

CURRICULUM VITAE

Name: **DR. MANISH RAJ KULSHRESTHA**
MBBS, MD, DNB

Present designation: Professor (Jr. Grade) and Head
Department of Biochemistry
Dr. Ram Manohar Lohia Institute of Medical Sciences
Vibhuti Khand, Gomati Nagar, Lucknow, Uttar Pradesh, 226010, India

Date of Birth: 19-05-1980

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Educational qualifications:

S.No.	Degree/ Certificate	Year	Institution
1	Ex Ed (Clinical Lab Management)	2019	IIM, Ahmedabad
2	DNB	2014	National Board of Examination, New Delhi
3	MD	2011	Christian Medical College, Ludhiana
4	MBBS	2004	Pt JNMMC, Raipur

Professional courses:

S.N.	Course/Seminar/Workshop/Conference	Year	Institution
1	Ex Ed (Clinical Lab Management)	2019	IIM, Ahmedabad
2	Basic Course in Biomedical Research	2020	SWAYAM, NPTEL
3	Basic course in medical education	2024	Dr. RMLIMS, Lucknow
4	CBME	2022	Dr. RMLIMS, Lucknow

Professional experience:

S.No.	Position	Year/Months	Institution
1.	Professor (Junior Grade)	July 2022- Till date	Dr. RMLIMS, Lucknow

2.	Associate Professor	36 months	Dr. RMLIMS, Lucknow
3.	Assistant Professor	48 months	Dr. RMLIMS, Lucknow
4.	Assistant Professor	10 months	MIMS, Indore
5.	Senior Resident	39 months	PGIMS, Rohtak

Administrative responsibilities:

- **Additional Faculty Incharge, Human Resource** (May 2022 – Present)
- **Member Secretary, IRF** (Aug 2023 – Present)
- **Faculty Incharge, Sample Collection** (2022 – Present)
- **Member Secretary, Hospital Charge Committee** (Mar 2022 – Present)
- **Member, Emergency Management Committee** (May 2022 – Present)
- **Member, IQAC Committee** (2022 – Present)
- **Member, Printing & Stationery Purchase Committee** (Jan 2024 – Present)
- **UFM Committee:** Atal Bihari Vajpayee Medical University, Lucknow (Jan 2025- Present)
- **Member, Library Committee** (2023 – Present)
- **Member Secretary, Incubation Cell** (2022 – Present)
- **Sub-Dean, PG Cell** (Oct 2020 – Nov 2025)
- **Faculty Incharge, COVID Sample Collection** (July 2022- 23)
- **Nodal Officer, DigiLocker** (2022 – Nov 2025)
- **Nodal Officer, DigiShakti** (Nov 2021 – Nov 2025)
- **Member Secretary, Alumni Cell** (July 2022 — Nov 2025)
- **Member, Website & Web Portal Development Committee** (July 2024 – – Nov 2025)
- **NMC Coordinator** (2016 – 2020)

Awards/Fellowship

- Awarded the ‘**Director’s Merit Award**’ by Shri Yogi Adityanath, Hon’ble Chief Minister of Uttar Pradesh, on the Foundation Day of Dr. RMLIMS, Lucknow (September 13, 2025).
- ‘**Fellowship of International Society for Medical Food & Nutrition**’ (FISMN) by International Society for Medical Food & Nutrition (September 21, 2025).
- Awarded ‘**Academic Excellence Award**’ by Association of Clinical Chemistry and Lab Medicine Practitioners (ACCLMP) UP Chapter. (August 27, 2023)
- ‘**Second Prize in Faculty Oral Presentation**’ by Association of Clinical Chemistry and Lab Medicine Practitioners Conference (ACCLMPCON)-2025 at KGMU, Lucknow (30-31 Jan, 1 Feb 2026).
- Certificate of Appreciation for contribution in the training initiative ‘**Seva me Shrestha: Ek Nayi Pahal**’ of Dr. RMLIMS, Lucknow.
- ‘**First Prize in Oral presentation (Faculty)**’ by Association of Clinical Chemistry and Lab Medicine Practitioners Conference (ACCLMPCON)-2025.
- ‘**State Representative**’ of AMBI 2024, Ahmedabad.
- As ‘**COVID Warrior**’ on doctor’s day at Dr. RMLIMS, Lucknow (July 1, 2022).

Membership of professional societies/bodies/associations

- Ex Ed (Clinical Lab Management), IIM, Ahmedabad.
- Life-Member, Association of Medical Biochemists of India (AMBI).
- Life-member, Association of Clinical Chemistry & Lab Medicine Practitioners (ACCLMP).
- Life-Member, Association of Medical Updated (AMU).
- Life Member, Association of Clinical Biochemist of India (ACBI).
- Life Member, International Society for Medical Food & Nutrition (ISMN).
- Treasurer, Association of Clinical Chemistry & Lab Medicine Practitioners (ACCLMP).

