Dr. Ravindra Kumar
Scientist D
ICMR-National Institute of Research in Tribal Health
Jabalpur, Madhya Pradesh Pin 482003

Ph: +919098722936
+917999502429
E-mail: ravindra.kum@icmr.gov.in

Assistant Professor,
AcSIR, Uttar Pradesh

AREA OF EXPERTISE: Genetics, Molecular Hematology

QUALIFICATION: M.Sc., Ph.D. (Genetics)

WORK EXPERIENCE

S. NO	Position	Institute	Duration
1	Scientist D	ICMR-National Institute of Research in Tribal Health, Jabalpur	01.07.2024 to current
2	Scientist C	ICMR-National Institute of Research in Tribal Health, Jabalpur	01.09.2020 to 30.06.2024
3	Scientist B	ICMR-National Institute of Research in Tribal Health, Jabalpur	01.03.2017 to 31.08.2020
4	Scientist and Head Central Research Laboratory	Sri Aurobindo Medical College and Postgraduate Institute, Indore	02.07.2012 to 28.02.2017

TEACHING EXPERIENCE

1. Guest faculty for Genetic course in BSc Nursing and MSc Nursing in Sri Aurobindo Institute of Nursing, Indore 2013-2016
2. Guide and trained several senior residents, junior residents, fellows & technicians in their research activities

ADMINISTRATIVE EXPERIENCE

1. Store Incharge, ICMR-NIRTH
2. Nodal Officer: MRHRU, Jheet, Patan
3. IT in-charge, ICMR-NIRTH
4. Information Security officer, ICMR-NIRTH
5. Chairman, Institutional Biosafety Committee, ICMR-NIRTH
6. ICMR Representative, LRAC, MRU, NSCB Medical College
7. Member, Institutional Ethical Committee
8. Member tender finalization
9. Member Secretary E-procurement
10. Member secretary of the technical specification committee of Equipment
11. Member of various selection committees of various permanent and project staff
12. Coordinator of Journal Club

Ph.D. Supervisor: 03, Co-Supervisor: 02

HONORS/AWARDS

1. The Santosh and Arjun Dev Taneja Memorial Award for Excellence 2025 by Thalassemics India and Thalassemia Patient Advocacy Group on 6 July 2025.
2. Awarded as an "Achiever" by Thalassemics India, New Delhi on its 35th year of establishment on 25th April 2023
3. Dr. Dhirendra Nath Das Best paper published award by Indian Society of Hematology and Blood Transfusion presented at Hematocon 2015 conference at Bangalore 5th to 8th Nov 2015.
4. Young Scientist Award under DST-Fast Track Scheme Aug 2012.
5. Research Associate Award by Council of Scientific and Industrial Research (CSIR) March 2012.
6. Travel Grant from the Department of Science and Technology, New Delhi for attending 12th International Conference on Human Genetics held at Montreal Canada 2011.
7. Best oral presentation award in International Conference of Genomic and Biomedical Research organized by Human Genetic Center, Department of Zoology, Gujarat University in Jan 2009.
8. Lectureship Exam (LS-NET) in Dec 2007.
9. Graduate Aptitude Test in Engineering (GATE) in Jan 2007.
10. Junior Research Fellowship Exam (JRF-NET) in June 2007 under UGC Scheme.
11. Junior Research Fellowship Exam (JRF-NET) in Dec 2006 under CSIR Scheme.

PROJECTS UNDERTAKEN

S no.	Title of Project	Funding Agency	Status of Project (Role)	Approved Cost	Duration
1	Genetic Predisposition of Premature Ovarian failure	SERB-DST	Carried out (PI)	1600000.00	Jul 2012 to July 2016
2	Evaluation of paper-based screening test for Sickle cell anemia.	ICMR (Intramural)	Carried out (PI)	200000.00	April 2018 to March 2019
3	Madhya Pradesh Sickle Cell Anemia Control and Treatment Project	Government of Madhya Pradesh	Completed (Co-PI)	461300000.00	April 2018 to March 2020
4	Screening of Hemoglobinopathies in Narshingpur District with special reference to alpha hemoglobin chain variants	ICMR (intramural)	Completed (Co-PI)	800000.00	April 2018-March 2020
5	Evaluating morbidity profile of Sickle Cell Anemia among Indian patients	ICMR (Intramural)	Completed (Co-PI)	3000000.00	Jun 2019 to Jun 2020

