

## *CURRICULUM VITAE*



### **DR. NEELAM SEHRAWAT**

Assistant Professor,  
Department of Genetics,  
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#### *Educational Qualification*

Standard	Year	Board/ University	% age	Division	Subject(s)
Metric	1999	B.S.E.H	81	I <sup>st</sup>	Maths, English, Science, Social Science, Hindi, Ph. education etc.
Sr. Sec.	2001	C.B.S.E	62	I <sup>st</sup>	Biology, Maths, English
Graduation	2004	M. D. University, Rohtak	67	I <sup>st</sup>	Zoology, Botany, Chemistry
Post Graduation	2006	M. D. University, Rohtak	70	I <sup>st</sup>	Biotechnology
Doctorate	2012	M. D. University, Rohtak		-	Biotechnology
Post Doctorate	-				
Any Other	CSIR-UGC, NET June-2006				Life Science
	UGC-RGNF- JRF, 2009				

#### *Additional Qualification*

- \* CSIR-UGC-NET (June 2006) Qualified.
- \* University Research Scholarship 2007 qualified.
- \* Rajiv Gandhi National Fellowship (JRF).
- \* STET, 2009 qualified.

### *Professional*

Total teaching experience : ~ 10 Years  
Total research experience : ~12 years (Malarial Genetics)

### *Administrative and Academic Contribution*

1. Member of PGBOS of the department.
2. Member of Faculty of Life Sciences.
3. Member of Departmental IQAC committee.
4. Member of Departmental committee.
5. Member of Departmental cultural committee.
6. Member of Departmental research Committee (DRC, 2017)
7. Member of PGBOS (2013-2015)
8. Member of inspection committee for B.ed College.
9. Invigilator in various National level Exams.
10. Member in Departmental NAAC committee
11. Member in Central Purchase Committee.

### *Details of Employment*

Duration	Institution	Designation	Nature of work
2008-2010	Maharshi Dayanand University	Guest faculty	Teaching
2010- cont.	Maharshi Dayanand University	Assistant Professor	Teaching & Research

*Name of Present Employer* : Maharshi Dayanand University

*Pay Drawn & Scale of Pay* : Rs.84800/-

### *Conference/ Workshop/ Symposium Organized*

1. Member of organizing committee in DST-Inspire internship programme from 28<sup>th</sup> April-2<sup>nd</sup> May, 2012.
2. Organizing secretary in National Seminar on Recent advancements in Application of Genetics, organized by Dept. of Genetics on 20<sup>th</sup> March, 2012.
3. Member of organizing committee of National Seminar on Fight against Malaria on 9<sup>th</sup> March, 2013.
4. Joint-organizing secretary in National seminar on Novel antimicrobials: An alternative to Clinical Antibiotics on 14<sup>th</sup> September, 2013.
5. Joint-organizing secretary in seminar on Discovery of New Concepts in Genetics and Molecular Biology on 25<sup>th</sup> October, 2013.

6. Organizing Secretary in One day National Seminar on “Molecular Pathology of Human Genetic Diseases” held on August 23<sup>rd</sup>, 2014 at Radha krishnan Auditorium, MDU Rohtak
7. Joint Secretary in National Workshop on “Advanced Forensic Aspects of CSI & Fingerprint Examination” held on November 21, 2015 at Deptt. of Genetics, MDU Rohtak
8. Treasurer in National Conference on “Therapeutic Potential of Natural Products: Current Innovations & Future Trends” held on March 19, 2015 at DDE Hall MDU Rohtak
9. Treasurer in National Seminar on “Current Scenario in Forensic Investigative Techniques” held on September 7<sup>th</sup>, 2017 at DDE Hall MDU Rohtak.
10. Joint Secretary in National Workshop on “DNA Forensics- The Brouhaha or The Science” held on November 21<sup>st</sup>, 2017 at Deptt. of Genetics, MDU Rohtak
11. Joint- Organizing secretary in National Workshop on IPR, 3<sup>rd</sup>, November, 2018.
12. Organizing secretary in National Workshop on Social Ethical Issues , 15<sup>th</sup> Nov, 2018.

*Conference/ Workshop/ Symposium participated*

**International**

1. Attended 6<sup>th</sup> World Congress on Biotechnology organized by OMICS Internationalgroup, October 5-7, 2015 at Delhi, India.
2. 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.
3. Poster presented on “Scanning Electron Microscopy of *Anopheles fluviatilis* eggs” in Internationalsymposium on vector and vector borne diseases at Puri, Orissa in 15<sup>th</sup>-17<sup>th</sup> Feb, 2008.