Academics & Professional Roles:

1. Member of External Committees:

UFM Committee: Atal Bihari Vajpayee Medical University, Lucknow

2. Guest Lecture/CME: Delivered Guest /CME Lectures/Speaker at various academic gatherings.

3. Teaching assignments:

- UG and PG (MBBS, PG, DMLT, B.Sc. & other paramedical courses) lectures, Demonstrations and Clinical case
- Postgraduate activities like Seminars, Journal Club and Case Presentation

Supervisor/co-supervisor of PhD, DM, MD, MDS, DNB

(Total-16; PhD-6, DNB-2, DM-3, MD-5)

Supervisor of PhD Thesis

1. “Association of Heavy Metals exposure in relation to Serum Insulin Levels, Insulin sensitivity and Diabetes Mellitus: A case- control Study” (**Ms. Shefali Singh**) registered in 2021 at AKTU, Lucknow.
2. “Evaluating the role of polycyclic aromatic hydrocarbons & Nitrosamine levels, and their possible association with circulatory miRNA-375 in the pathogenesis of type 2 diabetes mellitus”. (Mr Achintya Mani Pandey, Registered in 2025, Dr RMLIMS)
3. “Effects of environmental intoxicants on antioxidant enzyme activity and angiogenic biomarkers in the pathogenesis of hypertensive disorders of pregnancy.” (Ms. Surbhi Singh, Registered in 2025, Dr RMLIMS)

Supervisor of DNB Thesis

4. ‘Evaluation of Role of Nickel Transporter Gene Variations in Pathogenesis of Type 2 Diabetes Mellitus’ **Dr. Bhargawi** (Registered in 2025 at Dr. RMLIMS, Lucknow).

5. 'To study the interplay of organophosphates metabolites, detoxifying gene polymorphism and estimated-glomerular filtration rate in chronic kidney disease with unknown etiology', **Dr. Vijaya Laxmi** (Registered in 2025 at Dr. RMLIMS, Lucknow).

Co-supervisor of PhD Thesis

6. 'Assessment of micro and macronutrient levels among school-going adolescents in Lucknow Metropolitan Community and their relation with dietary behaviour and patterns' (**Ms. Poonam Tiwari**) registered in 2021 at Amity University, Lucknow.
7. 'To evaluate the role of heavy metals and pesticides in chronic kidney disease: An analytical approach' (**Ms. Juhi Verma**) registered in 2022 at BBDU, Lucknow.

Co-supervisor of DM Thesis

8. **DM (Neurology)** thesis titled 'Estimation of serum biomarkers & Their Correlation with Severity & Outcome in Patients with Acute Ischemic Stroke' submitted in 2018.
9. **DM (Cardiology)** thesis entitled 'Novel Atherosclerotic Risk Markers & Angiographic Profile in young Indian adults with coronary artery disease' submitted in 2023.
10. **DM (Cardiology)** thesis entitled 'Association of Serum Testosterone levels with Angiographic Severity of CAD in middle aged males with stable coronary artery disease' submitted in 2023.

Co-supervisor of MD/MS Thesis

11. **MS (OBG)** thesis entitled 'Vaginal Fluid Creatinine level in patients with premature rupture of membranes' submitted in 2021.
12. **MD (Pathology)** thesis entitled 'Rapid Assessment Of Patients With Acute Chest Pain Using Heart-Type Fatty Acid Binding Protein, High Sensitive Troponin I For Diagnosing Myocardial Infarction' submitted in 2019.
13. **MD** thesis entitled 'Evaluation of VEP and BERA on maintenance hemodialysis patients and non- hemodialysis' registered in 2023.
14. **MD** thesis entitled 'Role of biomarkers in predicting outcome in patients undergoing emergency exploratory laparotomy- A single arm Prospective observational study' registered in 2023.
15. **MD (Pediatrics)** thesis entitled 'To determine the role of non-invasive urinary biomarkers bromo-tyrosine and leukotriene E4 in assessment of levels of asthma control and predicting its flare-up in children' (Dr Nitesh R Gupta) awarded in 2025.

Publications:

[Google Scholar](https://scholar.google.co.in/citations?hl=en&user=oOu3eMYAAAAJ) (<https://scholar.google.co.in/citations?hl=en&user=oOu3eMYAAAAJ>)

[ORCID](#) (0000-0002-5355-4539) - ORCID

(Total 61- Original articles: 60, Book chapter: 6)

Original articles:

1. Singh M, Singh V, Verma J, **Kulshrestha MR***, Tiwari V, Kumar T, Garg J. Enhanced diagnosis accuracy of tuberculous meningitis using mycolic and tuberculostearic acid via advanced mass spectrometry. *J Neurol Sci.* 2025 Dec 15;479:123748. ([Web link](#))
2. Nitesh Gupta R, Krishna Yadav, Sunita Yadav, **Manish Raj Kulshrestha**, Dipti Agarwal, Lalit Takia. Role of Non-Invasive Urinary Biomarkers 3-Bromotyrosine and Leukotriene E4 in the Assessment of Levels of Asthma Control and Predicting Its Flare-up in Children. *Authorea.* May29,2025. DOI: [10.22541/au.174853995.51881787/v1](https://doi.org/10.22541/au.174853995.51881787/v1) ([Web link](#))
3. Nigam V, Singh S, Kulshrestha R, Singh V, **Kulshrestha MR**, Tiwari V. Ionic Calcium Measurement in Blood : A Comparative Analysis of Direct Ion-Selective Electrode Method and Formula-based Predictions. *J Indian Med Assoc* 2025; 123(10): 40-4. ([Web link](#))
4. Chandrakesh Mishra, Shivani Singh, Rupita Kulshrestha, **Manish Raj Kulshrestha**, Rachna. Role of Vitamin A, Iron, Zinc and Copper in Relation to Anemia Severity in Pregnancy. *International Journal of Environmental Sciences*, 11(22):712-718. ([Web link](#))
5. Pathak AK, Agarwal D, Singh S, Kulshrestha R, **Raj Kulshrestha M**, Tiwari V. Impact of Hidden Hunger on Pregnant Women from Underserved Communities and its Role in Anaemia. *Journal of Trace Elements in Medicine and Biology.* 2025 Oct 30:127794. ([Web link](#))
6. Rao N, Shakeb A, Chandra A, **Kulshrestha MR**, Singh A. Symptoms of heat stress predict changes in serum creatinine among rural patients with chronic kidney disease during heatwave conditions in Northern India. *BMC Nephrol.* 2025;26(1):581. ([Web link](#))
7. Nigam K, Verma Y, **Kulshrestha MR**, Singh A, Sanyal S. Single nucleotide polymorphism and expression of P16 gene as a potential biomarker for oral and pre-oral cancer. *Discover Oncology.* 2025 Jul 1;16:1229. ([Web link](#))
8. Verma J, Rao N, **Kulshrestha MR**, Singh S, Singh S, Tiwari V, Sharma MT. Exploring the Association Between Potentially Toxic Elements and Chronic Kidney Disease of Unknown Etiology in Eastern Uttar Pradesh, India. *Biological Trace Element Research.* 2025 Jul 2:1-5.) ([Web link](#))
9. Mishra M, Singh N, Lohiya A, **Kulshrestha M R**. Maternal Dyslipidemia and Its Association With Preterm Birth and Other Adverse Perinatal Outcomes. *Cureus.* 2025 Jun 23;17(6). ([Web link](#))
10. Singh S, Verma J, Gupta N, Pathak AK, Rajput MS, Tiwari V, **Kulshrestha MR***. Association of Arsenic and Nickel with Markers of Insulin Resistance and Beta Cell Dysfunction: A Case–Control Study in Indo Gangetic Plain. *Biological Trace Element Research.* 2025 Mar 25:1-9. ([Web link](#))
11. Singh S, Verma J, **Kulshrestha MR**, Singh A, Srivastava S, Tiwari V. Pyrethroid Levels Amplify Asthma Severity in Children via Elevating Eosinophils, IgE, and Compromising Lung Function. *Indian Journal of Clinical Biochemistry.* 2024 Nov 29:1-0. ([Web link](#))
12. Singh S, Pathak AK, **Kulshrestha MR**, Singh A, Tiwari V, Srivastava S. Independent and interactive effect of trace elements imbalance and TNF- α promoter variants as risk modifiers in pediatric asthma. *Gene Reports.* 2025;39:102179. ([Web link](#))

13. Singh S, Kulshrestha M R, Singh A, Srivastava S, Tiwari V. Elevated White Blood Cell Subsets and Imbalances in Iron, Magnesium, and Vitamin D3 Are Linked To Severity of Pediatric Asthma. *African J Biological Sciences* 2024;6(14):7856-64 ([Web link](#))
14. Dhingra C, Rao N, Singh S, Pathak AK, Tiwari V, **Kulshrestha MR***, Verma J. Comparative Analysis of HbA1c Estimation Using Immunoturbidimetry and High-Pressure Liquid Chromatography Methods in Non-Dialysis Chronic Kidney Disease Patients. *EJIFCC*. 2024;35(3):195. ([Web link](#))
15. **Kulshrestha MR***, Tiwari V, Singh S, Pathak AK. An approach to include the cost of consumables in biochemistry analyzer procurement on the reagent rental model alleviates hidden expenses. *EJIFCC*. 2024;35(3):182. ([Web link](#))
16. Verma J, Rao N, **Kulshrestha MR***, Tiwari V, Sharma MT, Chandra A. Chronic kidney disease from agricultural communities—association and accumulation of hexachlorobenzene, malathion, and parathion pesticides. *Toxicology and Environmental Health Sciences*. 2024 Sep;16(3):299-309. ([Web link](#))
17. Qutubuddin NJ, Tiwar BC, Jha A, Vijay SK, Singh AK, **Kulshreshtha M**, Singh AK. Fibrinogen To Albumin (FAR) Ratio as A Predictor of Severity of Coronary Artery Disease and Short-Term Prognosis in Patients Undergoing Invasive Coronary Angiography. *European Journal of Cardiovascular Medicine* 2024;14:15-21. ([Web link](#))
18. Singh S, Verma J, Gupta N, Pathak AK, Tiwari V, Rajput MS, **Kulshrestha MR***. Interplay of toxic metal levels and endoplasmic reticulum stress gene profile in type 2 diabetes mellitus. *Gene Reports*. 2024;37:102019. ([Web link](#))
19. Singh S, Kulshrestha R, Verma J, Nigam V, **Kulshrestha MR**. Uncovering ovarian reserve: Insights into hormones, lipids, and essential metals. *Indian J Obstet Gynecol Res* 2024;11(2):1-6. ([Web link](#))
20. Singh S, Tiwari V, Nigam V, Kulshrestha R, **Kulshrestha MR**. Anemia profiling in antenatal women at a tertiary care center in northern India: An observational study. *Indian J Obstet Gynecol Res* 2024;11(1):53-57. ([Web link](#))
21. Singh S, **Kulshrestha MR**, Pathak AK, Srivastava S, Singh A, Tiwari V. Transfluthrin is Associated with High Susceptibility to Asthma in Children with Promoter Variants of Beta Chain of High-Affinity Receptor IgE and Tumour Necrosis Factors- α Genes. *Biochemical Genetics*. 2024;62(4):2553-2570. ([Web link](#))
22. Dhanorkar MA, Verma J, **Kulshreshtha MR**, Chandra A, Rao NS. Environmental Risk Factors and Mechanisms of Injury in Chronic Kidney Disease of Unknown Etiology—Fitting the Pieces of the Puzzle. *Indian Journal of Kidney Diseases*. 2023 Jul 1;2(3):67-77. ([Web link](#))
23. Shukla A, Awasthi NP, Sharma P, Tiwari V, Sharma VK, **Raj Kulshrestha M**, Singh P, Husain N. Evaluation of Diagnostic Efficacy of Novel Red Blood Cell Parameters as Potential Screening Test for Detecting Latent Iron Deficiency in Blood Donors. *Indian Journal of Hematology and Blood Transfusion*. 2024;40(1):139-145. ([Web link](#))
24. Vandana T, **Raj KM**, Anumesh P, Shivani S. An Unknown Peak in Hemoglobin Chromatogram associated with Diabetic Markers and Oxygen Saturation in COVID-19 Patients. *Research Journal of Biotechnology Vol.* 2023 Jun;18:6. ([Web link](#))

