

RESUME



Name: : Dr. Neelkamal
Husband's Name: : Devender Sharma
Date of birth : 20 - 4- 1978
Work Address: : Neelkamal, Assistant Professor
: Department of Genetics,
M. D. University,
Rohtak-124001, Haryana, India
E. mail: neelgenetics@yahoo.com

Academic Qualification: M. Sc. & Ph. D. Genetics (Biosciences)
Academic Distinctions : NET/JRF Awarded by CSIR-UGC, in 2003
CSIR-UGC JRF 2004-05 (Fellowship)
CSIR-UGC, SRF 2006-2007(fellowship)

Seminars /conference/workshops & Training Courses attended only:

1. Attended National workshop on towards facing challenges of the mentally challenged their Achievement and its alleviation from Feb. 12-13, 2005.
2. Attended Training course on cytogenetics NDRI (Deemed University, Deptt. livestock genome analysis lab from March 2 to 30 April 2005.
3. Training on cytogenetics and FISH culture from Sir Ganga Ram Hospital, New Delhi from July 5 to 29, 2006.
4. Workshop on patent awareness organized by PIC Hissar in collaboration with TIFAC on December, 2005.
5. Workshop on Recent Trends in Nanotechnology held at Department on Engineering and technology, MDU, Rohtak on March 27, 2007
6. One day India-Japan seminar on "Nanomaterials for Diagnostics and therapeutics" organized by Department of Biochemistry , M.D University Rohtak on 30 October 2010.
7. National conference on Thermodynamic of chemical & biological system, on 3-5 nov, 2011 in Deptt. of chemistry, MDU Rohtak.
8. National seminar on "Intellectual Property - Creation and Protection"-23rd April, 2011, Advance Centre of Biotechnology, Dept. of Microbiology, M.D.U, Rohtak.
9. National seminar on "Recent advancement in application of Genetics" held on-20 march, 2012, Genetics Deptt., M.D.U, Rohtak.

10. International Research Colloquium on Advances in Microbial Biotechnology: Future Prospects (AMBF-2012), organized by deptt. of microbiology & association of microbiologist of India-Rohtak unit, M D U, Rohtak on 20th November, 2012.
11. International conference on “Next revolution in Genetics & Genomics- Applications in Health & Disease” held in RML hospital New Delhi on 27-29 January, 2013.
12. National seminar on “Novel antimicrobials: An alternative to clinical antibiotics” held on-14 Sept, 2013, Genetics Deptt., M.D.U, Rohtak..
13. National Seminar cum Workshop: Discovery of new concept in Genetics and molecular Biology held on October 25, 2013. Organized by Deptt. of Genetics, M.D.University, Rohtak.
14. National Seminar: Next generation Sciences: Vision 2020 and beyond held on March 8, 2014. Organized by Deptt. of Zoology, M.D.University, Rohtak.
15. National Conference: Molecular pathology of human Genetic diseases held on August 23, 2014. Organized by Deptt. of Genetics, M.D.University, Rohtak.
16. National Seminar: Convergence of Biotechnology & Engineering for industry (CBEI-2014) held on November 26, 2014. Organized by Deptt. of Biotechnology, M.D.University, Rohtak.
17. International Research Colloquium on Interdisciplinary scope of microbiology: Present status & future directions (IRCISM-2015), organized by deptt. of microbiology, M D U, Rohtak on 31st January, 2015.
18. National Conference: Therapeutic potential of natural products :Current innovation & future trends held on March 19th, 2015. Organized by Deptt. of Genetics, M.D.University, Rohtak.
19. Workshop: Women’s visibility & space held on 11th, Feb, 2016. Organized by women’s Studies Centre, M.D.University, Rohtak.
20. National Workshop: Advanced aspects of crime scene investigation & fingerprint Examination held on Nov, 21st, 2015. Organized by Deptt. of Genetics, M.D.University, Rohtak
21. Workshop: “Save ozone layer : Protect life, held on Sept 16,2016, in Deptt. of Environmental science, M.D.University, Rohtak.
22. 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.
23. Workshop: “Coping health issues, held on 23rd, Feb, 2017. Organized by women’s Studies Centre, M.D.University, Rohtak.
24. Workshop: “All India Survey of higher education, held on 17 march,2017. Organized by AISHE cell of M.D.University, Rohtak.