**National**

1. National seminar on “Molecular Pathology of Human Genetic Diseases”, Aug 23<sup>rd</sup>, 2014, Dept. of Genetics, M.D. University, Rohtak
2. 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.
3. Attended one day workshop on ‘Author workshop’ organized by Springer & M. D. University, Rohtak, on Feb. 25, 2015.
4. National Conference on “Therapeutic Potential of Natural Products: Current Innovations & Future Trends (under UGC-SAP Programme)”, Mar 19<sup>th</sup>, 2015, Dept. of Genetics, M.D. University, Rohtak.
5. National workshop on Medical Bioinformatics on 13-14th December, 2013 organised by Centre for Bioinformatics, M. D. University, Rohtak.

6. National Seminar on Stem Cell Technology on 1st March, 2014 organised by Centre for Bioinformatics, M. D. University, Rohtak.
7. National workshop on Genomics and Proteomics on 3-5th march, 2014 organised by Department of Biochemistry, M. D. University, Rohtak.
8. Presented a poster titled Genome wide analysis of TRAP (Thrombospondin related anonymous protein) family in *Plasmodium falciparum* in 54<sup>th</sup> Annual Conference of Association of Microbiologists of India (AMI 2013). Platinum Jubilee Celebrations of Association of Microbiologists of India (Estd: 1938) & International Symposium on Frontier Discoveries and Innovations in Microbiology and its Interdisciplinary Relevance. Organized by Department of Microbiology, M. D. University, Rohtak. November, 17-20, 2013.
9. Two weeks Laboratory training Course on Application of Genomics Technologies in Malaria research from 18<sup>th</sup> Nov, to 1<sup>st</sup> December, 2012 organized by NIMR, New Delhi.
10. 2<sup>nd</sup> National seminar on Microbes in Human Welfare organized by Dept. of Microbiology, M. D. U, Rohtak on 24<sup>th</sup> March, 2012.
11. National seminar on Challenges in Combating Diseases: Cause to cure, by Dept. of Zoology, M. D. U, Rohtak on 23<sup>rd</sup> March, 2012.
12. 1<sup>st</sup> National seminar on Microbes and Resource Management organized by Association of Microbiologist of India- Rohtak Unit, M. D. U, Rohtak on 22<sup>nd</sup> October, 2012.
13. India-Japan seminar October 30<sup>th</sup>, 2010, Department of Biochemistry, M.D.U, Rohtak.
14. National conference on Environmental and Health issue: in a changing climatic scenario from 14-15<sup>th</sup> October, 2010, Department of Environmental Sciences, M.D.U, Rohtak.
15. National Workshop on Bioinformatics from 14-16<sup>th</sup> Sept, 2010, Advanced Centre for Biotechnology, M.D.U, Rohtak.
16. Colloquium on Microbial Technology for Human Benefits 07-08-2010, M.D.U, Rohtak.
17. National Seminar on Environmental Challenges: Sustainable Development (29-30 March, 2010), Department of Environmental Sciences, M.D.U, Rohtak.
18. National Conference on Medical Biotechnology-Vision 2020 on 16-18<sup>th</sup> April, 2010, Advanced Centre for Biotechnology, M.D.U, Rohtak.
19. National Seminar on Commuting Life: Raw to Refined, Department of Zoology, M.D.U. Rohtak.
20. Conference held on "latest trends in Nanotechnology" at M.D.U. Rohtak in March, 2007.

## Paper presented

1. **Sehrawat** N. Poster presented on “Molecular characterization and In-silico analysis of *Chymotrypsin 1* gene in vector *Anopheles stephensi*” in International Conference on vector and vector borne diseases at Bhubaneswar, Odisha in 9<sup>th</sup> - 11<sup>th</sup> January, 2018.
2. **Sehrawat** N. Paper presentation on “Comparative analysis of glucose fed and bloodmeal induced proteins of *Anopheles culicifacies* midgut by 2-D electrophoresis” in International conference ‘Sustainable agriculture, energy, environment and technology (ICSAEET-2018) organised by Department of Environmental Sciences on February, 24-25, 2018.
3. **Sehrawat** N. Paper presentation on “Diversity of vector borne diseases” in National Seminar ‘Biodiversity: Status and Significance, organized by Department of Botany, MDU, Rohtak on 21<sup>st</sup> March, 2017.
4. **Sehrawat** N. Paper presentation on “Molecular Evolution of Antimicrobial Peptide- Cecropin In Mosquitoes” in National Seminar ‘Innovative researches in Life sciences’ organized by Department Zoology, M.D University Rohtak, 21 February, 2015.
5. **Sehrawat** N. Poster presentation on “Bioinformatics analysis of cecropin multigene family in *Anopheles gambiae* pest strain” in National Conference ‘Therapeutic Potential of Natural Products : Current Innovations & Future Trends’ organized by Department of Genetics, M.D University Rohtak, 19<sup>th</sup> March, 2015.
6. Paper presented at National seminar on Global Challenges – Role of Sciences and Technology in Giving Their Solutions on 3-4<sup>th</sup> March, 2012 entitled ‘Approaches for Malaria Control’ organized by TITS, Bhiwani.
7. Poster presented and abstract published at National Conference on "Biodiversity: Challenges and Opportunities" on 18-19<sup>th</sup> February, 2011, Department of Botany, M.D.U, Rohtak.
8. Paper presented and published in HEC Seminar on Advanced Biological Science held in March, 2008.

