

**Career Objective-**

To achieve a challenging position in research, where acquired skills and education will be utilized towards continual growth and advancement of the profession. Willing to work as a key player in a challenging & creative environment.

**PUBLICATIONS**

1. **Sunil Kumar**, Veena Vishwakarma, Bharti Yadav, Ranjan Gupta, Neeraj Aggarwal & Anita Yadav (2020) Antigenotoxic Effects of Epigallocatechin Gallate against Hair Dye Induced Genotoxicity in Cultured Human Peripheral Blood Lymphocytes, *Journal of Biologically Active Products from Nature*, 10:2, 141-152, DOI: 10.1080/22311866.2020.1764866 (**IF:5.632**)
2. **Sunil Kumar**, Veena Vishwakarma, Bharti Yadav, Ranjan Gupta, Neeraj K. Aggarwal and Anita Yadav (2020). Evaluation of antigenotoxic potential of beet root extract against hair dye induced genotoxicity. *International Journal of Pharmaceutical Science and Research*; Vol. 11(4): 1874-1878 (**IF: 1.230**)
3. Veena Vishwakarma, **Sunil Kumar**, Bharti Yadav, Ranjan Gupta, Neeraj K. Aggarwal and Anita Yadav, Carcinogenicity of Nickel: A review, *Emerging Trends and Challenges in Biosciences* (2018) 271-81.
4. Yadav, B., Vishwakarma, V., **Kumar, S.**, Aggarwal, N.K., Gupta, R. and Yadav, A., 2019. Antigenotoxic effects of morin against lead induced genomic damage in cultured human peripheral blood lymphocytes. *Journal of Food Biochemistry*, p.e12883. (**IF:1.552**)
5. Miglani, Kanika ; **Kumar, Sunil**; Yadav, Anita; Aggarwal, Neeraj ; Ahmad, Imtyaz; Gupta, Ranjan (2019). A multibiomarker approach to evaluate the effect of polyaromatic hydrocarbon exposure on oxidative and genotoxic damage in tandoor workers. *Toxicology and industrial health*, Vol 35(7) 486-496. (**IF : 1.668**)
6. Kanika Miglani, **Sunil Kumar**, Anita Yadav, Neeraj Aggarwal and Ranjan Gupta (2020). Genotype-activity relationship for *MnSOD* and *GPX-I* in charcoal workers exposed to PAH. *Iranian Biomedical Journal* (**Accepted**) (**IF: 2.20**)

**Conferences/Seminar**

Veena Vishwakarma, Anita Yadav, Bharti Yadav, **Sunil Yadav** “Genotoxic effect of Nickel on cultured human lymphocytes” presented at **National Conference on Strategies to Mitigate the Effect of Climate Change: Steps toward Sustainable Development**, held at Maharaja Agrasen School of Basic and Applied Sciences, **Maharaja Agrasen University, Himachal Pradesh, 8<sup>th</sup> -9<sup>th</sup> December, 2017.**

**Sunil Kumar**, Anita Yadav, Veena Vishwakarma, Bharti Yadav “A Review of toxicity and human health risk of hair dyes” presented at **National Seminar on Emerging Trends & Challenges in Biosciences**, held at Department of Botany & Zoology, **Gandhi Memorial National College, Ambala Cant (Haryana), 10<sup>th</sup> March, 2018.**

Veena Vishwakarma, Anita Yadav, **Sunil Kumar**, Bharti Yadav “Genotoxicity and Carcinogenicity of Nickel: A Review” presented at **National Seminar on Emerging Trends & Challenges in Biosciences**, held at Department of Botany & Zoology, **Gandhi Memorial National College, Ambala Cant (Haryana)**, **10<sup>th</sup> March, 2018**.

**Sunil Kumar**, Veena Vishwakarma, Bharti Yadav, Neeraj K. Aggarwal and Anita Yadav “In vitro genotoxic effects of hair dye on peripheral human lymphocytes” presented at **National Conference on Alternative to Animal Experiments (NCAAE-2018)**, **Indian Society for Alternative to Animal Experiment (ISAAE)** held at **Jamia Hamdard University, New Delhi**, **27<sup>th</sup> November, 2018**.

**Sunil Kumar**, Veena Vishwakarma, Bharti Yadav, Neeraj K. Aggarwal and Anita Yadav “Anti-genotoxic potential of beet root extract against hair dye induced genotoxicity in cultured human cells” presented at **2<sup>nd</sup> International Conference on Innovation in Chemical, Biological & Environmental Sciences (ICICBES-2019)**, held at Department of Chemistry, **Arya P.G. College, Panipat (Haryana)**, **27<sup>th</sup> -28<sup>th</sup> February, 2019**.

Veena Vishwakarma, **Sunil Kumar**, Bharti Yadav, Ranjan Gupta, Neeraj K. Aggarwal and Anita Yadav “Effect of Silymarin on Nickel Induced Genotoxicity in Cultured Peripheral blood Lymphocytes” presented at **National Seminar on Challenges To Biodiversity Conservation & Sustainable Development**, held at Department of Botany & Zoology, **Gandhi Memorial National College, Ambala Cant (Haryana)**, **13<sup>th</sup> December, 2019**.

