



MAHARSHI DAYANAND UNIVERSITY, ROHTAK
(Accredited A+ Grade by NAAC)



Name : Dr. Ritu Yadav
Designation : Associate Professor
Department : Genetics
University : M. D. University, Rohtak
Date of Birth : 26-02-1979
E-mail : ritugenetics@mdurohtak.ac.in
Corresponding Address : G-3, Department of Genetics, M. D. University, Rohtak-124001, Haryana (India)
Field of specialization : Human Genetics
Cancer Epigenetics

EDUCATION QUALIFICATIONS (Postgraduate onwards)

S. No.	Place	Degree	Year	Specialization
1.	M.D. University, Rohtak	M.Sc. (Zoology)	2002	Animal Sciences
2.	M.D. University, Rohtak	Ph.D. (Genetics)	2008	Human Genetics

POSITIONS HELD (Starting with most recent employment)

S. No.	Institution	Position	From	To
1.	M.D. University, Rohtak	Associate Professor	03.05.2022	Contd.
2.	M.D. University, Rohtak	Assistant Professor	03.05.2010	2.05.2022
3.	KVA, D.A.V. College, Karnal	Assistant Professor	08.07.2009	30.04.2010
4.	Forensic Science Laboratory, Madhuban, Karnal	Senior Scientific Assistant	14.06.2007	31.12.2008

TOTAL EXPERIENCE

- Post Graduate : **13 years**
- Total research Experience : **18 years**

PH.D. SUPERVISION SINCE 2013

1. **Preeti Chauhan**: Evaluation of ER-alpha gene (ESR 1) polymorphism in breast cancer patients (COMPLETED IN 2019).
2. **Lokesh Kumari**: Evaluation of Promoter Hypermethylation of Notch and Wnt Signalling Pathways in Cervical Cancer Patients (COMPLETED IN 2020).
3. **Shivkant**: A Cross-Sectional Study on Genetic Diversity of Y- Chromosomal STRs in Brahmin Population of Haryana and Rajasthan, India (COMPLETED IN 2022).

4. **Chetna Yadav:** Evaluation of Altered Methylated Apoptotic Genes and Role in Cervical cancer Pathogenesis (ONGOING)
5. **Shalu Ranga:** Evaluation of Long non-coding RNAs (lncRNAs) Expression Profile of MAPK/STAT3 Signaling Pathways in Cervical Cancer Patients (ONGOING)
6. **Parul Ahuja:** Evaluation of Aberrant Methylation of Differentially Expressed Genes in Esophageal Carcinoma (ONGOING)

RESEARCH PROJECT/S UNDERTAKEN

S. No.	Title & type of projects	Status	Funding agency	Period	Grant received (INR)
1.	To study the use of biomarkers in breast cancer patients by immunohistochemistry	Completed	UGC, Major Project	July 2011- June 2014	12,31,380/-
2.	Role of estrogen receptor polymorphism in breast cancer	Completed	Dr. Radha Krishnan Foundation Fund, MDU,Rohtak	2014-2015	10,000/-
3.	Evaluation of promoter of <i>TRAIL RI</i> gene in stored DNA samples of cervical cancer patients	Ongoing	Dr. Radha Krishnan Foundation Fund, MDU, Rohtak	2020-2021	50,000/-

AWARDS AND DISTINCTIONS

- Received **Outstanding oral presentation** on 'Cervical cancer awareness: First step towards prevention' presented in the 2nd International Webinar on Oncology Research and Chronic Diseases, France on December 1, 2022,
- Received **certificate of Excellence** for oral presentation on 'Expression of Cytokeratin biomarkers in breast carcinoma' in 3rd World Congress on Pathology and Cancer Diagnosis-2022 held virtually on 22nd May 2022, Bengaluru, India.
- **Best Poster Award** for presenting poster on 'DNA Promoter Methylation as Epigenetic markers in cervical cancer: Therapeutic approach' in virtual symposium on 'Role of Epigenetics in Health: Challenges and Opportunities' organized by BITS, Pilani on 25-26 Feb. 2022.
- **Best Poster Award** on 'Genetic Polymorphism in ESR1 gene as Breast Cancer Risk' in World Cancer Congress on April 28-29, 2018, New Delhi.
- **Rewarded 10000/- and letter appreciation** (Commendation Certificate, Class-I) by the Director General of Police (Haryana) for extra ordinary work in the Forensic Science Laboratory, Madhuban (Karnal) in 2008.