## Academics

Research Papers Published	:	7
Communicated	:	4

Manoj Chugh, T Adak, **Neelam Sehrawat** & S K Gakhar (2011) Effect of anti-mosquito midgut antibodies on development of malaria parasite, *Plasmodium vivax* and fecundity in vector mosquito *Anopheles culicifacies* (Diptera: culicidae). *Indian Journal of Experimental Biology*. 49: 245-253.

**Sehrawat, N.** & Gakhar, S. K. Genome Wide Analysis of Cecropin Multigene Family in *Anopheles gambiae* Pest Strain. *Journal of Advanced Bioinformatics*

Applications and Research 15, 163-171 (2014). ISSN: 0976-260.

**Sehrawat, N. & Gakhar, S. K.** Mosquito Proteomics: Present and Future Prospective. Research in Biotechnology 5, 25-33 (2014). ISSN: 2229-791X.

**Sehrawat, N.** Scanning Electron Microscopic Observations of Eggs of *Anopheles fluviatilis* (T) Mosquito (Diptera: Culicidae). Research and Reviews: Journal of Zoological Sciences 2, 6-12 (2014). ISSN: 2321-6190

**Sehrawat, N. Singh, H. and Gakhar, S.K.** Comparative In-silico analysis of *Plasmodium vivax* Sal-I and Human MCM Protein family. RJLBPCS, 4(4): 73-91. ISSN: 2454-6348.

Jakhar R, Kumar P, **Sehrawat N**, Gakhar SK. Immunoinformatics prediction for designing potential epitope-based malaria vaccine in the Aminopeptidase N1 protein of *Anopheles gambiae* (Diptera: Culicidae). International Journal of Mosquito Research. 2019; 6(4):10-21.

Jakhar R, Kumar P, **Sehrawat N**, Gakhar SK. A comprehensive analysis of aminopeptidase N1 protein (APN) from *Anopheles culicifacies* for epitope design using Immuno-informatics models. Bioinformation. 2019; 15(8): 600-612.

***Extramural Research Projects***

Major Research Projects : 2  
Minor Research Project : 1

Year	Funding Agency	Title
(i) 2013-16	UGC	Midgut proteome in Indian malaria vector <i>An. culicifacies</i> (Diptera: Culicidae)
(ii) 2012-17	DBT-IPLS	Proteomic analysis of malaria parasite and its vector under different physiological conditions.
(iii) 2017-18	RK-Fund, MDU	Molecular characterization of midgut specific <i>Chymotrypsin</i> gene in Indian malaria vectors

***Ph. D students under supervision*** : 4  
***M.Sc. dissertation under supervision*** : 20

*Life membership* : National Academy of Vector Borne Disease

*Orientation/ Refresher courses*

- \* Attended Orientation programme organized by Academic Staff College, G. J. U. Hisar from 1<sup>st</sup> December-28<sup>th</sup> December, 2011.
- Attended 15th refresher programme in Biotechnology organized by Academic Staff College, J.N.U., New Delhi from 16<sup>th</sup> July – 9<sup>th</sup> August, 2013.
- Attended 2<sup>nd</sup> refresher programme in Environmental studies (ID) organised by UGC-Human Resource Development Centre, BPS, Khanpur Kalan from 01/07/2016 to 22/07/2016 .
- Attended 1<sup>st</sup> Short term programme in Disaster Management organized by Academic Staff College, J.N.U., New Delhi from 17<sup>th</sup> to 21<sup>st</sup> December, 2018.
- Attended One week Short term course on Gender Sensitization organized by UGC-Human Resource Development Centre, BPS, Khanpur Kalan from 25<sup>th</sup>-31<sup>st</sup> March, 2019.

(NEELAM SEHRAWAT)

Date: