

FACULTY DETAILS

1. Personal details:

Name: Dr Mohit Mehndiratta

Designation: Professor

Degrees: MBBS, MD

Department: Biochemistry

Area of Interest: RNA interference, Cancer Biology, Telomere Biology, Diabetes Mellitus, Nutrition, Medical Education



2. Education and Trainings:

Degree	Institution	Place	Period
MBBS	GSVM Medical College	Kanpur, UP	1996-2002
MD	AIIMS	New Delhi	2003-2006

3. Experience:

S.No	Post	Institute	Period
1	Senior Resident	AIIMS, New Delhi	2003-2009
2	Assistant professor	LHMC, New Delhi	2009
3	Assistant professor	UCMS, New Delhi	2009-2011
4	Associate professor	UCMS, New Delhi	2011-2015
5	Professor	UCMS, New Delhi	2015 –till date

4. Assignment in Academic Associations:

Active Member: American Association for Cancer research
Zonal Representative, Indian Journal of Medical Biochemistry
Member, Medical Education Unit, UCMS, New Delhi

5. Projects:

Principal Investigator (Major extramural project):

- Role of vitamins (A, C, D and E), telomere biology and Keap1-Nrf2-ARE pathway in the development of idiopathic preterm prelabour rupture of membranes. Funded by ICMR, Completed in September 2019.

Principal Investigator (minor projects):

- Relationship Between Expression of Metallothionein And Telomere Length – A Pilot Study
- Feedback on Problem based learning session from first year MBBS undergraduate students
- Impact of water quality on results obtained via an automated analyzer
Assessment of knowledge, attitude and risk perception towards HIV and hepatitis B among medical students in India

Co-investigator (major projects):

- Primary cultures of epithelial ovarian cancer as a tool to detect resistance to chemotherapeutic agents – a pilot study. Project funded by DBT
- Interplay between Platelet Activating Factor–Acetyl Hydrolase (PAF-AH), inflammation and oxidative stress in metabolic syndrome (Project funded by MRU/ICMR)

Co-investigator (minor projects):

- Evaluation of MBBS students' perspective of teaching and assessment methods in biochemistry for improving currently practiced approach
- Completed an IMRG project titled: To study the association of resistin gene expression in diabetics without and with nephropathy. (grant: 25,000/-)

6. Publications:

a. Indexed Journals:

1. **Mehndiratta M**, Gupta B, Kar R, *et al.* 25-Hydroxyvitamin D Insufficiency in Pregnant Indian Women and the Development of Preterm Prelabour Rupture of Membranes. The Journal of Obstetrics and Gynecology of India, DOI : 10.1007/s13224-021-01526-6, (Accepted for publication, in July 2021)
2. Singh N, Shrivastava H, Rai JK, Lakra R, **Mehndiratta M**, Singh A, Batra P. Evaluation of serum antioxidant status and dietary antioxidants in patient with gestational diabetes mellitus. International Journal of Clinical Obstetrics and Gynaecology. 2021;5(3):358-362
3. Khan AM, Patra S, Vaney N, **Mehndiratta M**, Chauhan R. Rapid transition to online practical classes in preclinical subjects during COVID-19: Experience from a medical college in North India. Medical Journal Armed Forces India. 2021 Feb 1;77:S161-7.
4. Suneja A, Faridi F, Bhatt S, Guleria K, **Mehndiratta M**, Sharma R. Effect of Vitamin D3 supplementation on symptomatic uterine leiomyoma in women with Hypovitaminosis D. Journal of Mid-life Health. 2021 Jan 1;12(1):53.
5. Jain A, Aggarwal R, Gupta N, **Mehndiratta M**, Gogoi P, Batra P, Agarwal R. Reduced fetal urine production rate—An early marker of fetal inflammatory response syndrome in cases of preterm premature rupture of membranes: A Prospective Cohort Study. Authorea Preprints. 2020 Nov 2.
6. Mehndiratta M, Pasha EH, Chandra N, Almeida EA. Quality Indicators for Evaluating Errors in the Preanalytical Phase. Journal of Laboratory Physicians. 2021 May 26.
7. Sharma D, **Mehndiratta M**, Puri D. Laboratory Changes in SARS-CoV-2 Infection: A Review. Indian J Med Biochem 2020; 24 (2):62-65.
8. Long term effects of rotational night shift work on expression of circadian genes and its association with postprandial triglyceride levels – A pilot study. Journal: Chronobiology International. (Accepted for publication)
9. Agarwal R, Sharma K, **Mehndiratta M**, Mohta M, Srivastava H, Anthonio AE. Role of repeat procalcitonin estimation at 48 hours for outcome in pregnancy associated sepsis: a prospective observational study. Korean Journal of Obstetrics & Gynecology. 2020 Nov 30.
10. Gupta P, Agarwal R, Bhaskaran S, Garg S, **Mehndiratta M**, Radhakrishnan G, Singh A, Agarwal R, Narang D. Evaluation of maternal plasma platelet activating factor acetylhydrolase activity and mRNA expression in pre-eclampsia: a case control study. Journal of Obstetrics and Gynaecology. 2020 Oct 15:1-7.
11. **Mohit Mehndiratta**, Almeida Edelbert Anthonio, RavooriSaaidesar Rao, Rajarshi Kar, Seema Garg , Bindiya Gupta, Amita Suneja, Dinesh Puri. Pre-analytical storage temperature affects