- University Research Fellowship awarded by MDU for PhD in 2003-06 on the basis of merit of academic excellence.
- **Scholarship** awarded by MDU for higher education (Master's Degree) on the basis of merit of bachelor academic excellence in 2000-02.
- Certified for standing **first in Zoology** at B.Sc. level in Government College for Women (Rohtak) in 1999-2000.

RESEARCH JOURNAL PAPERS

(Peer-reviewed/UGC listed/Scopus/Clarivate Analytical Indexed)

1. Lokesh Kumari Kadian, Gulshan Gulshan, Parul Ahuja, Geetanjali Singhal, Shivkant Sharma, Smiti Nanda, **Ritu Yadav** (2020). Aberrant promoter methylation of NOTCH1 and NOTCH3 and its association with cervical cancer risk factors in North Indian population. American Journal of Translational Research, (6): 2814-2826. ISSN: 1943-8141. **Impact factor-4.06.**
2. Lokesh Kumari Kadian, **Ritu Yadav**, Smiti Nanda, Gulshan Gulshan, Shivkant Sharma, Chetna Yadav (2020). High-risk HPV infection modulates the promoter hypermethylation of APC, SFRP1, and PTEN in cervical cancer patients of North India. Molecular Biology Reports, 47(12): 9725-9732. e-ISSN: 1573-4978, p-ISSN: 0301-4851. **DOI: [10.1007/s11033-020-05960-z](https://doi.org/10.1007/s11033-020-05960-z). Impact factor-2.74.**
3. Lokesh Kumari Kadian, Gulshan Gulshan, Shivkant Sharma, Indu Kumari, Chetna, Smiti Nanda, **Ritu Yadav** (2020). A study on knowledge and awareness of cervical cancer among females of rural and urban areas of Haryana, North India. Journal of Cancer Education, 37(7): 9089. ISSN 0885-8195. **DOI: 10.1007/s13187-020-01712-6. Impact factor-1.77.**
4. Sh. Sharma, **R. Yadav**, V. Sahajpal, L. Kumari, A. Sharma (2022). A comparative study on frequency of amelogenin Y deletion in a Brahmin population of Haryana and Rajasthan state with other Indian and global populations. Russian Journal of Genetics, 58(1). **Impact factor-0.5.**
5. Shivkant Sharma, **Ritu Yadav**, Vivek Sahajpal, Mugdha Singh, Shalu Ranga, Lokesh Kadian, Chetna Yadav, Ankush Patial, NishaDevi, and Parul Ahuja (2022). Y-23 mediated genetic data analysis of endogamous Brahmin population of Rajasthan, India. Data in Brief, (42): 108061. **Impact factor-1.38**
6. Shivkant Sharma, **Ritu Yadav**, Vivek Sahajpal, Lokesh Kumari, Chetna Yadav, Shalu Ranga (2021). Y-Chromosome and its future implications: A Review. Annals of the Romanian Society for Cell Biology, 25(6): 17116-17124. ISSN: 1583-6258.
7. Lokesh Kumari Kadian, Geetanjali Singal, Shivkant Sharma, Preeti Chauhan, Smiti Nanda, **Ritu Yadav** (2019). Incidence and association of HPV16 and 18 with various risk factors in cervical cancer patients in population of Haryana region, India Journal of clinical and diagnostic research, 13(2): 10-13. ISSN: 0973709X.
8. Preeti Chauhan, **Ritu Yadav**, Vivek Kaushal, Lokesh Kadian (2019). Evaluation of genetic polymorphism in estrogen receptor α gene as breast cancer risk. Biomedical research, 30(1): 72-77. ISSN: 0970-938X (Print)| 0976-1683 (Electronic). Journal No-14794. **Impact factor-0.2**