25. Tiwari P, Srivastava J K, Tiwari V, **Kulshreshtha M R**, Srivastava M, Kanojia S. Efficacy of dietary assessment and anthropometry parameters to evaluate nutritional status of school going adolescents in Lucknow, Uttar Pradesh, India. 2024; DOI:10.48047/AFJBS.6.10.2024.4348-4358 ([Web link](#))
26. Pathak AK, Tiwari V, Kulshreshtha MR, Singh S, Singh S, Singh V. Impact of essential metals on insulin sensitivity and fetuin in obesity-related type 2 diabetes pathogenesis. *J Diabetes Metab Disord* 2023;22(1):703-712. ([Web link](#))
27. Rao NS, Chandra A, **Kulshreshtha M**, Tiwari P, Saran S, Lohiya A. Phosphate intake and removal in predominately vegeterian patients on twice-weekly hemodialysis. *Indian Journal of Nephrology* 2022;32(6):582-587. ([Web link](#))
28. Singh NP, Tiwari V, **Kulshreshtha MR**, Singh S, Vamne A. Relationship between lipid profile and apolipoprotein a1 and apolipoprotein b with cardiovascular disease. *International Journal of Recent Scientific Research* 2022;13(4):978-983.
29. **Kulshreshtha MR***, Raj A, Tiwari V, Chandra S, Tiwari BC, Jha A. Evaluation of Dual Marker Approach using hFABP and hsTnI as alternate of Serial Sampling for the diagnosis of Acute Myocardial Infraction. *eJIFCC* 2022; 33(1):43-55. ([Web link](#))
30. Karoli R, Kulshreshtha MR, Gupta N, Singh M, Singh V, Shakya S. Clinical-epidemiological Profile of Coronavirus Disease 19 Associated Mucomycosis (CAM) and Relation with Zinc and Iron Levels. *J Assoc Physicians India*. 2022;70(2):11-12. ([Web link](#))
31. Bhadra J, Seth S, **Kulshreshtha M**, Dhupper V, Aggarwal H, Sen J. Testosterone and estradiol in men with acute ischemic stroke: A North Indian case control. *Curr J Neurol*. 2021;20(4):202-207. ([Web link](#))
32. Rao NS, Chandra A, Saran S, **Kulshreshtha MR**, Mishra P, Tiwari P. Predialytic versus Intradialytic Nutrition: A Study to Assess Effects on Intradialytic Blood Pressure, Dialysis Adequacy, and Urea Removal. *Blood Purification*. 2021;50(6):823-8. ([Web link](#))
33. Karoli R, Gupta N, Karoli Y, **Kulshreshtha MR**, Tiwari V. Neutrophil Gelatinase-associated Lipocalin (NGAL) as a Marker of Renal Tubular Injury in Metabolic Syndrome Patients with Hyperuricemia. *The Journal of the Association of Physicians of India*. 2022;69(12):11-2. ([Web link](#))
34. Kulshreshtha R, Dahiya K, **Kulshreshtha MR**, Bansal P. To evaluate the effect of asphyxia on cord blood TSH (CBTSH) levels in neonates. *International Journal of Recent Scientific Research* 2021;12(11):43455-58.
35. Kulshreshtha R, Dahiya K, **Kulshreshtha MR**, Bansal P. Diagnostic and Prognostic significance of Ischemia Modified Albumin in Perinatal Asphyxia. *International Journal of Recent Scientific Research*. Nov, 2021. 12(11), 43483-43486. ([Web link](#))
36. Subrat Chandra, **Kulshreshtha MR**, Apurva Raj, Bhuwan Chandra Tiwari. The utility of Heart type Fatty Acid Binding Protein in Acute Myocardial Infarction Patients. *Saudi Journal of Pathology and Microbiology* 2020;5(2):115-120. ([Web link](#))
37. Kalra RK, Kulshreshtha R, **Kulshreshtha MR**. Cord Blood Thyrotropin Versus Anthropological Parameters as predictors of short-term outcome of neonates. *Int. J. Clin. Obstet. Gynaecol*. 2020;4(2):7-11. ([Web link](#))