25. National Conference: Emerging Trends in Biochemistry(ETIB2017) held on March 15-16th, Sept, 2017. Organized by Deptt. of Biochemistry, M.D.University, Rohtak.
26. National Workshop on 'Intellectual Property Right 'held 3rd Nov, 2018 organized by Department of Genetics, M.D University Rohtak.
27. National Workshop on ' Bioethics in research: A need or compulsion 'held on 15th Nov, 2018 organized by Department of Genetics, M.D University Rohtak
28. Workshop on 'User centric content to Empower Knowledge' held on 4th, Sept, 2018. Jointly Organized by M.D.University, Rohtak & Elsevier.
29. National Seminar on "Data Analysis & interpretation in Scientific Research" held 9th Nov, 2019 organized by Department of Genetics, M.D University Rohtak.

Paper Presented in Seminars /conference

1. Poster paper presentations on "Down syndrome with mosaicism in a girl child" in Indian Science Congress, 3-7 January, 2007.
2. Poster paper presentations on "Study of different traits of dermatoglyphics in normal population" in Indian Science Congress, 3-7 January, 2007.
3. Oral presentation on cytogenetics of Down syndrome patients in seminar on Biological Science held by university college, MDU Rohtak on 12-13 March, 2008.
4. Presented a paper on Prevalence & maternal age in Down syndrome in National conferences on Medical Biotechnology- vision 2020. from 16-18 April, 2010.
5. Oral presentation on "phenotypic & dysmorphic variability in Down syndrome patients" in National conference on multidisciplinary approach in frontier area of environmental science & engineering held on 4th-5th march, 2011 in environmental science & engineering of GJU Hissar.
6. Presented a paper on "Issues & challenges of forensic science education in India" in a national conference held on 12th March, 2011 by Deptt. of IMSAR, MDU Rohtak.
7. Oral presentation on "Morphogenetic Variation among Down syndrome patients" in national seminar on internet application in research" held on 26th march, 2011 by Zoology deptt. MDU Rohtak.
8. Poster presentation on "Forensic science research & internet tools" in national seminar on internet application in research" held on 26th march, 2011 by Zoology deptt. MDU Rohtak.
9. Presented a paper on Hematopoitic Stem cell Malignancy: Acute Leukemia's in National seminar on scientific development for human welfare: promises& concerns on February 10-11, 2012, in JVMGRR(PG) College, Charkhi Dadri, Bhiwani.
10. Presented a paper on "Phenotypic Mapping & Cytogenetic characterization of . Down Syndrome Patients From Haryana State" in International conference on "Gene, Genetics & Genomics: Today & tomorrow –Human concern" held on 3-5 march, 2012 by Punjab University, Chandigarh.

11. Presented a paper on “A Review on Issues & Challenges In Forensic Biology & Serology ” in national symposium on “ Education & Research in Forensic Sciences: Issues & Challenges.” held on 15-16 march, 2012 by Punjabi University, Patiala.
12. Presented a paper on “Associated Medical Problems for Down Syndrome“ in International Symposium on Developmental & complex disorders held in BHU, Varanasi on 9-11 December, 2012.
13. Presented a paper on “I.Q. levels & phenotypic variability in Down syndrome “ in Indian Science Congress held in Kolkata on,3-7 January, 2013.
14. Presented a paper on Prenatal & postnatal History in Down syndrome in National Seminar: Next generation Sciences: Vision 2020 and beyond held on March 8, 2014. Organized by Deptt. of Zoology, M.D.University, Rohtak
15. Presented a paper on ‘Phenotype & Dermatoglyphis In Down Syndrome’ in National Seminar: Innovative researches in Life Sciences on February 21, 2015. Organized by Deptt. of Zoology, M.D.University, Rohtak
16. Presented a paper on ‘Introduction to Environmental Forensic’ in National Seminar: Today’s Vision : save ozone, save earth on, September 16, 2015. Organized by Deptt. of Environmental science, M.D.University, Rohtak.
17. Poster presentation on ‘Microscopic examination and comparison of hair characterization of some domestic species with selected wild species in National Conference on ‘ Genetic diversity and therapeutic potential of Natural Products organized by Department of Genetics, M.D University Rohtak, September 17, 2016.
18. Poster presentation on ‘DNA Barcoding & their utility in Biodiversity conservation” in National Seminar on ‘Bio diversity: Status & significance’ organized by Department of Botany, M.D University Rohtak, 21st march,2017.
19. Poster presentation on ‘Species identification through Forensically Informative Nucleotide(FINS)’ : in National Seminar on Current scenario in Forensic Investigative Technique’ organized by Department of Genetics, M.D University Rohtak, 7th Sept.,2017.
20. Oral presentation on ‘A Forensic study for the identification of species specific DNA markers as DNA barcode of the Indian Blackbuck from Haryana’ : in International conference’ on ‘Sustainable, Agriculture, Energy, Environment & Technology(ICSAEET-2018)organized by M.D University Rohtak, on 24-25 Feb., 2018.
21. Poster presentation in a national seminar on ‘A Forensic Study On Inheritance And Variability of Handwriting Features Amongst English Language Writers’ : in international seminar on ‘Sustainable Environment & Agriculture Under Global Climate Change’ organized by M.D University, Rohtak on 21 Feb 2019.
22. Poster presentation on "Physical characterization of soil : A Forensic Study" in "International conference-2019(ctm-2019),Current trends in microbiology and microbiome research: a global

perspective" held on 11-12th october 2019 organised by inscr & Department of microbiology M D university, Rohtak

List of Publications:

1. Minakshi Vashist., **Neelkamal** and Ritu Yadav. 2008. Phenotypic variability and delayed development in Down syndrome patients of Haryana. *Journal of cytology & Genetics*. 9: 47-53.
2. Minakshi Vashist., Ritu Yadav., **Neelkamal**, and Amit Kumar. 2008. Evaluation of Digital configuration of mentally retarded patients. *National Journal of Life Sciences* Vol.5 (2) PP 295-298.
3. Minakshi Vashist., **Neelkamal**., Ritu Yadav, and Meena Lal. 2009. Trisomy- T (21; 21) with mosaicism in a Down Syndrome girl child: case report. *International Journal of Human Genetics*. Vol .9 No.2 pp105-107.
4. Minakshi Vashist, **Neelkamal**, Shivani Kachroo, and Ritu Yadav. 2009. Atd angle: A **diagnostic tool in Down Syndrome Patients. National Journal of Life Sciences. Vol. 6(1), pp. 93-97.**
5. 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* Vol (4), No. 1.(ISSN-1939-4594).
6. Minakshi Vashist., Ritu Yadav., **Neelkamal**, Radha Rathee, Shiksha Sharma. 2010. Dermal pattern of Haryana population. *National Journal of Life Sciences*. Vol.7 (1) PP 63-66. (0972-995X).
7. Minakshi Vashist,Ritu Yadav, **Neelkamal** & Radha Rathee. 2011. Dankmeijer's Index (D.I.) in Mental Retardation. *The Internet Journal of Biological Anthropology*. Vol. 4 Number 2. (ISSN-1939-4594).
8. Minakshi Vashist, **Neelkamal** & Amit Kumar. 2011. Whether paternal age exist as a risk factor in trisomy 21. *Biosciences Biotechnolgy Research Asia*. Vol.8 (1), 321-324. (0973-1245).
9. Minakshi Vashist, Amit Kumar & **Neelkamal** 2011. Evaluation of prenatal, postnatal & neonatal causes as the risk factors for patients with different I.Q. level of mental retardation. *Biosciences Biotechnolgy Research Asia*. Vol.8(1), 247-252, (0973-1245).
10. Minakshi Vashist, Shivani Kachroo, **Neelkamal** & Ritu Yadav 2011. Improvisation in PCR for amplificationof GC rich sequences (CGG Repeats) in PARAX gene in human. *International J.of Biotechnolgy & Biosciences*. Vol.1(3) July-Sept., 247-252. (ISSN 22310304).
11. Ashok Kumar, Radha Rathee, Minakshi Vashist, **Neelkamal**, Sunita Singh & Sumiti Gupta 2012. Acute Lymphocytic Leukemia :An Epidemiological & Hematological study from Haryana. *Biosciences Biotechnolgy Research Asia*. Vol.9 (2) 813-817.(0973-1245).

12. Ashok Kumar, Minakshi Vashist, Radha Rathee, **Neelkamal**. Dermatoglyphics in children of acute lymphocytic leukemia from Haryana. *International Journal of Biotechnology and Biosciences*, 2012; 2(4): 272-75. (ISSN 2231 – 0304)
13. Minakshi Vashist, **Neelkamal**, Ritu Yadav, Amit Kumar, Shiksha Sharma and Radha Rathee. 2012. Dermatoglyphics - A Diagnostic Tool In Trisomy–21. *J. Applied Biosciences*, 38(2): 1-22, 146-150. (ISSN (Online) 0975-864X).
14. M. Vashist and **Neelkamal**.2013.Maternal age: a controversial factor in trisomy 21.*Rev Med Int Sindr Down*,**17(1)**:8-12. ISSN: 1138-011X.
15. Neelkamal ,Radha Rathee. Nov 2013. AcuteLymphoblastic Leukemia: Characterization and its Prognostic Values. *International Journal of Pharma Research & Review*,2(11):27-36. ISSN: 2278-6074.) **IC Value-5.15, Impact Factor = 3.6**.
16. M. Vashist, Neelkamal & kirti Grow.2013. Does any correlation exist between I.Q levels, Diagnosis Age & Morphological parameters in Down Syndrome Patient? *International Journal of Theoretical & Applied Sciences*,5(2) , 79-83. ISSN No. (Online): 2249-3247.
17. Radha Rathee, **Neelkamal**, Ashok Kumar, Minakshi Vashist, Ritu Yadav. June 2014; Dermatoglyphic patterns of Acute Leukemia patients. *International Research Journal of Biological Sciences*, 2014; 3(6):90-93. (ISSN No.2278-3202). **Impact Factor = 1.269**.
18. **Neelkamal**, Jyoti & Rinki. July, 2015. Estimation of sex from footprints using standard footprints length formula, heel ball index & foot Index. *Indian Journal of Forensic medicine & Toxicology*, 9(2): 8-12. (ISSN No. 0973-9122P & ISSN No. 0973-9130 E).
19. **Neelkamal**,Radha Rathee, Minakshi Vashist, Ashok Kumar. (2015).Environmental Factors as causative agents for Acute Lymphoblastic Leukemia. *Europian J. of Biomedical & Pharmaceutical sciences*, Aug,2015; 3(6):90-93. (ISSN No.2278-3202). **Impact Factor = 2.062**.
20. Kumar Vikas and Neelkamal.(2015). **Wildlife DNA Evidence: Recognition, Collection and Preservation**. 2015. *Res. J. Forensic Sci.*, 3(7),8-15. (ISSN : 2321 – 1792).
21. Neelkamal, Jyoti, Divya, Jyoti Sharma. . (2015). **Cheiloscopy: A Tool For Sex Identification**. *International Journal of Forensic Science & Pathology*, *July-December, 2015, Vol. 9, No. 2. 193-198*. (ISSN: (0973-9122).
22. **Vikas kumar** , **Neel kamal** and **Arun sharma**. (2017). DNA barcoding as a wildlife forensic tool (WFT) for species identification: a case study on blackbuck (Antilope Cervicapra) in India. *Int. J. Adv. Res.* 5(6), 1283-1287. (ISSN: 2320-5407) .
23. Kusum Singal, Neelkamal . (2017). Dental radiology: an adjunctive aid in age estimation. *Annals and Essences of Dentistry*. 9(3): 8c-11c. ISSN: 0976-156X.
24. Singal K, **Sharma N**, N Preeti. Usage of Open Access Computer Image Editing Software (Adobe Photoshop) in Forensic Dentistry. *J Forensic Sci & Criminal Invest*. 2018; 7(4): **ISSN:2476-1311**, Impact Factor=0.793