9. Chauhan P, **Yadav R**, Kaushal V (2017). Breast Cancer Risk Factors According to Menopausal Status. Online J Health Allied Scs, 16(2): 3. ISSN: 0972-5997.
10. Geetanjali Yadav, Minakshi Vashist, Rajiv Sen, **Ritu Yadav**, Nidhi Paliwal (2017). CHI3L1 overexpression in different types of ovarian cancer. IOSR Journal of Pharmacy and Biological Sciences (IOSR-JPBS), 12(4)V: 28-32. e-ISSN: 2278-3008, p-ISSN: 2319-7676. **DOI: 10.9790/3008-1204052832.**
11. Shiksha Sharma, Minakshi Vashist, **Ritu Yadav**, Kirti Grow (2017). Higher Prevalence of Varicose Veins in Pregnant Women. IOSR Journal of Biotechnology and Biochemistry (IOSR-JBB), 3(4): 28-30. ISSN: 2455-264X.
12. Chauhan P, **Yadav R**, Kaushal V, Beniwal P (2016). Evaluation of serum biochemical profile of breast cancer patients. International Journal of Medical Research & Health Sciences Vol. 5(7): 1-7. ISSN: 2319-5886. **Impact factor-0.18.**
13. Chauhan P, **Yadav R**, Kaushal V, Beniwal P (2016). Prognostic significance of complete blood count in breast cancer patients. Indian Journal of Medical Research and Pharmaceutical Sciences, 3(8). ISSN: 2349-5340. **DOI: 10.5281/zenodo.60328. Impact Factor-3.05.**
14. **Ritu Yadav**, Rajeev Sen, Preeti Chauhan (2016). Role of cytokeratin biomarkers in breast carcinoma. Asian journal of Pharmaceutical and clinical research Nov. 2016; 9 (6) 293-296. ISSN: 2455-3891, Print ISSN: 0974-2441. **Impact Factor-0.48.**
15. Minakshi Vashist, **Ritu Yadav**, Kirti Grow, Shiksha Sharma (2015). Epidemiology of delayed milestones in different level of intellectual disabilities European Journal of Pharmaceutical and Medical Research EJPMR, 2(6): 229-233. ISSN: 3294-3211. **SJIF impact factor-2.026.**
16. **Ritu Yadav**, Preeti Chauhan, Rajeev Sen, Minakshi Vashist (2015). Mammaglobin: As a diagnostic marker for Breast Cancer. International Journal of Recent Scientific Research JRSR 6(12), 7703-7706, ISSN: 0976-3031.
17. **Ritu Yadav**, Preeti Chauhan, Rajeev Sen (2015). ER, PR, her2/neu status and relation to clinicopathological factors in breast carcinoma. International journal of Pharmacy and Pharmaceutical sciences, 8(4): 287-290. ISSN: 0975-1491. **Impact factor-1.59.**
18. **Ritu Yadav**, Vivek Kaushal, Preeti Chauhan, Minakshi Vashist (2015). Estrogen receptor α (ESR1) polymorphism and breast cancer. American Journal of Pharmtech Research, 5(1): 113-136. ISSN: 2289-3387. **Impact factor-0.98.**
19. **Ritu Yadav**, Rajiv Sen, Preeti Chauhan (2015). Subtyping of Breast cancer (Er, Pr and Her2 expression) and their relation with clinicopathological parameters. Indian Journal of Public Health Research and Development, 6(1): 207-212. ISSN-0976-0245, Online ISSN: 0976-5506. **DOI 10.5958/0976-5506.2015.00040.6.**
20. **Ritu Yadav**, Rajeev Sen, Preeti Chauhan (2015). Calculation of NPI score: Prognosis of breast cancer. Indian Journal of Public Health Research and Development, 6(2): 199-202. ISSN-0976-0245, Online ISSN: 0976-5506. **DOI 10.5958/0976-5506.2015.00102.3.**
21. Rathee R, Kamal N, Kumar A, Vashist M, **Yadav R**. Dermatoglyphic patterns of Acute Leukemia patients. International Research Journal of Biological Sciences, 3(7). July 2014. ISSN: 2278-3202. **Impact factor-0.37**
22. Kirti Grow, Minakshi Vashist, Pankaj Abrol, Shiksha Sharma, **Ritu Yadav** (2014). Beta thalassemia in India: Current status and the challenges ahead. International journal of pharmacy and pharmaceutical sciences, 6(4). ISSN: 0975-1491. **Impact factor-1.59.**

23. **Ritu Yadav**, Preeti Chauhan, Sunil Kumar, Nutan Sharma, Ravita Deshwal (2013). Comparative evaluation of breast cancer evaluation in population of Haryana. *International Journal of Science and Nature*, 4(4): 633-38. ISSN: 2229-6441.
24. Shiksha Sharma, Minakshi Vashist, Madan Gopal Vashist, Kirti Grow, **Ritu Yadav** (2013). Certain Profession of Working as Risk Factors for Varicose Veins. *International organization of scientific research Journal of Pharmacy and Biological Sciences (IOSR-JPBS)*, 7(5): 56-59. e-ISSN: 2278-3008, p-ISSN: 2319-7676.
25. Kirti, Minakshi Vashist, **Ritu Yadav**, Shiksha Sharma (2013) Associated complications in beta thalassemia patients. (IOSR) international organization of scientific research Journal of pharmacy (IOSRPHR), 3(1): 22-25. **ACP impact factor-1.44**
26. Minakshi Vashist, **Ritu Yadav**, Shiksha Sharma (2013). Study of prevalence, sex ratio and different level of intellectual disability in Haryana. *Indian journal of public health research & development*, 4(2): 211-14.
27. **Ritu Yadav**, Rajiv Sen, Preeti Chauhan (2012). "Role of receptors in breast cancer". *International journal of advanced biological research*, 2(4): 561-571.
28. **R Yadav**, R Sen, P Chauhan and D Phougat (2012). "Overview of Breast Carcinoma" *International journal of basic and applied medical sciences*, 2(2): 196-207.
29. Minakshi Vashist, Neelkamal, **Ritu Yadav**, Amit Kumar, Shiksha Sharma and Radha Rathee (2012). Dermatoglyphics: A diagnostic tool in Trisomy-21. *J. Appl. Biosci.*, 38 (2): 1-22.
30. Minakshi Vashist, **Ritu Yadav**, Shiksha Sharma, Kirti (2012). Intellectual disability- Challenge for society. *Biosciences, Biotechnology Research Asia*, 9(2): 735-745.
31. Minakshi Vashist, **Ritu Yadav** (2011). Study of Maternal Age, Family History of Mental Retardation, Consanguinity in Mental Retardation. *Research Journal of Biology*, 1(1).
32. Minakshi Vashist, **Ritu Yadav**, Neelkamal, Radha Rathee (2011). Dankmeijer's index (D.I.) in Mental retardation. *Internet Journal of Biological anthropology*, 4(2).
33. Minakshi Vashist, Shivani Kachroo, **Ritu Yadav** (2011). Epidemiology of Severe Mental Retardation. *International Journal of Bioengineering, Neurosciences and Technology*, 1(1): 32-36.
34. Minakshi Vashist, **Ritu Yadav**, Neelkamal, and Amit Kumar (2010). Axial triradius as a preliminary diagnostic tool in patients of Mental retardation. *The internet journal of Biological Anthropology*. 4(1).
35. Minakshi Vashist, **Ritu Yadav**, Kirti, Shivani Kachroo (2010). Cytogenetic analysis of mentally retarded patients of Haryana. *Journal of Cytology and Genetics*, 11: 49-56.
36. Minakshi Vashist, **Ritu Yadav**, Neelkamal, Radha Rathee and Shiksha Sharma (2010). Dermal patterns of Haryana Population. *National Journal of Life Sciences*, 7(1): 63-66.

BOOK CHAPTERS PUBLISHED

1. **Yadav Ritu**, Ranga Shalu, Yadav Vaishali, and Yadav Chetna. "Endometrial Cancer: Histopathology and Diagnostic Procedures." *Challenges and Advances in Pharmaceutical Research* 10, (2022): 1-21. Print ISBN: 978-81-959585-6-6, eBook ISBN: 978-81-959585-0-4. DOI: 10.9734/bpi/capr/v10/4711A.
2. **Yadav Ritu**, Ahuja Parul, Lathwal Nancy, and Chauhan Preeti. "Endometrial Cancer: Aberrations in Signaling Pathways and Targeted Intervention." *Challenges and Advances in*

Pharmaceutical Research 10, (2022): 22-36. Print ISBN: 978-81-959585-6-6, eBook ISBN: 978-81-959585-0-4. DOI: 10.9734/bpi/capr/v10/4710A.