38. Yadav S, Kulshrestha R, **Kulshrestha MR**, Kalra RK. Derangements of Thyroid Hormones and Hypothalmo-Pituitary-Thyroid (HPT) Axis in Preterm Neonates. *Saudi J Pathol Microbiol* 2020; 5(4): 198-201. ([Web link](#))
39. **Kulshrestha MR**, Kulshrestha R, Kalra RK. The study of relationship between season of delivery and cord blood TSH. *International Journal of Clinical Obstetrics and Gynaecology* 2020;4(2):01-03. ([Web link](#))
40. Kulshrestha R, **Kulshrestha MR**, Kalra RK. The Correlation of C-reactive protein And Phosphate Levels in Cord Blood Samples of Neonates with and without Sepsis. *Sch Int J Obstet Gynecol.* 2020;3(03):67-71. ([Web link](#))
41. Kumari A, Seth S, Chaudhary U, Ghalaut VS, Bansal P, **Kulshrestha MR**. Emerging reproductive hormones perturbations in HIV positive females: *A North Indian study.* *Int.J.Adv.Res.*4(9)-68-73. ([Web link](#))
42. **Kulshrestha MR**, Tiwari V, Tripathi P. Serum Apolipoprotein levels in hypothyroidism. *Saudi Journal of Pathology & Microbiology*, 2019; 4(6): 483-487. ([Web link](#))
43. **Kulshrestha MR**, Tripathi P, Tiwari V. Serum lactate in Acute Myocardial Infarction patients. *International Journal of Clinical Biochemistry and Research.* 2019;6(3);353-55. ([Web link](#))
44. Tripathi P, **Manish Raj Kulshrestha**, Vandana Tiwari,. Serum Lipoprotein (A) in the etiology of Acute Myocardial Infarction. *Saudi Journal of Medicine.* 2019 4(7): 551-53. ([Web link](#))
45. Vikram Singh, Pratima Tripathi, **Manish Raj Kulshrestha**, Vandana Tiwari. An association between body mass index and high sensitivity C-reactive protein concentration in obese persons. *Saudi Journal of Medicine.* 2019
46. Singh A, Kulshrestha AR, Trivedi P, Kulshrestha R, Singh SK, **Kulshrestha MR**. A hospital based screening of cervical carcinoma among women from rural population. *Saudi Journal of Pathology & Microbiology* 2019. ([Web link](#))
47. Nigam V, **Kulshrestha MR**, Kumar A. An evaluation of the serum biomarkers of Endothelial dysfunction in hypertensive and hypercholesterolemic subjects: A case-control study. *Journal of Medical Sciences and clinical Research.* 2018 6(11): 105-9. ([Web link](#))
48. **Kulshrestha MR**, Kulshrestha R. Vitamin D levels in women of reproductive age group- where do we stand? *Indian Journal of Obstetrics and Gynecology Research*, January-March, 2018;5(1):136-138. ([Web link](#))
49. Khanna N, Tiwari V, Kulshrestha D, **Kulshrestha MR**, Maurya PK, Verma SL, Singh AK & Thacker AK. Cognitive decline due to impaired Homocysteine metabolism in adults on antiepileptic Monotherapy: A Prospective Study. *MGM Journal of Medical Sciences.* 2017; 4(4): 171-176 ([Web link](#))
50. Sharma S, Gupta K, Kaur P, Kaur, **Kulshrestha MR**, Aggarwal A. Clinical Profile and subtypes of Glaucoma in Northern India. *Sch. Acad. J. Biosci.*, 2015; 3(9):766-773. ([Web link](#))
51. Bhadra J, Mahor DS, Seth S, Ghalaut VS, Dhupper V, **Kulshrestha MR**. Uric Acid In Men With Acute Stroke. *IJIMS*, 2015;2(5):146-152. ([Web link](#))

52. Estimation of total and ionized magnesium and its correlation with the glycated hemoglobin in newly diagnosed subjects of type 2 Diabetes Mellitus. Madaan H, Agarwal P, Reddy VS, Garg R, Gupta K, Panjeta P, **Kulshrestha M**. *Sch. J. App. Med. Sci.*, 2015; 3(5E):2100-2105. ([Web link](#))
53. Kulshrestha R, Bhadra J, **Kulshrestha MR**, Bansal P, Dokwal S, Dhupper V. Influence Of Maternal Diabetes Mellitus And Maternal Anemia On Cord Blood TSH. *AJMAMS*, 2015;4(1).
54. Dhupper V, Ghalaut VS, **Kulshrestha MR**, Bhadra J, Yadav U, Dharambeer Singh Mahor DS. Evaluation of cystatin C as marker of estimated glomerular filtration rate (eGFR) in different stages of chronic kidney disease (CKD). *Sch. Acad. J. Biosci.*, 2015; 3(4):328-334. ([Web link](#))
55. Dokwal S, Bansal P, Ghalaut VS, Bhadra J, Mahor D, **Kulshrestha MR**. Serum Amylase Levels In Metabolic Syndrome. *AJMAMS*, 2015;4(1).
56. Dokwal S, Ghalaut VS, **Kulshrestha MR**, Bansal P, Ghalaut PS, Dokwal SK. Prognostic Relevance of Tumor Necrosis Factor Alpha (TNF- α) and Beta 2 Microglobulin (B2M) in Chronic Myeloid Leukemia (CML). *Sch. Acad. J. Biosci.*, 2015; 3(3):271-277. ([Web link](#))
57. Dahiya K, **Kulshrestha MR**, Bansal P, Ghalaut VS, Kulshrestha R, Dahiya P, Dhupper V. Evaluation of cord blood ischemia modified albumin in normal pregnancies and pre-eclampsia. *Hypertension in Pregnancy*, 2015; 34(2): 204-208. ([Web link](#))
58. **Kulshrestha MR**, Dokwal S, Kalra RK, Kulshrestha R, Bansal P, Dokwal SK. Seasonal Variations In Cord Blood Thyrotropin. *AJMAMS*, 2014; 3(2). ([Web link](#))
59. Kalra RK, **Kulshrestha MR**, Bansal P, Dokwal S, Kulshrestha R., Preventable Mental Retardation In Newborns: An Indian Perspective. *AJMAMS*, 2014; 3(1). ([Web link](#))
60. **Kulshrestha MR**, Uppal BK, Kalra R, Dahiya K, Kulshrestha R. Neonatal Screening for Aminoaciduria: Can TLC be used as an Affordable Method in Developing Countries? *Sch. J. App. Med. Sci.* 2014; 2(6C):3011-14. ([Web link](#))
61. Bansal P, Ghalaut VS, Sharma TK, Ghalaut PS, Dokwal S, **Kulshrestha MR**, Dahiya K. Status of leptin in MBCR-ABL p210 positive chronic myeloid leukemia patients before and after imatinib therapy: a conflicting scenario. *Clin Lab* 2014;60(11):1845-52. ([Web link](#))

