations :**

1. Life Member- Indian society of hematology and blood transfusion

2. Life Member- Molecular pathology association of India

3. Annual Member- Federation of Clinical Immunology Societies (FOCIS)

- **Publications** (write numbers only National , International)- 20

- **10 best publications** (preferably with citations and impact factor)

S. no	Authors	Title	Name of journal	ID	Type/Status	Year
1.	Verma S, Dhanda H, Singh A, Rishi B, Tanwar P, Chaudhry S, Siraj F, Misra A.	Systematic review of epigenetic targets in acute myeloid leukemia... Am J Blood Res. 2021	Am J Blood Res.	Impact factor: 0.8.	PMID : 34824880; PMCID: PMC8610793	2021
2.	Gera A *, Misra A*, Tiwari A, Singh A, Mehndiratta S	A hungry Histiocyte, altered immunity and myriad of problems: Diagnostic challenges for Pediatric HLH.	<i>Int J Lab Hematology</i>	impact factor: 2.401	Original article	2021
3.	Siraj F, Tanwar P, Singh A, Rishi B, Ranjan A, Chopra A, Rai S, Bakhshi S, Misra A.	Analysing "tear-drop" prints of acute promyelocytic leukemia (APML): immunophenotypic prognostication of APML by FCM.	Am J Blood Res. 2021	Impact factor: 0.8.	Original article	2021
4.	Das S*, Misra A*, Kashyap A,	. Study of transfusion-related iron overload (trio)	Am J Blood	Impact factor:	Original	2021

	Meena S, Singh A, Aggarwal KC	in pediatric patients with hematological malignancy and bone marrow failure syndromes.	Res.2021	0.8.	article	
5.	Chauhan S, Rishi B, Tanwar P, Mehdi G, Arif SH, Rabbani T, Rai S, Siraj F, Misra A.	Therapeutic lessons from transfusion in pregnancy-effect on hematological parameters and coagulation profile.	Am J Blood Res. 2021	Impact factor: 0.8.	Original article	2021
6.	Das S, Kashyap A, Chopra N, Aggarwal KC, Misra A* , Singh A.	Ferritin as an indicator of disease activity in Hodgkin lymphoma in pediatric patients. PMID: PMC8918701.	Am J Blood Res. 2022	Impact factor: 0.8.	Feb 15;12(1):11-16.	2022
7.	Sandeep rai, U Bhardwaj, Aroonima Misra (corresponding author)	Comparison between photostability of alexa fluor 448 (Beckman coulter) and alexa-fluor 647 (Beckman coulter) with conventional dyes- FITC and APC by flow cytometry	International journal of lab hematology,	39:1;67-68 impact factor: 2.401	67-68	2018
8.	Aroonima Misra , Chopra, A., Kumar, R. and Bakhshi, S.	Diagnostic considerations in juvenile myelomonocytic leukemia in tropical settings.	International journal of lab hematology,	39 impact factor: 2.401	e77-e79 doi:10.1111/ijlh.12626	2017
9.	Misra, A. , Verma, D., Chandramohan, J., Bakhshi, S., Kumar, R., Gajendra, S., and Chopra, A.	Nuclear cupping in the blasts—more to the cup than myeloid. doi: 10.1002/hon.2180.	Haematological oncology,	34 Impact factor: 3.49	171-173	2016
10.	Aroonima Misra , Jyoti Mishra, Jagan Chandramohan,	Old but still relevant: High resolution electrophoresis and immunofixation in multiple myeloma.	IJHBT.	32 issue 1 Impact factor: 0.26.	10-17	2016

	Atul Sharma, Vinod Raina, Rajive Kumar, Sushant Soni, Anita Chopra.				
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- **Projects :**

- Our laboratory is primarily focused at working with oncopathogenesis and understanding the prognostic factors associated with hematological malignancies especially those of pediatric and adult AML and chronic myeloid leukemia.
- Our laboratory is also working on liquid biopsy as a tool for prognostication in various cancers.
- Our laboratory is also working towards- Innovative ways to make the prognostication services accessible to all the resource constraint population in leukemia.
- Collaborative projects towards improving patient outcomes in hematological malignancies with risk stratification and translation.
- Projects on Survivorship, cancer care and nutritional aspects of hematological malignancies.
- Development of novel 3D models for experimentation of drug and sensitivity assay for rare malignant phenotypes/genotypes in leukemia.