3. Ranga Shalu, and **Yadav Ritu**. "Status of Higher Education in Asian Countries Amid Covid-19 Circumstances." Education in the Digital Age, (2022): 49-65. ISBN: 978-93-91979-33-1
4. Chauhan Preeti, and **Yadav Ritu**. "Covid-19: Impact on Higher Education in Asian Countries." Education in the Digital Age, (2022): 66-79. ISBN: 978-93-91979-33-1

PAPER IN CONFERENCE PROCEEDING

1. Shivani Kachroo, Vashist Minakshi, **Ritu Yadav** and Amit Kumar (2010). Prenatal Environmental Risk Factors in Severe Intellectual Disability in proceedings of National Conference on Environmental and Health Issues: In a Changing Climatic Scenario. pp 183-187.
2. **Ritu Yadav** and Preeti Chauhan (2013). Evaluation of breast cancer awareness among young women. National Seminar "Promising Trends in Science Galaxy" (PTSG-2013) ISBN: 978-81-920945-3-3, Pp143-45.

SCIENCE MAGAZINE ARTICLES

1. Dr. Sahib Singh Chandna, **Dr. Ritu Yadav**, and Priya chaudhary (2011). Scientific Aid-A Breakthrough in investigation .CBI Bulletins Vol XIX Nos.7-9.
2. Dr. Sahib Singh Chandna, **Dr. Ritu Yadav**, and Priya chaudhary (2013). Methods to combat harmful bacteria invading in serological and biological divisions of forensic establishments. CBI Bulletins Vol. XXI, Nos.1-3
3. **Ritu Yadav**, Rajvinder Singh, and Preeti Chauhan (2014). Electrophoresis: A new era in forensic science.Vol. XXII, Nos.7-9. Pg 26-28 .July to Sept

PARTICIPATION IN CONFERENCES/SEMINAR

1. Attended **International Webinar** organized on "Bridging the gap - opening up large volumes to Nanotechnology" on 25th July, 2020, School of Sciences P. P. Savani University, Surat.
2. Attended **International Webinar** organized on "How is human-caused air pollution changing our climate" on 25th June, 2020, School of Sciences P. P. Savani University, Surat.
3. Attended **National Webinar** organized on "Demystifying writing a Scientific research" on 16 May, 2020, School of Sciences P. P. Savani University, Surat.
4. **National seminar** on Data Analysis and Interpretation in Scientific Research organized by Department of Genetics, M.D.University,Rohtak on 9th November ,2019.
5. Attended one day **National conference** cum Awareness Programme on 'Protection of intellectual property rights-Need of the Hour' organized by Dept. of pharmaceutical sciences, M. D. University, Rohtak, on 10 May, 2018.
6. Attended one day **National workshop** on 'Bioethics in research: A need or compulsion' organized by Dept. Of Genetics, M. D. University, Rohtak, on 15 November, 2018.
7. Attended one day **National workshop** on 'Intellectual property Right protection' organized by Dept. Of Genetics, M. D. University, Rohtak, on 03 November, 2018.

8. Attended one day **National conference** cum Awareness Programme on 'Protection of intellectual property rights-Need of the Hour' organized by Dept. of pharmaceutical sciences, M. D. University, Rohtak, on 10 May, 2018.
9. Attended one day **National conference** cum workshop on 'Emerging infectious Diseases' organized by Centre for Biotechnology M. D. University, Rohtak, on 29 November, 2017.
10. Attended one day **workshop** on 'Climate Change and Sustainable Development' organized by Dept. of Environmental sciences M. D. University, Rohtak, on 24 November, 2017. .
11. Attended one day **workshop** on 'DNA Forensics –The Brouhaha of the science' organized by Dept. of Genetics M. D. University, Rohtak, on 21 November, 2017.
12. Member in **National conference** 'Emerging trends in Biochemistry' organized by Deptt. Of Biochemistry on 15-16th Sept., 2017, M. D. University, Rohtak
13. Attended one day **workshop** on 'Coping Health Issues' organized by Women's Studies Center & M. D. University, Rohtak, on Feb. 23, 2017.
14. Attended one day conference cum **workshop** on 'Skill development in molecular techniques' organized by Dept. Of Genetics & M. D. University, Rohtak, on 12 November, 2016.
15. Attended one day National **seminar** cum workshop on 'Animal Ethics and Experimentation' organized by Central Animal House & M. D. University, Rohtak, on 22 October, 2016.
16. Attended **workshop** on '**Medical Statistics**' in 12th International Conference of the Asian clinical oncology society, Cancer in Asia: Bridging the Gaps held on 8th -10th April 2016, at New Delhi.
17. Attended **workshop** on 'Leadership in Oncology' in 12th International Conference of the Asian clinical oncology society, Cancer in Asia: Bridging the Gaps held on 8th -10th April 2016, at New Delhi.
18. Attended **workshop** on '**Molecular Diagnostics**' in 12th International Conference of the Asian clinical oncology society, Cancer in Asia: Bridging the Gaps held on 8th -10th April 2016, at New Delhi.
19. Attended one day **workshop** on 'Women Visibility and Space' organized by Women's Studies Center & M. D. University, Rohtak, on Feb. 11, 2016.
20. Attended one day **workshop** on 'Author workshop' organized by Springer & M. D. University, Rohtak, on Feb. 25, 2015.
21. Attended **International research colloquium** on 'Interdisciplinary scope of Microbiology: Present status and future directions (IRCISM-2015)' organized by Department of Microbiology, M.D. University, Rohtak, January 31, 2015.
22. Attended **seminar** on 'Convergence of biotechnology & engineering for industry (CBEI-2014)' organized by Department of Biotechnology, University institute of Engg.& Tech., M.D. University, Rohtak, Nov. 26, 2014.
23. Attended **National Seminar** on "Microbes and Resource management organized by association of microbiologists of India–Rohtak Unit, M.D University Rohtak on 22 October 2011.
24. Attended **National Seminar** on "Molecular Techniques –The face of Modern sciences organized by Department of Biochemistry, M.D University Rohtak on 24 October 2011
25. Attended **seminar** on 'Intellectual property creation and protection' organized by Department of Micrology , M.D University Rohtak from 23 April 2011