- telomere length and mRNA expression of hTERT. *RUHS Journal of Health Sciences*. 2020; 5(4):186-190.
12. Dhull RS, Jain R, Deepthi B, Cheong HI, Saha A, **Mehndiratta M**, Basu S. Vitamin D-dependent rickets (VDDR) type 1: case series of two siblings with a CYP27B1 mutation and review of the literature. *Brazilian Journal of Nephrology*. 2020(AHEAD).
 13. Agarwal R, Priyadarshini P, **Mehndiratta M**. Serum procalcitonin in pregnancy-associated sepsis: A case control study. *S Afr J Obs Gynaecol*. 2019;25:15-9.
 14. Bansal MS, Dwivedi DD, Kumar S, Puri D, **Mehndiratta M**, Bansal P. Role of bone turnover marker-bone specific alkaline phosphatase evaluation in monitoring healing of tibial shaft fractures managed by closed reduction. *International Journal of Orthopaedics*. 2020;6(2):795-800.
 15. Garg S, **Mehndiratta M**, Kar R, Malik P. Interrelationship between nuclear factor-erythroid-2-related factor 2, NADPH quinone oxidoreductase and lipoprotein-associated phospholipase A2 expression in young patients of metabolic syndrome. *International Journal of Diabetes in Developing Countries*. 2019;39(1):74-81.
 16. Sharma D, Garg S, **Mehndiratta M**, Madhu SV, Puri D. Association of apolipoprotein AV with mRNA expression of IL-6 and NF- κ B genes in type 2 diabetes with hypertriglyceridemia: a possible link with inflammation. *International Journal of Diabetes in Developing Countries*. 2019;1-7.
 17. Chandra N, **Mehndiratta M**, Garg S, Puri D. Current state of Medical Education in India: a perspective. *Ind J of Med Biochem*. 2018;22(2):163-165.
 18. Chawla D, Kar R, Gupta B, Halder S, Garg S, **Mehndiratta M**, Wadhwa N, Agarwal R. Role of Survivin and p53 Expression in Response of Primary Culture of Ovarian Cancer Cells to Treatment With Chemotherapeutic Agents. *International Journal of Gynecological Cancer*. 2018 Jul 1;28(6):1239-46.
 19. Gupta S, Sharma M, **Mehndiratta M**, Kalra OP, Shukla R, Gambhir JK. Association of Plasma Uric Acid with Inflammatory and Oxidative Stress Markers in Diabetic Nephropathy in North Indian Population: A Case Control Study. *Journal of Clinical & Diagnostic Research*. 2018 Jul 1;12(7).
 20. Meena UK, Jain S, Vaid NB, Sharma A, Chawla S, Guleria K, **Mehndiratta M**. Role Of Serum Retinol Binding Protein 4 In Preeclampsia: A Case Control Study. *Indian Obstetrics and Gynaecology*. 2018 Jul 12;8(2):8-14.
 21. Jain S, Danodia K, Suneja A, **Mehndiratta M**, Chawla S. Symptom Index for Detection of Ovarian Malignancy in Indian Women: A Hospital-based Study. *Journal, Indian Academy of Clinical Medicine*. 2018 Jan;19(1):27-32.