6	Community-wide screening for Mtb DNA in sputum samples	ICMR (Intramural)	Completed (PI)	1500000.00	Jan 2020 to Dec 2020
7	A pilot demonstration project for the reduction of tuberculosis in Saharia tribe (5/85/36/ITRC/Saharia-TB/2021/ECD-I/)	ICMR, New Delhi	Completed (PI)	77.23 Lakhs	Oct 2021 to April 2023
8	Establishment of Center of Excellence in SCD	NHM, Bhopal	Being pursued (PI)	88.85 Lakhs	June 2022 to Dec 2024
9	To study the dynamics of sickling inside blood capillary mimicking microfluidics system to fabricate a portable point-of-care electronic device for the detection of sickle cell disease (56/4/2020/Hae/BMS)	ICMR, New Delhi	Being pursued (Site PI)	31.41 Lakhs	Jan 2022 to Jan 2025
10	Mission Program on Pediatric Rare Genetic Disorders (BT/PR45460/MED/12/952/2022)	DBT, New Delhi	Being Pursued (Site PI)	8815.56 Lakhs PI funding: 105.808 Lakhs	March 2022 to March 2027
11	General health screening with special focus on Anemia, Haemoglobinopathies Malnutrition and Tuberculosis, and Ayurvedic Interventions for better health outcomes in students of Ekalavya Residential Model Schools (EMRS) HQ-PROJ011/1/2024-PROJ	CCRAS, New Delhi	PI	1740.40 Lakhs	March 2024 to March 2026
12	Optimizing strategies for enhancing Sickle Cell Disease management in tribal population: A multi-centric implementation research 12012/09/2023-HR (MRHRU)	DHR, New Delhi	Site PI	83 lakhs	April 2024 to March 2026
13	Implementation Research for optimizing the comprehensive Sickle Cell Anemia (SCA) care services under the National SCA Elimination Mission 51/08/2024/NCD/HB/NIRTH	ICMR, New Delhi	PI	245.91 Lakhs	Oct 2024 to Oct 2026
14	Improving Detection of Postpartum Hemorrhage: A Cluster Non-Randomized Trial comparing Calibrated Drapes with Visual Estimation for post-partum blood loss estimation DevRes/CSTU/Intent/Drape study/2025-2026	ICMR, New Delhi (NHRP Grant)	PI	11.56 Lakhs	April 2026

15	Screening of Pregnant women and newborns in Aspirational District (UMMID) BT/PR 40848/MED/12/905/2021	DBT, New Delhi	PI		
15	Psychological burden of COVID-19 in population of Jheet.	MRHRU, Jheet	Co-I		
	Prevalence of Metabolic Syndrome in Tribal & Non-Tribal area of C.G.	MRHRU, Jheet	Co-I		
16	Epidemiology and Co-morbidity in Chronic Kidney Disease (CKD) dominated area Supebada village of Devbhog block and Manpur Block in Gariyaband District.	MRHRU, Jheet	Co-I		

INVITED SPEAKER

1. Invited Speaker on Hands-on Training Workshop on National Sickle Cell Anemia Elimination Mission. organized by ICMR-RMRC Sri Vijay Puram on 12 March 2026
2. Invited speaker Hemoglobinopathy Conclave: State level Consultation Meeting 2026 organised by Kash Foundation on 19 Feb 2026
3. Brainstorming meeting on Genetic Variability of Sickle Cell Disease in India, organized by ICMR-RMRC Sri Vijay Puram 28 to 29 Jan 2026.
4. Invited speaker in Awareness Talk on SCD at Global Nursing College on 16 Jan 2026
5. Invited Speaker in CME on Sickle Cell Disease, Dindori Hospital, Dindori on 13 Dec 2025
6. Awareness talk on Sickle Cell Disease in the Refresher Course on Information and Communication Technology organized by Home Science College, RDVV, Jabalpur on 21 July 2025.
7. Awareness Talk at Composite Regional Center for Skill Development and empowerment of persons with Disability, Jabalpur on 19 June 2025
8. Invited speaker at 10th annual conference on BGCI from 4 to 6 July 2025 at Ranchi.
9. Observing International Thalassemia Day on 8 May at Sardar Patel University, Balaghat on 8 May 2025.
10. MP-PEDICON 2024 Organized by NSCB Medical College, Jabalpur from 21 to 22 Dec 2024.
11. Unmukt National conference on sickle cell disease organized by NASCO on 26 and 27 Sept 2024
12. 2nd National Thalassemia & Sickle Cell Conference organized by Thalassemia Jan Jagran Samiti M.P. on 24 and 25 Aug 2024
13. Webinar on Thalassemia organized by FOGSI on 8 May 2024
14. Awareness Program and CPD on Thalassemia and Hemoglobinopathies organized by Nizam's Institute of Medical Sciences and Center for DNA Fingerprinting and Diagnostics on 4 May 2024
15. National CME on Rare Disease "For the Rare-Please Take Care" organized by AIIMS, Bhopal on 30 Sept 2023