26. Attended **India-Japan seminar** on “Nanomaterials for Diagnostics and therapeutics” organized by Department of Biochemistry, M.D University Rohtak on 30 October 2010.
27. Attended **National workshop** on Bioinformatics organized by Department of Biotechnology, M.D University Rohtak from 14-16 September 2010.
28. Attended **Colloquium** on “Microbial technology and its Human benefits ” held on 7th August 2010, M.D University Rohtak.
29. Attended **International conference** on changing environmental trends and sustainable developmental organized by department of environmental Science & Engineering Guru Jambheshwar University of Science & Technology , Hisar from 9-11 February,2009.
30. Attended **workshop** on Recent Trends in Nanotechnology held at Department on Engineering and technology, MDU, Rohtak on March 27, 2007.
31. Attended **National workshop** on towards facing challenges of the mentally challenged their achievement and its alleviation from Feb. 12-13, 2005.
32. Attended **workshop** on patent awareness organized by PIC, Hisar in collaboration with TIFAC, New Delhi & Biosciences Deptt. MDU Rohtak on December 30, 2005 at M DU, Rohtak.

PAPER PRESENTED IN CONFERENCE/SEMINAR

1. **Oral presentation** on ‘Cervical cancer awareness: First step towards prevention’ presented in the 2nd International Webinar on Oncology Research and Chronic Diseases, France on December 1,2022,
2. **Oral presentation** on " Expression of Cytokeratin biomarkers in breast carcinoma" in 3rd World Congress on Pathology and Cancer Diagnosis-2022 (Virtually) held on 22nd May ,Bengaluru,India.
3. **Oral presentation** on ‘Study of prenatal, neonatal, postnatal risk factors in intellectual disability’ **in National conference** on Current understanding of pathogenesis of Human Genetic Diseases, Department of Genetics, M.D. University, Rohtak on 23 Feb.,2021.
4. **Oral presentation** on ‘Study of Genetic polymorphism in Breast cancer Patients’ in the 2nd Capacity Building **National Webinar** cum workshop On “Ethics in biomedical research and gap guidelines” Zoology Department,M.D.University,Rohtak,March 15, 2021.
5. **Post presentation** on ‘Role of Wnt signaling pathway in cervical cancer’ **14th International Symposium** on Cancer Prevention and Therapeutics, School of Life Sciences & Special Centre for Systems Medicine Jawaharlal Nehru University, New Delhi, INDIA on 16th & 17th March 2021.
6. **Oral presentation** on "Screening of Low and high risk HPVs Cervical Cancer Patients: PCR Sensitive Technique" in 4th Global Cancer Summit 2021 Virtual International Conference, held on 24th April, 2021.
7. **Oral Presentation** on ‘Molecular Screening of HPV in Cervical Cancer Patients: A Hospital based Study’ in International Conference on ‘Innovative Research in Bioscience, Bioinformatics, Biomedical Engineering, Cancer Biology and Applied Biotechnology’ Organised by Krishi Sanskriti, JNU New Delhi June 15, 2019.