25. Kumar V, **Sharma N**, Sharma A, Verma K, Singal K, Kumar M. A data-based study in support of Blackbuck related cases from Haryana. Data in brief. 2018; 7:1196-1200. ISSN:2352-3409, Impact Factor=0.93
26. Kumar V, Sharma N, Singal K, Sharma A. A Wildlife Forensic Study for the Species Identification of Indian Blackbuck Through Forensically Informative Nucleotide Sequencing (FINS). Biosci Biotech Res Asia 2018;15(1). ISSN: 0973-1245,Impact Factor= 0.139
27. Sunil Singh, Kusum Singal, Arun Sharma, **Neelkamal Sharma**. NDPS Cases in Kangra, Kullu, Una and Hamirpur During 2013-2017- A Retrospective Study, J Punjab Acad Forensic Med Toxicol 2018;18(2):42-44. ISSN: 0972-5687, Impact Factor= 0.139
28. Kusum Singal, Neelkamal Sharma, **Vikas Kumar** and Permila Singh Coronal pulp cavity index as noble modality for age estimation: a digital image analysis. Egyptian Journal of Forensic Sciences (2019)9:42. ISSN: 2090-5939, Impact Factor= 1.152
29. Kusum Singal, Neelkamal Sharma, S.C. Narula, **Vikas Kumar**, Permila Singh, V.J.Munday. Evaluation of age by Kvaal's modified measurements (KMM) using computer-aided imaging software and digitized parameters. Forensic Science International: Reports. 2019:1. ISSN: 2665-9107
30. Kusum Singal, Neelkamal Sharma, S.C. Narula, Vikas Kumar, Permila Singh. Age Estimation Using Non Destructive Approach: A Comparative Forensic Analysis. Journal of Panjab academy of Forensic medicine & Toxicology. 2019:19(1)29-34. ISSN: 0972-5687, Impact Factor=0.139
31. Kusum Singal, Neelkamal Sharma, Permila Singh, Vikas Kumar, Punia, Neha; Yadav, MonikaPulp/Tooth Area Method: A Potential Statistical Tool for Age Estimation Using Digital Dental Radiographs. Indian Journal of Forensic Medicine & Toxicology. 2019:13(2)228-233. ISSN: p-0973-9122, Impact Factor= 0.142
32. Singal K, Sharma N, Singh P, Kumar V. Teeth as an anatomical modality for age estimation using radiographic approach. J. Anat Soc India. 2019; ISSN: 0003-2778,Impact Factor=0.195
33. Singal K, Kaidan R, Singh S, Narwal P, Sharma N. Dental practitioners: - Are they real patrons of forensic odontology? J Indian Acad Forensic Med. 2019 Jan-Mar; 41(1):42-44. (ISSN: 0971-0973),Research Impact Factor=0.05

No. of Abstracts - 25

Papers in reviewed proceeding of national seminar

1. **Neelkamal** & Minakshi vashist "Morphogenetic Variation among Down syndrome patients." In proceeding of national seminar on internet application in research held on 26th march, 2011 by Zoology deptt. MDU Rohtak. (Published in Nov, 2011)16-18. (ISBN – 978-81—920945-1-9).

2. **Neelkamal** & Sapna Sharma “Forensic science research & internet tools” In proceeding of national seminar on internet application in research held on 26th march, 2011 by Zoology deptt. MDU Rohtak. (Published in Nov, 2011)59-60. (ISBN – 978-81—920945-1-9).
3. Sapna sharma, Minakshi Vashist & **Neelkamal**. “Internet as a tool in genetics research.” In proceeding of national seminar on internet application in research held on 26th march, 2011 by Zoology deptt. MDU Rohtak. (Published in Nov, 2011)24-25. (ISBN – 978-81—920945-1-9).
4. **Neelkamal**, Radha Rathee, Minakshi vashist & Vikas Kumar..“Phenotype & Dermatoglyphics in Down syndrome patients.” In proceeding of national seminar on innovative researches in life science on 21stFeb., 2015 by Zoology deptt. MDU Rohtak. (Published in Nov, 2015)115-117. (ISBN – 978-81—920945-5-7).

Participate in orientation course:

Participated in VIth Orientation Course from 13.12.2010 to 1.11.2011 at the Academic Staff College of B.P.s Mahila Vishwavidyalaya, Khanpur Kalan, Sonapat &

Awarded as Adjudged most punctual participant at VIth orientation programme held at B.P.S. Mahila Vishwavidyalaya, Khanpur Kalan, Sonapat (Haryana)

Participation in refresher course;

1. Participation in UGC sponsored refresher course in life sciences from 9.12.2014 – 30.12.2014 at the Center for professional development in higher education University of Delhi, New Delhi.
2. Participation in UGC sponsored refresher course in Information Communication Technology(ID) from 19.11.2016 – 10.12.2016 at the Academic Staff College of B.P.s Mahila Vishwavidyalaya, Khanpur Kalan, Sonapat.

Participation in Short Term course;

1. Participation in UGC sponsored Short term course on ‘Disaster Management’ from 17.12.2018 – 21.12.2018 at the Academic Staff College , JNU, New Delhi.
2. Attended UGC sponsored Short term course on ‘E- Learning Technologies’ from 18.7.2019 – 24.7.2019 at the FDC, MD University, Rohtak.
3. Participation in one-week online Workshop “Holistic Approach towards Research in Pandemic” conducted by SHoDH Haryana in collaboration with Department of Genetics, Maharshi Dayanand University, Rohtak from 27th June -3rd July, 2020.

Projects

- **Major Project completed (2011-2014)** “Characterization of cytogenetics & pathology in prognosis of Acute Lymphocytic Leukemia.(Grant – 11,39,293).”

Funding agency-UGC

- **Minor Project Ongoing (May-Dec,2019)** “ Morphological Characterization of Soil Samples as a Physical Evidence”.Funding agency: DSW,MDU, Rohtak. Grant : 50,000/ Reference No.-reference to letter no.: DSW/19320, Dated 8/5/19.

Life Membership

Life member of Indian Society of Human Genetics (ISHG).

Life member of Indian Science Congress Association (ISCA).

Conference /Seminar Organized

1. Joint organizing secretary in National Seminar o Recent Advancement in Application of Genetics, organized by Deptt. of Genetics on 20th march, 2012.
2. Joint organizing secretary of seminar conducted by Deptt. on “Novel antimicrobials: An alternative to clinical antibiotics” held on-14 Sept, 2013, Genetics Deptt., M.D.U, Rohtak.
3. Joint organizing secretary in National Seminar cum Workshop: **Discovery of new concept in Genetics and molecular Biology** held on October 25, 2013. Organized by Deptt. of Genetics, M.D.University, Rohtak.
4. Joint organizing secretary in National Conference: **Molecular pathology of human Genetic diseases** held on August 23, 2014. Organized by Deptt. of Genetics, M.D.University, Rohtak.
5. Joint organizing secretary in National Conference: **Therapeutic potential of natural products :Current innovation & future trends** held on March 19th, 2015. Organized by Deptt. of Genetics, M.D.University, Rohtak.
6. Organizing secretary in National Workshop: **Advanced aspects of crime scene investigation & fingerprint Examination** held on Nov, 21st, 2015. Organized by Deptt. of Genetics, M.D.University, Rohtak.
7. Joint organizing secretary in National Conference in ‘Genetic diversity and therapeutic potential of Natural Products’ organized by Department of Genetics, M.D University Rohtak, September 17, 2016.
8. Joint organizing secretary in one day conference cum workshop on ‘**Skill development in molecular techniques**’ organized by Dept. Of Genetics & M. D. University, Rohtak, on 12 November,2016.
9. Organizing secretary in National Seminar: **Current scenario in Forensic Investigative Technique**’ held on 7th Sept, 2017. Organized by Deptt. of Genetics, M.D.University, Rohtak.
10. Joint organizing secretary in National Workshop in ‘DNA Forensics- The Brouhaha or the Science’held on21st ,Nov, 2017 organized by Department of Genetics, M.D University Rohtak.
11. Organizing secretary in National Workshop in ‘Intellectual Property Right’held 3rd Nov, 2018 organized by Department of Genetics, M.D University Rohtak.
12. Joint organizing secretary in National Workshop in ‘Bioethics in research: A need or compulsion’held on 15th Nov, 2018 organized by Department of Genetics, M.D University Rohtak.