16. Brainstorming event on Exploring the Healing Hertiage: Unveiling the scope of traditional tribal medicines in central India. The current landscape, unmet needs and future directions. Organized by AIIMS Bhopal on 25 July 2023
17. Panel Discussion on Holistic Management of Sickle Cell Disease organized by NHM, Bhopal and Mandla District on 19 June 2023, World Sickle Cell day 2023
18. Keynote speaker on National webinar on thalassemia organized by Kaptipada Degree College, Mayurbhanj, Orissa on 8th May 2023.
19. 3rd Central India Lab technocrats CME 2023, organized by Jabalpur Association of Pathologists and Microbiologists and Department of pathology, NSCB Medical College, Jabalpur on 26 and 27 Feb 2023
20. National Conclave on "Science & Technology Empowerment of Tribal Community" at Guwahati, organized by DST, New Delhi and MoTA, New Delhi on 11 and 12 Nov 2022
21. Brainstorming meeting of clinical trial of gene therapy in SCD at Raipur organized by CSIR-IGIB, New Delhi on 22 and 23 May 2022
22. Chaired a session in Madhya Pradesh PhD Colloquium, 2022 at Bhopal organized by AIGGPA on 28 and 29 April 2022
23. Webinar on Reimagining SCD in India: Expert Conclave - Friday 18th June 2021 organized by National Cancer Society & Manage Health Foundation.
24. 2nd Central India Lab technocrats CME 2020, organized by Jabalpur Association of Pathologists and Microbiologists and Department of pathology, NSCB Medical College, Jabalpur on 22nd and 23rd Feb 2020
25. National workshop on Thalassemia and Blood Donation, Organized by Disha Welfare Society, Jabalpur on 22nd Sept 2019
26. CME for laboratory Technocrats organized by Jabalpur Association of Pathologists and Microbiologists and Department of pathology, NSCB Medical College, Jabalpur on 2nd and 3rd Feb 2019
27. Workshop on Sickle cell disorder organized by Govt. Homeopathic Medical College and Hospital, Bhopal on 21st and 22nd Dec 2018
28. Brainstorming session on "Consultation on Sickle Cell Anemia" on 17th and 18th Aug 2018 at Khargone, M.P.
29. IAMGCON 2015 organized by Department of Pediatrics, AIIMS Jodhpur and MCH and MDN Center, SN Medical College Jodhpur 11-13th December 2015
30. Thalassemia CME 2015 Organized by Department of Pathology, Darbhanga Medical College 5th April 2015
31. DNA Diagnostics 2015 organized by PGIMER, Chandigarh 5-8th Feb 2015
32. One day symposium on Human Genetic Disorders: A Medical and Social Concern organized by Shree Ramkrishna Institute of Computer Education and Applied Sciences, Surat on 17th Oct 2014
33. Frontiers in Medical Genetics and Hand's on workshop DNA Diagnostics 2013. Organized by Department of Medical Genetics, SGPGIMS, Lucknow 28th -30th Nov 2013.

PUBLICATIONS

1. Khan N, Jonnalagadda M, Kumar R, Das A. NAT2 Acetylation Phenotypes in India: A Narrative Review of Personalized TB Therapy. Pharmgenomics Pers Med.