8. **Poster presentation** on 'Climate change and human health' in international Seminar on Sustainable environment & agriculture under global climate change organised by Department of Environmental Science, M.D. University, Rohtak on February 21, 2019.
9. **Poster presentation** on 'Genetic Polymorphism in ESR1 gene as Breast Cancer Risk' in World Cancer Congress- on April 28-29, 2018, New Delhi.
10. **Poster presentation** on 'Climate change and allergies' in international conference on sustainable agriculture, energy, environment and technology (icsaeet-2018)" jointly organized by the MDU, Rohtak and Society for Sustainable Agriculture & Resource Management (SSARM) on February 24-25, 2018.
11. **Poster presentation** on 'Suitability of Polymerase Chain Reaction Methods for Forensic Investigation 'in National Seminar 'Current Scenario In Forensic Investigative Techniques'" organized by Department of Genetics, M.D University Rohtak, September 07, 2017.
12. **Poster presentation** on 'A new era of modern science: Pharmagenomics/Pharmacogenetics' in National Conference 'Genetic diversity and therapeutic potential of Natural Products organized by Department of Genetics, M.D University, Rohtak, September 17, 2016.
13. **Poster presentation** on 'Role of Mammaglobin as Diagnostic Marker for Breast Cancer' in 12th International Conference of the Asian clinical oncology society, Cancer in Asia: Bridging the Gaps held on 8th -10th April 2016, at New Delhi.
14. **Poster presentation** on 'Role of estrogen receptor status and clinic-pathological factors in breast carcinoma in National Seminar' Innovative researches in Life sciences' organized by Department Zoology, M.D University Rohtak, 21 February, 2015.
15. **Poster presentation** on 'Breast Carcinoma: An Overview' in National Conference 'Therapeutic Potential of Natural Products : Current Innovations & Future Trends' organized by Department of Genetics, M.D University Rohtak, 19 March, 2015.
16. **Poster presentation** on 'Thermodynamics of Cancer' in 6th National conference on thermodynamics of chemical and biological systems organized by Department of chemistry, M.D University Rohtak from 2-4 November 2011.
17. **Poster presentation** on "Immunohistochemical assay on breast cancer" in International Conference on gene, genetics & genomics: Today & Tomorrow-Human concern and XXXVII Annual Conference of The Indian Society of Human Genetics organized by Department of chemistry, M.D University Rohtak from 2-4 November 2011.
18. **Poster presentation** on Internet: Applications in Research in National Seminar organized by Department of Environmental sciences, M.D University Rohtak 26 March, 2011.
19. **Oral presentation** on topic "Interaction of environmental factors and cancer" in National conference on 'Environmental and Health issues: In a changing climatic Scenario' organized by Department of Environmental sciences, M.D University Rohtak from 14-15 October 2010.

TRAINING PROGRAMS/WORKSHOPS:

- Attended One-Week Online National Faculty Development Program/Certificate Program on "Teachers as Mentors for Student Internships on CANCER AWARENESS", 05th July to 11th July 2022 Organized by Guru Angad Dev Teaching Learning Center, University of Delhi, PMMMNMTT, Ministry of Education.

- Attended Five-Day Gender Sensitization Program on “Gender Equality and Women’s Sustainable Development in India: Opportunities and Challenges” organized by Women's Studies Centre, Madurai Kamaraj University, Madurai in collaboration with University Grants Commission ,New Delhi from 31st July to 05 August 2020.
- Attended one week online workshop ‘Holistic Approach towards Research in Pandemic Conducted by SHODH Haryana in coloration with Department of Genetics, M.D. University, Rohtak from 27th June to 3rd July, 2020.
- Attended three days training course on Real Time PCR held in Applied Biosystem, Gurgaon on 3-5th August 2011.
- Attended Short term training course in the department of Anatomy from 1st to15th July, 2006 held at All India Institute of Medical sciences (AIIMS), New Delhi
- Attended training course on “DNA Based Diagnostics” organized by Animal Biotechnology CCS, Haryana HAU, from 7th to 28th Feb, 2006.
- Attended training in “Livestock Genome Analysis Laboratory” at NDRI Karnal from 2nd March to 30th April 2005.