Collaborative Institutes:

1. All India Institute of Medical Sciences, New Delhi
2. Vardhman Mahavir Medical college and Safdarjung Hospital, New Delhi
3. Maulana Azad medical college, New Delhi.
4. National Institute of Biologicals, Noida
5. RML and PGIMER hospital New Delhi
6. SGPGI Hospital, Noida, U.P
7. GTB hospital, New Delhi
8. ICMR-National Institute of Nutrition, Hyderabad

Projects and Publications:

- Our laboratory is primarily focused at working with oncopathogenesis and understanding the prognostic factors associated with hematological malignancies especially those of pediatric and adult AML and chronic myeloid leukemia.
- Our laboratory is also working towards- Innovative ways to make the prognostication services accessible to all the resource constraint population in leukemia-like use of dried blood spots and liquid biopsies.
- Collaborative projects towards improving patient outcomes in hematological malignancies with risk stratification and translation.
- Projects on Survivorship, cancer care and nutritional aspects of hematological malignancies.
- Development of novel 3D models for experimentation of drug and sensitivity assay for rare malignant phenotypes/genotypes in leukemia.

A} Principal Investigator Projects: Present: FIVE:

1) Extra Mural-Medical Innovation fund project “Development of a simple prognostic scoring model IPSS (Integrated Prognostic Scoring System) for newly diagnosed cytogenetically normal acute myeloid leukemia”

Medical Innovation Fund, ICMR- 10 lacs

Collaborative Institutes:

1. All India Institute of Medical Sciences, New Delhi
2. Vardhman Mahavir Medical college and Safdarjung Hospital, New Delhi

2) ICMR Extramural fund- 'Onco-proteome Profiling in drug resistant (chemoresistant) acute lymphoid leukemia by selective inhibition and pathway analysis of PI3K/Akt/mTOR axis'

ICMR-29.95 lacs

Collaborative Institutes:

1. All India Institute of Medical Sciences, New Delhi
2. Vardhman Mahavir Medical college and Safdarjung Hospital, New Delhi

3) **ICMR Extramural fund-** "Identification of novel synergistic inhibitors by studying differences in sensitivity towards pathway regulators and triple inhibitors of PI3K/Akt/mTOR axis in T cell ALL" IRIS ID-2021-9221

ICMR-30.5 Lacs

Collaborative Institutes:

1. All India Institute of Medical Sciences, New Delhi
2. Vardhman Mahavir Medical college and Safdarjung Hospital, New Delhi
3. Maulana Azad medical college, New Delhi.

4) **ICMR Intra Mural fund:**” Performance Evaluation of the droplet digital PCR for deep molecular response for monitoring in BCR-ABL-1 positive malignancies”

Funding-10 Lacs

Collaborative Institutes:

1. All India Institute of Medical Sciences, New Delhi
2. Vardhman Mahavir Medical college and Safdarjung Hospital, New Delhi
3. Maulana Azad medical college, New Delhi.
4. National Institute of Biologicals, Noida
5. RML and PGIMER hospital New Delhi
6. SGPGI Hospital, Noida, U.P
7. GTB hospital, New Delhi

5) **ICMR Intra Mural fund** “Standardization of RNA Extraction from Dried Blood Spots in Leukaemia Samples”.

Funding-10 Lacs

Collaborative Institutes:

1. All India Institute of Medical Sciences, New Delhi
2. Vardhman Mahavir Medical college and Safdarjung Hospital, New Delhi
3. Maulana Azad medical college, New Delhi.
4. National Institute of Biologicals, Noida

5. RML and PGIMER hospital New Delhi
6. SGPGI Hospital, Noida, U.P
7. GTB hospital, New Delhi

Completed Projects:

1) Extra mural Funded Project Role of 2-Hydroxyglutarate as a circulatory biomarker in Gliomas”

ICMR Extramural Fund, ICMR- 15 Lacs

Status: **Co-Investigator**

2) **CHAMPS Pilot project-** International Funding- **Bill and Melinda Gates Foundation-** Titled “A pilot study to determine causes of death in under-five children in a tertiary hospital in India using the MITS technique.”

15 Crore aggregate funding, Institute funding 5.8 Crore

Status: **Co-Investigator**