2026;19:568037. doi: 10.2147/PGPM.S568037. PMID: 41836751; PMCID: PMC12988756. IF: 1.8

2. Kumar R, Malik G, Roy S, Sahay S, Khan AM, Das A, Rani R, Singh M, Team Sheopur Assessing the acceptability and feasibility of using hand-held X-ray device for tuberculosis screening in high TB burden rural and tribal settings - a mixed-methods study. 2026. doi: 10.1016/j.ijtb.2026.02.010
3. Khan N, Das A, Kumar R, Jonnalagadda M. Comparative evolutionary and structural bioinformatic analysis of the human N-Acetyltransferase-2 (NAT2) gene with different mammalian and avian taxa. BMC Genomics. 2026;27(1):143. doi: 10.1186/s12864-025-12489-7. PMID: 41495641; PMCID: PMC12870744. IF:3.7
4. Rehman T, Mitra S, Gawit KG, Kumar R, Dutta S, Pattanaik AA, Majhee L, Anand T, Madkaikar M, Pati S. Continuum of care after newborn screening for sickle cell disease: Multinational evidence from a systematic review and meta-analysis. Br J Haematol. 2026 Jan 13. doi: 10.1111/bjh.70319. Epub ahead of print. PMID: 41531167. IF: 3.9
5. Nagisetty S, Shrivastava S, Kumar R. Undernutrition status among tribal children of India-a systematic review & meta-analysis. J Public Health (Oxf). 2026 Jan 8:fdaf164. doi: 10.1093/pubmed/fdaf164. Epub ahead of print. PMID: 41504381. IF: 3.1
6. Kumari N, Kumar R, Patro IK, Das A. Association of HLA class I allele and tuberculosis susceptibility: a systematic review and meta-analysis. Sci Rep. 2025 Dec 9;16(1):1578. doi: 10.1038/s41598-025-31012-2. PMID: 41361354; PMCID: PMC12800256 IF: 3.9
7. Gupta P, Asati P, Tiwari A, Kumar R. Association of cell adhesion molecules levels & single nucleotide polymorphisms with vaso-occlusive crisis in sickle cell disease: A cross sectional study. Indian J Med Res. 2025 Sep;162(3):389-398. doi: 10.25259/IJMR_406_2025. PMID: 41296579. IF: 2.5
8. Gupta P, Patel B, Tiwari A, Asati P, Kumar R. Association of cell adhesion molecules with Vaso-occlusive crisis in sickle cell disease. Biomarkers. 2025 Nov;30(7):470-476. doi: 10.1080/1354750X.2025.2586746. Epub 2025 Nov 26. PMID: 41206783..IF: 1.9
9. Gupta P, Kumar R, Niranjan R. miRNA in Diagnosis and Therapeutics of Tuberculosis: Importance in Latent and Brain Associated Pathologies. Curr Pharm Des. 2025 Jul 11. doi: 10.2174/0113816128362931250619113617. Epub ahead of print. PMID: 40660430. IF: 2.8
10. Ghate JR, Gulati A, Mishra A, Nanda R, Pandit V, Chandraker SK, Shrivastava S, Kumar R. Association of socio-demographic and dietary factors for metabolic syndrome: A comparative study among tribal and non-tribal population. *Clinical Epidemiology and Global Health*. 2025;34:102087. doi: 10.1016/j.cegh.2025.102087. IF: 2.3
11. Jain D, Seth T, Udupi S, Jain S, Bhatwadekar S, Menon N, Jena R, Kumar R, Parmar B, Goel A, Vasava A, Dutta A, Samal P, Ballikar R, Bhat D, Dolai TK, Bhattacharyya J, Shetty D, Mistry M, Ray S. Socioeconomic health and impact of sickle cell disease and vaso-occlusive crises in India: results from B-VOCAL study. *BMJ Glob Health*. 2025 May 22;10(5):e017887. doi: 10.1136/bmjgh-2024-017887. PMID: 40409759. IF: 7.1
12. Tiwari A, Rao E, Suresh I, Tiwari M, Kumar R. Hepatobiliary Manifestations in Thalassemia Patients: A Narrative Review. *Hemoglobin 2025;*49(3):200–207. doi: 10.1080/03630269.2025.2493946. PMID: 40289769. IF: 1.2
13. Gahwai D, Dayama S, Mishra A, Chandraker SK, Sahu B, Sharma M, Kumar R. Food scarcity and decrease in income are associated with depression after COVID-19 pandemic in rural settings. *Front Public Health*. 2025;13:1526300. doi: 10.3389/fpubh.2025.1526300. PMID: 40241959; PMCID: PMC12002032. IF: 3.0
14. Gupta P, Kumar R. MicroRNAs in sickle cell disease: A comprehensive review. Gene. 2025;957:149470. doi: 10.1016/j.gene.2025.149470. PMID: 40187617. IF: 2.6
15. Gupta P, Shrivastava S, Kumar R. Musculoskeletal complications in sickle cell disease: Pathophysiology, diagnosis and management. *Best Pract Res Clin Rheumatol*. 2025 May;39(2):102033. doi: 10.1016/j.berh.2025.102033. PMID: 39824706. IF: 4.5

16. Nambison NKM, Dwivedi AD, Kumar S, Goel G, Prasad P, Singh G, Rajasubramaniam S, Kumar R. Population-based Research in AYUSH: Lessons from Study among Particularly Vulnerable Tribal Groups to Determine Burden of Sickle Cell Disorders. *Journal of Applied Sciences and Clinical Practice.* 2024;5(3):138-144.
17. Seth T, Udupi S, Jain S, Bhatwadekar S, Menon N, Jena RK, Kumar R, Ray S, Parmar B, Goel AK, Vasava A, Dutta A, Samal P, Ballikar R, Bhat D, Dolai TK, Bhattacharyya J, Shetty D, Mistry M, Jain D. Burden of vaso-occlusive crisis, its management and impact on quality of life of Indian sickle cell disease patients. *Br J Haematol*. 2025 Jan;206(1):296-309. doi: 10.1111/bjh.19829. Epub 2024 Oct 28. PMID: 39463175; PMCID: PMC11739767. IF: 5.2
18. Gupta P, Kumar R. Targeting ICAM1 to Ameliorate Vaso-Occlusion and Inflammation in Sickle Cell Disease. *Eur J Haematol*. 2024 Dec;113(6):730-737. doi: 10.1111/ejh.14313. Epub 2024 Oct 1. PMID: 39354752. IF: 2.3
19. Rao E, Patel D, Saxena N, Saha KB, Kumar R. Ameliorating Mental Health Issues in Sickle Cell Disease Patients: A Viewpoint. *Hemoglobin*. 2024;48(3):212-213. doi: 10.1080/03630269.2024.2356607. Epub 2024 Sep 27. PMID: 39329378. IF: 1.2
20. Sondhiya G, Manjunathachar HV, Singh P, Kumar R. Unveiling the burden of scrub typhus in acute febrile illness cases across India: A systematic review & meta-analysis. Indian J Med Res. 2024;159(6):601-618. doi: 10.25259/ijmr_1442_23. PMID: 39382463; PMCID: PMC11463856.IF: 2.7
21. Gupta P, Choudhari V, Kumar R. Exploring the genetic mechanisms: SELP gene's contribution to alleviating vaso-occlusive crisis in sickle cell disease. Gene. 2024;928:148805. doi: 10.1016/j.gene.2024.148805. PMID: 39079562. IF: 2.6
22. Gupta P, Kumar R. Nitric oxide: A potential etiological agent for vaso-occlusive crises in sickle cell disease. Nitric Oxide. 2024. S1089-8603(24)00017-X. doi: 10.1016/j.niox.2024.01.008. Epub ahead of print. PMID: 38316197. IF: 3.9
23. Patel D, Kumar R. Community health workers in India should be trained to offer genetic counselling for rare diseases. Nat Med. 2024 Feb;30(2):319. doi: 10.1038/s41591-023-02748-z. PMID: 38200260. IF: 82.9
24. Rao E, Chandraker SK, Singh MM, Kumar R. Global distribution of β-thalassemia mutations: An Update. Gene. 2023 Nov 23:148022. doi: 10.1016/j.gene.2023.148022. Epub ahead of print. PMID: 38007159. IF: 3.5
25. Gupta P, Singh P, Das A, Kumar R. Determinants of tuberculosis: an example of high tuberculosis burden in the Saharia tribe. *Front Public Health.* 2023;11:1226980. doi: 10.3389/fpubh.2023.1226980. PMID: 37920577; PMCID: PMC10619692. IF: 5.2
26. Singh MPSS, Kumar R, Patel P, Uikey R, Mun A, Shanmugam R. Hemoglobinopathies Among Patients Referred to Single Centre in Central India: An Observational Study. Indian J Clin Biochem. 2025;40(1):121-126. doi: 10.1007/s12291-023-01151-2. Epub 2023 Sep 21. PMID: 39835230; PMCID: PMC11741957. IF: 2.1
27. Narayan A, Shrivastava V, Kumar R. Excerpt of Symposium on Sickle Cell Disease in India. *Current Science*. 2023;125(7):715-7. IF: 1.169
28. Gupta P, Kumar R. GTP cyclohydroxylase1 (GCH1): Role in neurodegenerative diseases. Gene. 2023;888:147749. doi: 10.1016/j.gene.2023.147749. PMID: 37652170. IF: 3.5
29. Kumar R, Chandraker SK, Das A. Controlling Sickle Cell Disease: The need of the hour. *Clinical Epidemiology and Global Health.* 2023;21:101302. doi: 10.1016/j.cegh.2023.101302. IF 2.6
30. Srivastava S, Kumar R. Is hyperleptinemia associated with gallstone disease? A systematic review and meta-analysis. Indian J Gastroenterol. 2023 Jun;42(3):324-331. doi: 10.1007/s12664-022-01332-6. Epub 2023 May 29. PMID: 37247176. IF: 2.00
31. Shrivastava S, Kumar R, Khan S, Kavishwar A, Gupta A, Kaur H, Das M, Sharma R, Chakma T. Health profile of people living in the Gare Palma mining area of Tamnar block, Raigarh, Chhattisgarh, India. Front Public Health. 2023 Mar 21;11:1010025. doi:

10.3389/fpubh.2023.1010025. PMID: 37026149; PMCID: PMC10072258. IF 6.461
32. Shrivastava S, Kumar R, Shandil N, Saha KB, Das A. Letter: A Pilot Health and Nutritional Assessment of Tribes Living in a High Altitude District of Himachal Pradesh, India. *High Alt Med Biol*. 2023 Mar;24(1):79-80. doi: 10.1089/ham.2022.0110. Epub 2022 Dec 13. PMID: 36516111. IF: 2.183
33. Chandraker SK, Kumar R. Biogenic biocompatible silver nanoparticles: a promising antibacterial agent. Biotechnol Genet Eng Rev. 2024 Dec;40(4):3113-3147. doi: 10.1080/02648725.2022.2106084. Epub 2022 Aug 2. PMID: 35915981. IF 4.20
34. Kumar R, Rajasubramaniam S, Das A. Sickle cell disease in India: Prevention-driven social and public health implications. *Clinical Epidemiology and Global Health*. 2022;15: 101047. doi: 10.1016/j.cegh.2022.101047. IF:2.6
35. Kumar R. Neglecting borderline HbA2 (3.2–3.9%) may impede prevention program for thalassemia. *Clinical Epidemiology and Global Health*. 2022;13: 100964. doi: 10.1016/j.cegh.2022.100964. IF:2.6
36. Dixit N, Shaw CK, Varshney GA, Kumar R, Saini PA, Verma P. Endocrinal Complications in Children and Adolescents with Thalassemia Major in Central India: An Observational Study. *Indian J Pediatr*. 2022;89(10):983-988. doi: 10.1007/s12098-021-03883-6. Epub 2021 Sep 4. PMID: 34480715. IF: 5.319
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38. Kumar R, Das A. The Potential of mHealth as a Game Changer for the Management of Sickle Cell Disease in India. *JMIR Mhealth Uhealth*. 2021 Apr 13;9(4):e25496. doi: 10.2196/25496. PMID: 33847598. IF: 4.31
39. Kumar R, Mishra S, Gwal A, Shanmugam R. Evaluation of Paper-Based Point of Care Screening Test for Sickle Cell Disease. *Indian J Clin Biochem*. 2022 Apr;37(2):185-191. doi: 10.1007/s12291-021-00962-5. Epub 2021 Feb 8. PMID: 35463103; PMCID: PMC8993980.
40. Kumar R, Yadav R, Mishra S, Singh MPSS, Gwal A, Bharti PK, Rajasubramaniam S. Krüppel-like factor 1 (KLF1) gene single nucleotide polymorphisms in sickle cell disease and its association with disease-related morbidities. *Ann Hematol*. 2021 Feb;100(2):365-373. doi: 10.1007/s00277-020-04381-z PMID: 33388857. IF: 3.673
41. Kumar R, Mishra S, Shrivastava S. A meta-analysis of endothelial nitric oxide synthase gene T786C polymorphism as a risk factor for acute chest syndrome in sickle cell disease. *Meta Gene.* 2021; 27: 100827. doi: 10.1016/j.mgene.2020.100827.
42. Kumar R, Mishra S, Uikey RS, Gwal A, Mun A, Bharti PK, Shanmugam R. De novo heterozygous Hb G-Waimanalo (α64(E13)Asp>Asn, CTG>CCG; HBA1:c.193G>A) variant in a sickle cell disease patient of an Indian tribe. J Clin Pathol. 2021 May;74(5):336-338. doi: 10.1136/jclinpath-2020-206589. Epub 2020 Aug 19. PMID: 32817264.IF: 3.411
43. Manjunathachar HV, Barde PV, Raut CG, Tiwari P, Chouksey V, Gowda K, Kumar R, Das A. Determination of cut-off of diagnostic ELISA for Scrub typhus in endemic setup: Central India. *J Vector Borne Dis*. 2021 Jan-Mar;58(1):90-93. doi: 10.4103/0972-9062.316272. PMID: 34818869. IF: 1.688
44. Chourasia S, Kumar R, Singh MPSS, Vishwakarma C, Gupta AK, Shanmugam R. High Prevalence of Anemia and Inherited Hemoglobin Disorders in Tribal Populations of Madhya Pradesh State, India. *Hemoglobin.* 2020 Nov;44(6):391-396. doi: 10.1080/03630269.2020.1848859. PMID: 33222570. IF: 0.526
45. Manjunathachar HV, Singh KN, Chouksey V, Kumar R, Sharma RK, Barde PV. Manjunathachar HV, Singh KN, Chouksey V, Kumar R, Sharma RK, Barde PV. Prevalence of torch infections and its associated poor outcome in high-risk pregnant women of Central India: Time to think for prevention strategies. Indian J Med Microbiol. 2020 Jul-

Dec;38(3 & 4):379-384. doi: 10.4103/ijmm.IJMM_20_136. PMID: 33154250. IF: 0.900
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48. Kumar R, Patel P, Gwal A, Bharti PK, Colah R, Rajasubramaniam S. Clinico-Hematological Presentation of Rare Hemoglobin Variant (HB-O Indonesia) in 3 Families. *Indian J Hematol Blood Transfus.* 2019 Jul;35(3):596-598. doi: 10.1007/s12288-019-01125-6. Epub 2019 Apr 17. PMID: 31388286; PMCID: PMC6646446. IF: 1.615
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ABSTRACT PRESENTED