22. Nimesh A, **Mehndiratta M**, Garg S, Kar R, Puri D. Improving Academic Performance of Medical Undergraduates: Impediments and Solutions. *RUHS Journal of Health Sciences*. 2018; 3(1):11-16.
23. Chandra N, **Mehndiratta M**, Tripathi AK, Guleria K, Banerjee BD. Paraoxonase 1 Gene Polymorphism (rs662) and Increased Risk of Idiopathic Foetal Growth Restriction. *Journal of Clinical & Diagnostic Research*. 2017 Nov 1;11(11):SC16-SC20.
24. Kar R, Chawla D, Gupta B, **Mehndiratta M**, Wadhwa N, Agarwal R. Establishment of primary cell culture from ascitic fluid and solid tumor obtained from epithelial ovarian carcinoma patients. *International Journal of Gynecological Cancer*. 2017 Nov 1;27(9):2000-5.
25. Nimesh A, Agarwal V, Garg S, **Mehndiratta M**. Ultraviolet absorption spectral scan and fluorescence emission spectral scan analysis: Potential tests with diagnostic utility in porphyria. *Ind J Med Biochem*. 2017;21(2):1-6
26. Nimesh A, **Mehndiratta M**, Agarwal V, Garg S, Kar R. Serum absorption spectral scan pattern- an individual's blueprint: its use while authenticating laboratory results. *International J. of Healthcare and Biomedical Research*. 2017 Oct;6(01):36-42.
27. Nimesh A, **Mehndiratta M**, Agarwal V, Garg S, Puri D. Pre-analytical variables in clinical chemistry: training medical undergraduates through case-based discussion. *Int J Clin Biomed Res*. 2017; 3(4): 33-8
28. Nimesh A, **Mehndiratta M**, Kar R, Garg S, Puri D. Currently practiced assessment methods for medical undergraduates: a time to ponder. *Eur J Pharm Med Res* 2017; 4(9): 657-61
29. Agarwal R, Kumari R, **Mehndiratta M**, Radhakrishnan G, Faridi MM, Chandra N. Pregnancy-Associated Plasma Protein A Levels in Late First Trimester Pregnancies with Small-for-Gestational Age Neonates: A Prospective Case–Control Study. *The Journal of Obstetrics and Gynecology of India*. 2017 Aug 1;67(4):247-52.
30. Sharma D, Garg S, **Mehndiratta M**, Madhu SV, Puri D. Relationship of serum apolipoprotein AV levels, oxidative stress and inflammatory biomarkers with hypertriglyceridemia in type 2 diabetes mellitus. *International journal of endocrinology and metabolism*. 2017 Apr;15(2):e44805.
31. Jafri AA, Sharma SB, Luthra K, **Mehndiratta M**, Khurana N, Singh UR. Regulation of Gene Expression in Downstream Signaling Molecules by Herbal Compound in Insulin Resistant Diabetic Rats. *AlternIntegr Med*.2017;6:3.
32. Gautam A, Gupta S, **Mehndiratta M**, Sharma M, Singh K, Kalra OP, Agarwal S, Gambhir JK. Association of NFKB1 gene polymorphism (rs28362491) with levels of inflammatory biomarkers

and susceptibility to diabetic nephropathy in Asian Indians. *World journal of diabetes*. 2017 Feb 15;8(2):66.