Book chapters:

1. Pahwa MB, Menaka K, **Manish R**. (2021). Monitoring the Effect of Storage Time and Temperature on Serum Clinical Biochemistry Analytes. *Current Advances in Chemistry and Biochemistry Vol. 2*, 66–75. <https://doi.org/10.9734/bpi/cacb/v2/1512F>
2. Singh S, Verma J, Tiwari V, **Kulshrestha MR** (2024). Association of Pesticides with Adolescent Asthma and Bronchial Hyper-reactivity. In: Aditi Singh, Abhisek Nandy (eds) *Lifestyle Diseases in Adolescents: Diseases, Disorders, and Preventive Measures*. 1: 49. <https://doi.org/10.2174/9789815274431124010006>. Bentham Science Publishers.
3. Singh S, **Kulshrestha MR**, Singh A, Tiwari V (2025). A Silent Indoor Threat: The Role of Mosquito Repellent Compounds in Pediatric Asthma Pathogenesis. *Advance in Technology and Science (Pioneering the Future of Industry)*. ISBN(Paperback): 978-93-6581-991-5. Published by Natals Publication.

4. Singh S, **Kulshrestha MR**, Tiwari V (2025). Endoplasmic Reticulum Expression Key Player in Type 2 Diabetes Pathogenesis. Advance in Technology and Science (Pioneering the Future of Industry). 2025. ISBN(Paperback): 978-93-6581-991-5. Published by Natals Publication.
5. Pandey AK, **Kulshrestha MR**, Singh M, Pathak AK, Tiwari V (2025). Application of Flow Cytometry in the Development of New Alternative Model Systems in Biomedical Research. In: Pant A, Khare P, Pandey AK (eds) Flow Cytometry: Applications in Cellular and Molecular Toxicology. Springer, Singapore. https://doi.org/10.1007/978-981-97-9758-5_13.
6. Nigam K, Verma J, **Kulshrestha MR**, Tiwari V, Pathak AK (2025). Xenobiotics Mediated Alterations in DNA Content and Cell Cycle: Flow Cytometry-Based Analysis. In: Pant, A., Khare P, Pandey AK (eds) Flow Cytometry: Applications in Cellular and Molecular Toxicology. Springer, Singapore. https://doi.org/10.1007/978-981-97-9758-5_2.

Research project/grant

(Total: 31; Extramural:10, Intramural: 21)

Ongoing (Extramural)		
SN	Title	Funding Agency
1	Micronutrient deficiencies among Lucknow metropolitan underprivileged school going girls: A nutrigenomic approach to addressing hidden hunger. (As PI)	DHR, ICMR, New Delhi
2	Insecticide Bioaccumulation and Its Interplay with Detoxifying Enzyme, Genetic Variations and DNA Modifications: A Triad Influencing Chronic Kidney Disease of Unknown Etiology. (As PI)	CST, UP
3	To study the role of agrochemicals and genetic polymorphism in agrochemical metabolism enzyme gene in determining the susceptibility of chronic kidney disease of unknown etiology in northern India- a case control study. (As Co-PI)	Indian Society of Nephrology
4	Comparison of jAK2/STAT3 signalling pathway and its expression in central tissue of GDN versus Non-GDN women. (As Co-PI)	Dr Kalpana Singh
5	Assessment of macronutrient and micronutrient levels of school going-adolescents in Lucknow metropolitan community and their relation with ethno-healthy diets and prevalent eating patterns. (As Co-PI)	DHR-ICMR, New Delhi
6	Lead poisoning assessment in Uttar Pradesh. (As Co-PI)	World Bank
7	Isolation and Characterization of Plasma-Derived Pancreatic Beta- Cell Exosomes for Diagnostic Applications in Diabetes. (As Co-PI)	CST, UP
8	Role of Micronutrients (Copper, Zinc and Selenium) and its genes (SLC39A1, MT1A, SOD1, CCL5, SEPP1 and TNF- α) in children with bronchial asthma: A case control study. (As Co-PI)	CST, UP
Completed (Extramural)		
1	A Comparative study of Glycated hemoglobin estimation through immunoturbidity and high-performance liquid chromatography method in non-dialysis chronic kidney disease patients. (Ref No.: ICMR-2022-08151)	ICMR (STS), New Delhi