1. Kumar R. Clinical and Molecular Characterization of Pediatric Rare Genetic Disorders: Findings of Mission Program on Pediatric Rare Genetic Disorders. ISHG2026 at PGIMER Chandigarh 05 Feb to 7 Feb 2026
2. Presented an oral presentation on the Association of Serum Cell Adhesion Molecules with Pain Episodes in Sickle Cell Disease Patients. 5th Global Congress on Sickle Cell Disease. Organized by the Global Sickle Cell Disease Network in Nigeria from 3 to 6 June 2025 (presented online)
3. Kumar R, Sahu B, Yadav R, Shanmugam R. Geographical and Ethnic Distribution of Sickle Cell Disease in Madhya Pradesh and Chhattisgarh States of India. Hemasphere. 2022 Aug 16;6(Suppl):38-39. doi: 10.1097/01.HS9.0000873068.25646.e9. PMCID: PMC9429857
4. Ravindra Kumar, Aparup Das. Point of Care diagnostic tools for screening of Sickle Cell Disease. 63rd Annual Conference of Indian Society of Hematology & Blood Transfusion (ISHBT) November 2022. Indian J Hematol Blood Transfus 38 (Suppl 1), 1–152 (2022). https://doi.org/10.1007/s12288-022-01605-2
5. Ravindra Kumar, Purshottam Patel, Anil Gwal, Subash Godbole, Praveen Bharti, S Rajasubramaniam. A rare Hb variant Hemoglobin O Indonesia. Hematocon 2017, Guwahati 2017.
6. Ravindra Kumar, Mable Misha Singh, Sarita Agarwal. OPG/RANK/RANKL genes as a surrogate marker for cardiac abnormality in Thalassemia major patients. Hematocon 2016, Jaipur 2016.
7. Shweta Singh, Ravindra Kumar, Gourdas Choudhuri, Sarita Agarwal. SPINK1/PSTI Polymorphism in Tropical Chronic Pancreatitis: A case control study. Biotech 2012 "Current Advances in Biotechnology and Medicine" New Delhi 2012
8. Ravindra Kumar, Sarita Agarwal. Molecular characterization of thalassemia: Effect of Alpha gene Number on phenotype. 12th International Congress of Human Genetics and 61st Annual Meeting of the American Society of Human Genetics Montreal Canada 2011
9. Ravindra Kumar, Sarita Agarwal. Influence of Gγ –158 C-T globin gene polymorphisms on HbF levels and phenotype of thalassemia intermedia patients of North India. International Conference on "Genomics, Genetic Diseases and Diagnostics" and XXXVI Annual Conference of The Indian Society of Human Genetics. Manipal 2011
10. Ravindra Kumar, Sarita Agarwal. Microcytic hypochromic anemia: genotyping approach. U.P. Chapter IAPM annual conference and workshops, Lucknow 2009
11. Ravindra Kumar, Shubha R Phadke and Sarita Agarwal. "Role of alpha gene triplication in causation of Cholelithiasis in beta thalassemia?" 4th International conference on Thalassemia. New Delhi 2009

12. Ravindra Kumar, Ashwin Dalal, Parag Tamhankar, Shubha Phadke, Sarita Agarwal: Three novel mutations causing beta thalassemia in Asian Indian population: International conference on genomic and Biomedical research Gujarat University, Gujarat 2009
13. Ravindra Kumar, Shubha Phadke, Mandakini Pradhan, Usha Gupta, Sarita Agarwal: Complications encountered in thalassemic patients management : 18 year follow up study: XXXIII Annual Conference of the ISHG and International symposium on Genetics Revisited: the genomics and Proteomics Advantage, Andhra University 2008

CONFERENCE/CME/SEMINAR ORGANIZED

1. Organized Brainstorming Meeting for the setting of the clinical severity score for sickle cell disease on 16 and 17 March 2026
2. Organized a training for CHO on the management of Sickle Cell Disease at District Hospital, Durg on 20 Feb 2026
3. Workshop on Management of Sickle Cell Disease on 16 Jan 2025
4. Co-organized three-day workshop on Application of Biostatistics in Medical Research 12 to 14 June 2024
5. Workshop on Diagnosis of Thalassemia and Inherited Blood Disorders on 8 May 2024
6. Webinar on Rare Genetic Disorders on 29 Feb 2024
7. State Level SCD Conference Madhya Pradesh on 3 Jan 2024 jointly organized by NASCO and NHM Bhopal.
8. Symposium on Sickle Cell Disease in India on 22 and 23 Feb 2023
9. Conference on Holistic Management of Sickle Cell Disease on World Sickle Cell Day, 19 Jun 2022
10. Webinar on "Sickle Cell Disease: Global Perspective and Indian Scenario" on World Sickle Cell Day, 19 June 2021
11. Hands on Training program for pathologists and technician on "Screening and diagnosis of hemoglobinopathies". March 2020 at ICMR-NIRTH, Jabalpur
12. Hands on Training program for pathologists and technician on "Screening and diagnosis of hemoglobinopathies". August and September 2019 at ICMR-NIRTH, Jabalpur
13. Orientation Program for CMO/CMHO/BMO on Hemoglobinopathies, Diagnosis, Prevention and management. September 2018 at ICMR-NIRTH, Jabalpur
14. One Day Seminar on Organization and Ethics of Biomedical Research Publications on 1st Jun 2018 at ICMR-NIRTH, Jabalpur
15. One Day CME on Thalassemia on 8th May 2016 at Sri Aurobindo Medical College and Post Graduate Institute, Indore
16. One Day CME on Frontiers in Management of Thalassemia at Sri Aurobindo Medical College and Post Graduate Institute, Indore on 31st August 2014 with 2 CME credits by Madhya Pradesh Medical Council
17. Five-day hands-on workshop and symposium on advanced laboratory practice in Molecular and Forensic Medicine from 16th -20th 2013 at Sri Aurobindo Medical College and Post Graduate Institute, Indore