33. Sharma M, Gupta S, Singh K, **Mehndiratta M**, Gautam A, Kalra OP, Shukla R, Gambhir JK. Association of glutathione-S-transferase with patients of type 2 diabetes mellitus with and without nephropathy. *Diabetes & Metabolic Syndrome: Clinical Research & Reviews*. 2016 Dec 31;10(4):194-7.
34. Neogi SS, **Mehndiratta M**, Gupta S, Puri D. Pre-analytical phase in clinical chemistry laboratory. *J Clin Sci Res*.2016;5:171-8.
35. Sharma M, **Mehndiratta M**, Gupta S, Kalra OP, Shukla R, Gambhir JK. Genetic association of NAD (P) H quinone oxidoreductase (NQO1* 2) polymorphism with NQO1 levels and risk of diabetic nephropathy. *Biological chemistry*. 2016 Aug 1;397(8):725-30.
36. Garg S, Malik P, Kar R, Sankar V, **Mehndiratta M**. Expression of lipoprotein associated phospholipase A2 enzyme in medical undergraduate students with metabolic syndrome. *Diabetes & Metabolic Syndrome: Clinical Research & Reviews*. 2016 Mar 31;10(1):S21-4.
37. **Mehndiratta M**, Garg S, Kar R, Puri D. Pitfalls of currently practiced approach for teaching medical students: opinions & options. *International Journal of Clinical Biochemistry and Research*. 2016;3(1):100-4.
38. Kar R, Garg S, Halder S, Galav V, Chandra N, **Mehndiratta M**. Cadmium exposure induces oxidative stress by decreasing expression of antioxidant enzymes in mice liver. *Int. J. Clin. Biochem. Res*. 2015;2(2):89-96.
39. Gupta S, **Mehndiratta M**, Kalra S, Kalra OP, Shukla R, Gambhir JK. Association of tumor necrosis factor (TNF) promoter polymorphisms with plasma TNF- α levels and susceptibility to diabetic nephropathy in North Indian population. *Journal of Diabetes and its Complications*. 2015 Apr 1;29(3):338-42.
40. **Mehndiratta M** and Puri D. Adopting role play for training medical interns about sample collection and processing for laboratory investigations. *Ind J of Med Biochem*. 2015;19(1),24-27.
41. **Mehndiratta M**, Gupta S and Puri D. Roleplay: a method of teaching biochemistry to medical undergraduates. *Ind J of Med Biochem*. 2015;19(1),39-41.
42. Chandra N, **Mehndiratta M**, Banerjee BD, Guleria K, Tripathi AK. Idiopathic Fetal Growth Restriction: Repercussion of Modulation in Oxidative Stress. *Indian journal of clinical biochemistry*. 2016 Jan 1;31(1):30-7.
43. Chandra N, **Mehndiratta M**, Banerjee BD, Guleria K, Tripathi AK. Phenotypic expression and polymorphism of glutathione S transferase gene in materno-fetal dyads with idiopathic fetal growth restriction. *Journal of Reproductive Health and Medicine*. 2015 Jan 1;1(1):10-7.

44. Uppal V **Mehndiratta M**, Mohapatra D, Grover RK, Puri D. XRCC-1 Gene Polymorphism (Arg399Gln) and Susceptibility to Development of Lung Cancer in Cohort of North Indian Population: A Pilot Study. *J Clin Diagn Res.* 2014 Nov;8(11):CC17-20.
45. Gupta S, Gambhir JK, Kalra OP, Gautam A, Shukla K, **Mehndiratta M**, Agarwal S, Shukla S. Association of biomarkers of inflammation and oxidative stress with the risk of chronic kidney disease in Type 2 diabetes mellitus in North Indian population. *Journal of diabetes and its complications.* 2013;27(6): 548-552.
46. **Mehndiratta M**, Palanichamy JK, Pal A, Bhagat M, Singh A, Sinha S, Chattopadhyay P. CpG hypermethylation of the C-myc promoter by dsRNA results in growth suppression. *Molecular Pharmaceutics.* 2011;8(6):2302-9.
47. Pal A, Srivastava T, Sharma MK, **Mehndiratta M**, Das P, Sinha S, et al. Aberrant methylation and associated transcriptional mobilization of Alu elements contributes to genomic instability in hypoxia. *J Cell Mol Med.* 2010;14(11):2646-54.
48. Das A, **Mehndiratta M**, Chattopadhyay P, Ray AR. Prolonged zero-order BSA release from pH-Sensitive hydrogels of poly(AAc-co-DMAPMA) having rich nano through micro scale morphology. *J Appl Polymer Sci.* 2010;115(1):393-403.
49. Palanichamy JK, **Mehndiratta M**, Bhagat M, Ramalingam P, Das B, Das P, et al. Silencing of integrated Human Papillomavirus-16 oncogenes by siRNA mediated heterochromatization. *Mol Cancer Ther.* 2010;9(7):2114-22.
50. Rao PS, Chandna R. Highlights of the Pre Congress Workshop No. 7 January 29th and 30th 2008; International Leprosy Congress, 2008 Hyderabad, India. *Leprosy Review.* 2008 Jun 1;79(2):223-30. (**Mehndiratta M: Joint author**)
51. **Mehndiratta M**, Palanichamy JK, Ramalingam P, Pal A, Das P, Sinha S, Chattopadhyay P. Fluorescence acquisition during hybridization phase in quantitative real-time PCR improves specificity and signal-to-noise ratio. *Biotechniques.* 2008 Dec;45(6):625-34.

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