2	The role of Endoplasmic Reticulum Stress and long Coding RNAs and interplay of their cellular targets in Type 2 Diabetes. (Ref No.: ICMR-2021-12075). (As PI)	ICMR (SRF), New Delhi
Completed (Intramural)		
SN	Title	Funding Agency
1	The correlation of cystatin C, VEGF-A and BDNF levels with Neurological deterioration (END) in acute ischemic stroke patients.	Dr. RMLIMS
2	Association of Cadmium (Cd) and Lead (Pb) exposure in relation to Serum Insulin Levels, Insulin sensitivity and Diabetes Mellitus: A case-control Study.	Dr. RMLIMS
3	Is fetuin –A is a link between obesity and type 2 Diabetes?	Dr. RMLIMS
4	Levels of Serum visfatin and chimerin in polycystic syndrome patients.	Dr. RMLIMS
5	Neutrophil Gelatinase associated lipocalin (N-GAL) as a marker for Renal Tubular injury in metabolic syndrome patients with hyperuricemia.	Dr. RMLIMS
6	Study of Hemoglobin HPLC pattern in Covid patients.	Dr. RMLIMS
7	Clinical -Epidemiological profile of corona virus disease -19 associated Mucomycosis (CAM) and relation with Zinc and Iron Levels.	Dr. RMLIMS
8	Mycolic acid levels and tuberculostearic acid levels in Cerebrospinal fluid of patients with tubercular meningitis and bacterial meningitis using mass spectrometry and diagnostic utility of the same in differentiating them: A Pilot Study.	Dr. RMLIMS
9	Study of Heavy metal levels (Lead/Cadmium/Mercury/Arsenic/Nickel/Antimony) patients with coronary artery disease (CAD) and its relation with angiographic severity.	Dr. RMLIMS
10	Fibrinogen-to-Albumin ratio as a predictor of severity of Coronary Artery Disease and Short-Term prognosis in patients undergoing invasive Coronary Angiography.	Dr. RMLIMS
11	Role of Metallothionein and Divalent Metal Transporter Genes for Toxic Metals Sensitivity: A Inter-Relationship Study among Chronic Kidney Disease.	Dr. RMLIMS
12	Association of Serum Testosterone levels with angiographic severity of CAD in middle aged males with stable coronary artery disease.	Dr. RMLIMS
13	Efficacy of New Biomarkers for early detection of Acute injury in surgical patients.	Dr. RMLIMS
14	Genome- Wide Transcriptomic Landscape of lncRNAs-mRNAs Network and Their Relation With Insulin Resistance: Insight into Potential Role in Type 2 Diabetes Mellitus Pathogenesis: A Pilot Study.	Dr. RMLIMS
15	Role of Repressor Element-1 Silencing Transcription Factor (REST) in the Regulation of Pathogenic Proteins (tau and amyloid- β) in Astrocyte Derived Blood Extracellular Vesicles in Pathogenesis of Alzheimer's Disease.	Dr. RMLIMS
16	CSF and Blood Inflammatory Markers (TNF- α , IFN- γ , IL-6) in Patients of Tubercular Meningitis with Paradoxical Reaction.	Dr. RMLIMS
17	The association of Kidney tubular Clearance of Secretory Solutes with a fall in estimated glomerular filtration rate in chronic kidney disease: KICSS study.	Dr. RMLIMS

18	To assess spectrum of multi-system inflammatory syndrome associated with COVID-19 in children.	Dr. RMLIMS
19	To study the association of cardiac autonomic functions with sex hormones among perimenopausal women.	Dr. RMLIMS
Ongoing (Intramural)		
SN	Title	Funding Agency
1	To compare the Immunogenicity of Tetravalent Human Papillomavirus vaccine in Adolescent Girls with and without Booster Dose at 12 th month of Initial Vaccination.	Dr. RMLIMS
2	To compare the serum levels of toxic/trace elements and their association with levels of angiogenic and anti-angiogenic factors patients with and without pre-eclampsia.	Dr. RMLIMS

Scientific programs orgnized:

1. **Organizing Secretary** of AMUCON 2025 organised under the ageis of Association of Medical Update by Department of Biochemistry & Community Medicine, Dr RMLIMS at Ramada By Wyntham Lucknow Hotel Convention Centre, Lucknow (19-20 Dec 2025).
2. **Organizing Secretary** of ‘5th Pre-Conference CME of ACCLMPCON-2025’ organised under the aegis of UP Chapter, ACCLMP organized by Department of Biochemistry, Dr RMLIMS, Lucknow (6 Oct 2024).
3. **Organizing Secretary** of Pre-Conference Workshop, AMUCON 2025 organized by Department of Biochemistry & Community Medicine, Dr. RMLIMS, Lucknow (18 Dec 2025).
4. **Organizing Chairperson** in a Lecture on ‘Human Factor in Healthcare’ under Conference Prelude AMUCON-2025 (29 Nov 2025).

Scientific programs (Conference/Seminar/CME/Workshop)

Resource Person/Speaker/Oral Presentation:

SN	Title	Role/Category	Program	Year	Venue
1	Molecular Signatures in Infectious Diseases: Expanding the Role of Biochemistry Beyond Diagnosis	Speaker	ACCLMPCON 2025	30 Jan-1Feb 2026	KGMU, Lucknow
2	Principles that Power the Lab: People, Process and Performance	Speaker	AMUCON 2025	19-20 Dec 2025	Dr. RMLIMS, Lucknow
3	Pre-conference Workshop	Resource	AMUCON	18 Dec 2025	Dr. RMLIMS,

	on ICP-MS	Person	2025		Lucknow
4	Pre-conference Workshop on LC-MS/MS	Resource Person	AMUCON 2025	18 Dec 2025	Dr. RMLIMS, Lucknow
5	Pre-conference Workshop on NGS-Library Preparation and Data Analysis	Resource Person	AMUCON 2025	18 Dec 2025	Dr. RMLIMS, Lucknow
6	Advancing Acute Myocardial Infarction Detection & Management with High Sensitive Troponin I.	Speaker	CME	2021	Dr. RMLIMS, Lucknow
7	Role of biochemistry in prenatal diagnostics.	Speaker	CME	2021	SRMS, Bareilly

Poster presentation:

SN	Title	Role/Category	Program	Year	Venue
1	Association of cadmium (Cd) and lead (Pb) exposure in relation to serum insulin levels, insulin sensitivity and diabetes mellitus: a case-control study	Poster	ACBICON Conference	2022	PGI, Chandigarh
2	A dual marker approach using Heart-type Fatty Acid Binding Protein and High sensitive Troponin-I alleviates the need for serial sampling for rapid and reliable diagnosis of acute myocardial infarction.	Poster	AMBICON Conference	2021	Raipur
3	Serum Creatinine Kinase and Lactate Dehydrogenase Levels in Hypothyroid Patients	Poster	ACBICON Conference	2018	Era's Lucknow Medical College & Hospitals
4	Correlation between Fasting Blood Glucose and Serum Amylase in Type2 Diabetes Mellitus	Poster	ACBICON Conference	2018	Era's Lucknow Medical College &

					Hospitals
5	Vitamin D Levels in Women of Reproductive Age Group - Where do we Stand?	Poster	ACBICON Conference	2018	Era's Lucknow Medical College & Hospitals
6	Protein Creatinine Ratio versus Albumin Creatinine Ratio in CKD Assessment	Poster	APFCB	2016	Taipei, Taiwan
7	Effect of weather on cord blood TSH	Poster	AMBICON	2015	PGIMS, Rohtak
8	Relevance of Lung-specific X Transcript Level in Diagnosis and Overall in Non-Small Cell Lung Carcinoma.	Poster	ACBICON Conference	2023	Trivandrum, Kerala
9	Interplay of metals and metal transporter genes in the enigma of unexplained chronic kidney diseases.	Poster	APFCB 2024	31 Oct - 3 Nov 2024	Australia
10	Unlocking the Genetic Code of CKDu: The role of CYP2B6 variant genotype and Malathion toxicity.	Poster	AMUCON 2024	23-24 Nov 2024	Jaipur
11	Transcriptomic landscape of type 2 diabetes mellitus: a microarray analysis of gene expression and pathway enrichment.	Poster	50th ACBICON 2024	4-7 Dec 2024	Chandigarh
12	Enhanced diagnosis accuracy of tuberculous brain meningitis using mycolic and tuberculostearic acid via advanced mass spectrometric techniques.	Poster	AMBICON 2024	19-21 Dec 2024	Ahmedabad

Seminars/ Workshops/ Conferences attended:

S.N.	Seminar/Workshop/Conference	Year	Venue
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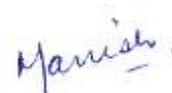
1	ACBICON	2022	PGI, Chandigarh
2	ACBICON	2023	Trivandrum
3	AMBICON	2021	Raipur
4	MPAICON	2012	Raipur
5	ACBICON	2018	Era's Lucknow Medical College & Hospitals
6	APFCB	2016	Taipei, Taiwan
7	AMBICON	2015	PGIMS, Rohtak
8	Workshop on Book Writing	29.03.2017	KGMU, Lucknow
9	Curriculum Implementation Support Program	30.05.2019-01.06.2019	Dr. RMLIMS, Lucknow
10	SMC Biochem CME 2014	29.01.2014	Subharati Medical College, Meerut
11	Tendem Mass Spectrometry applicatio For IEM	03.04.2013	AB SCIEEX, CoE, DHR, Holding India, Pvt. Ltd., Gurgaon
12	Research Methodology and Research Writing	13.03.2009	Baba Farid University of Health Sciences, Faridkot

Health education/Awareness and Community Participation

1. Health Camp at Raj Bhavan, Lucknow, Uttar Pradesh (Jan 2026).
2. Nodal officer at Balrampur District Hospital and SRCLI from 2015 to 2020.
3. Cervical cancer and HPV vaccination awareness program and health check up on 4th august 2023 by the institute and Hon'ble Governor of Uttar Pradesh as Chief Guest of the program.
4. Facilitated the health Camp at CHC, Papnamau, Juggaur, Block, Chinhath on 1st August 2024 approved with Community medicine department.
5. Facilitated Health Camp at CHC, Uchgaon Gomti nagar with department of community medicine.

Date: 19.02.2025

Place: Lucknow



(Dr. Manish Raj Kulshrestha)