CONFERENCE/WORKSHOP/TRAINING ATTENDED

1. Mid-Level Carrier Development Program at IIMV from 8 to 20 Sept 2025.
2. Participated in 9th annual conference of Indian Society of Medical Genetics from 5 Dec to 9 Dec 2024
3. Completed 8-week online certification on "Health Research Fundamentals" organized by ICMR-NIE. Jan-Mar 2021
4. Participated in Hands on workshop on "Next Generation Sequencing data analysis for clinical diagnostics" organized by CDFD, Hyderabad. 1-5 March 2021
5. Attended Sickle update 2020 organized by Vision Medical Foundation for Rural Health and Research. 18 and 19 Jan 2020.
6. Presented a Poster on Fine Mapping of Hemoglobinopathies in Madhya Pradesh in Conference on National Consultation on Tribal Health Research. Organized by DMRC, Jodhpur 8 and 9th Aug 2019.
7. Participated in "Workshop on Systematic Reviews and Meta-analysis" held at ICMR-NIREH, Bhopal 7-9 May 2019.
8. Deliver a lecture on Thalassemia prevention at Govt. Nursing college, Elgin Hospital Campus on 9th May 2018
9. Hematocon 2017. 58th Annual Conference of Indian Society of Hematology and Blood Transfusion. 2nd -5th Nov 2017. Guwahati, Assam
10. Attended the "Training Programme on Policy Brief Writing" at ICMR-NIRTH on 18th Aug 2017
11. Attended workshop on "Working Towards Tribal Health: Present Status and Way Forward" on 16th and 17th Aug 2017 at ICMR-NIRTH.
12. Attended seminar on Policy intervention for the evolving needs of Thalassemics in India' held on 16th Sep 2017 at New Delhi
13. Hematocon 2016. 57th Annual Conference of Indian Society of Hematology and Blood Transfusion. 10-13th Nov 2016. Jaipur
14. IAMGCON 2015 2nd annual conference of Indian Academy of Medical Genetics, AIIMS Jodhpur and MCH and MDN Center, SN Medical College Jodhpur. 11-13th December 2015
15. Hematocon 2015. 56th Annual Conference of Indian Society of Hematology and Blood Transfusion, Bangalore, Karnataka. 5th -8th November 2015
16. Thalassemia CME 2015. Darbhanga Medical College. 5th April 2015
17. DNA Diagnostics 2015. PGIMER, Chandigarh. 5-8th Feb 2015
18. Human Genetic Disorders: A Medical and Social Concern. Shree Ramkrishna Institute of Computer Education and Applied Sciences, Surat, Gujarat. 17th Oct 2014
19. CME on Frontiers in Management of Thalassemia. Sri Aurobindo Medical College and PG Institute, Indore 31st Aug 2014
20. National symposium and Hands on workshop on advanced laboratory practices in Molecular and Forensic Medicine. Sri Aurobindo Medical Institute of Medical Sciences, Indore. 16th -20th December 2013
21. Frontiers in Medical Genetics and Hand's on workshop DNA Diagnostics 2013. SGPGIMS, Lucknow 28th -30th Nov 2013.

22. Hematocon 2013. 54th Annual conference of Indian Society of Hematology and Blood Transfusion. Mumbai. 7th -10th Nov 2013.
23. Biotech 2012 "Current Advances in Biotechnology and Medicine" New Delhi 24th -25th February 2012
24. 12th International Congress of Human Genetics and 61st Annual Meeting of the American Society of Human Genetics Montreal Canada 11th -15th October 2011
25. International Conference on "Genomics, Genetic Diseases and Diagnostics" and XXXVI Annual Conference of The Indian Society of Human Genetics. Manipal Life Science center, Manipal 14th 16th February 2011
26. International symposium on the role of genomics in clinical practice & 35th Annual Conference of the Indian Society of Human Genetics. SGPGIMS, Lucknow. 6th -8th March 2010
27. U.P. Chapter IAPM annual conference and workshops, Era medical College, Lucknow 24th -26th October 2009
28. 4th International conference on Thalassemia. New Delhi 31st October and 1st November 2009
29. One day workshop on Patient's and Health Care Provider's Safety, Sanjay Gandhi Post graduate Institute of Medical Sciences. Lucknow 18th August 2009.
30. International conference on Genomic and Biomedical Research. Gujarat University, Gujarat. 29-31st January 2009
31. 5th SR Naik Memorial Workshop on Computers and Informatics in Medicine, Sanjay Gandhi Post graduate Institute of Medical Sciences, Lucknow, 30-31st August 2008.
32. XXXIII Annual Conference of the ISHG and International symposium on Genetics Revisited: the genomics and Proteomics Advantage, Andhra University, Vishakhapatnam. 11th -13th February 2008.

PAPERS REVIEWED (NAME OF JOURNAL)

1. Blood Reviews
2. Biomedical Research International
3. Journal of Clinical Pathology
4. PlosOne
5. Biotechnology and Genetic Engineering Reviews
6. Disease Markers
7. ejHeam
8. Health Science Reports
9. Case Reports in Obstetrics and Gynecology
10. Journal of Assisted Reproduction and Genetics
11. Mediterranean Journal of Hematology and Infectious Disease
12. Journal of Clinical Diagnostics and Research
13. Gene Report
14. Turkish Journal of Hematology
15. Molecular Neurobiology
16. Experimental and Clinical Endocrinology & Diabetes
17. And many more