Tanvi Bhatia, Varij Nayan, Rakshita Singh, **Sunil Kumar**, Naveen Swaroop, Chhama Singh, Anuradha Bhardwaj, S.K. Onteru, R.K. Sharma, Anurag Bhardwaj, D. Singh and A.K. Mohanty “Wheat & Mungbean seed germination test: An alternative urine-based non-invasive early estrus test in buffalo” presented at **11<sup>th</sup> Annual Meeting of Proteomics Society, India 2019 and International Conference on Proteomics for System Integrated Bio-Omics, One Health and Food Safety (ICPBHF-2019)** held at **National Dairy Research Institute, Karnal (Haryana)**, **2<sup>nd</sup> -4<sup>th</sup> December**.

**Sunil Kumar**, Veena Vishwakarma, Bharti Yadav, Neeraj K. Aggarwal and Anita Yadav “In vitro studies on hair dye induced oxidative stress in human peripheral blood lymphocytes” presented at **1<sup>st</sup> Interational Conference of Indian Science Congress Association- Rohtak Chapter on Science & Technology: Rural Development (ICSTRD-2020)** held at **Maharshi Dayanand University, Rohtak**, **4-5 March, 2020**.

### **Educational Background**

Sr. No.	Degree/certificate	Institute/University/Board	Percentage	YEAR
1.	10 <sup>TH</sup>	H.B.S.E	<b>79.60</b>	2007
2.	12 <sup>TH</sup>	C.B.S.E	<b>84.40</b>	2009
3.	B.Sc Biotechnology	UCK, KUK	<b>70.40</b>	2012
4.	M.Sc Biotechnology	KUK	<b>77.65</b>	2014
5.	Training	SGRH		1 July2013- 31Aug2013
6.	Diploma in Bioinformatics	UCK,KUK	<b>60</b>	2010

7.	CC in French	KUK		2011
8.	Pursuing Ph.D	KUK		Enrolled in March,2016

## Experience

Sr. No	Institute/University	Position	Duration	Sallary
1.	SGRH	Trainee	1 July2013-31Aug2013	
2.	KUK	Research Scholar	25 <sup>th</sup> Mar, 2016- 16 <sup>th</sup> Mar, 2019	
3.	ICAR-NRCE	SRF	16 <sup>th</sup> Mar, 2019-20 <sup>th</sup> Aug, 2019	31000/- + HRA
4.	ICAR-CIRB	SRF	20 <sup>th</sup> Aug, 2019- till date	31000/- + HRA

## Exams Qualified

- **Qualified National Eligibility Test (CSIR/UGC-NET) JUNE – LIFE SCIENCES.**
- **ICAR-ARS-NET**
- **Qualified GATE.**

## Area of Expertise

### Research:

**Molecular biology:** DNA, RNA isolations, LAMP, cDNA synthesis, PCR, Nested-PCR, RT-PCR, Gene Expression Studies, Primer synthesis, Gradient PCR

**Cell Culture:** Lymphocytes, whole Blood, Hela cell line, RK-13 cell line, Vero (V<sub>592</sub>) cell line, MDCK cell line, SJMRf cell line.

**Virology:** Virus Neutralization Test (VNT), Hemagglutination Inhibition Assay (HIA), Virus inoculation in mice brain, Brain harvesting, Tissue homogenization etc.

**Proteomics:** Urinary protein isolation, PAGE, SDS-PAGE, Silver staining, Western Blotting, ELISA assays

**Nano-Biotechnology:** Gold Nanoparticle synthesis, AuNP-1<sup>o</sup>Ab Conjugate preparation, Lateral Flow assay (LFA), ELISA

**Toxicology:** Genotoxic and Antigenotoxic studies, Comet assay, SCE assay, MTT assay

**Oxidative stress:** LPA, SOD, Catalase, Glutathione peroxidation and Reduced Glutathione assays

**Other:** Flow cytometry, Small animal handling (lab mice), Sampling from large animals (buffalo, hoarse) like blood, urine, nasal swab etc.

### Computer Proficiency:

- MS-Office (MS-Word, Excel, Power, Point, Outlook), Statistical Analysis using SPSS, ORIGIN etc.
- Work Flow diagrams
- Excellent over Internet research

## Personal Skills

- Hard working and adjustable to any work environment.
- Committed to complete the work in hand.
- Patience
- Self-motivator with high energy & Positive Attitude.
- Good communication and organizing skill

## Personal interest and hobbies

- Interacting with people, in searching something new.

## Personal details

Father's name	: Sh. Vijay Kumar
Date of Birth	: 23 <sup>rd</sup> July, 1991
Gender	: Male
Nationality	: Indian
Marital Status	: Married
Language Known	: English, Hindi
Permanent Address	: Vill.- Balewa, P.O.- Khalilpur, Distt.- Gurgaon, Haryana

## Declaration

I hereby declare that all the details furnished above are true to the best of my knowledge.

Date:

Place:

(SUNIL KUMAR)