<u>Curriculum-Vitae</u>



School of Studies of Interdisciplinary Education and Research Department of Rural Technology and Social Development Guru Ghasidas University Koni-Bilaspur 495009 (CG) INDIA

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DR. SATENDRA KUMAR NIRALA

Assistant Professor, Selection Grade (Level-12)

Qualification/ Academic Profile:

Degrees	Name of University	Year of Passing	Division / Class	Marks secured and Max. Marks	% of Marks	Subjects Taken
B. Sc.	Bundel Khand University INDIA	1997	First Div.	838/ 1350	62.07%	Zoology , Chemistry
M. Sc.	Bundel Khand University INDIA	1999	First Div.	765/ 1200	63.75%	Zoology (Specialization- Parasitology)
M. Phil.	Jiwaji University INDIA	2000- 2002		277/ 400	69.25% First Position	Zoology (Specialization- Environmental Toxicology)
Ph.D. Zoology	Jiwaji University INDIA	July 2005			Zoology (Field of research- Toxicology & Pharmacology)	

Research areas of interest:

Occupational health and safety:

• Assessment of awareness and perception of occupational health hazards among workers in various industrial settings.

Silicosis:

• Cellular mechanisms for detoxification and therapeutic efficacy of natural products in experimentally induced silicosis.

Intercellular communication (in vitro studies):

• Evaluation of certain natural products for anti-cancerous activity by hampering intercellular communication through tunneling nano tubes (TNTs).

Metal toxicology:

- Acute, Sub-chronic and Chronic Metal Poisoning with special reference to Beryllium, Lead, Mercury, Cadmium and Aluminum.
- Cellular and molecular mechanisms of detoxification by chelation therapy with and without antioxidants/adjuvants/trace elements supplementation; Quantitative determination of metal concentration and various biochemical variables in biological samples.

Hepato and nephro protection:

- Biological evaluation of herbal and natural products and active principles for the treatment of liver and kidney diseases against model hepatotoxicants (CCl₄, Acetaminophen, Lipo-polysaccharides, D-Galactosamine, Alcohol & Acrylamide).
- Protective effects of herbal and natural products against Alcohol and high fat diet induced hepato-renal dysfunctions.

Details of Employment

Organization	Designation of the post	Duration From - To	Salaries/ Remuneration	Nature of work done
	held	01.06.0000	A 1100	
Department of	Assistant	01-06-2020	As per UGC	Teaching UG, PG &
Rural Technology,	Professor	То	rules for	PhD classes, research,
Guru Ghasidas	(Selection	Till date	Central	extracurricular
University,	Grade)		Universities	activities and
Bilaspur (CG)	Level 12			administrative
India				responsibilities
Department of	Assistant	01-06-2015	As per UGC	Teaching UG, PG &
Rural Technology,	Professor	То	rules for	PhD classes, research,
Guru Ghasidas	(Senior	31-05-2020	Central	extracurricular
University,	Scale) Level		Universities	activities and
Bilaspur (CG)	11			administrative
India				responsibilities
Department of	Assistant	01-06-2011	As per UGC	Teaching UG, PG &
Rural Technology,	Professor	То	rules for	PhD classes, research,
Guru Ghasidas	(Level 10)	31-05-2015	Central	extracurricular
University,			Universities	activities and
Bilaspur (CG)				administrative
India				responsibilities
SOS in Zoology,	Research	05-05-2008	INR 23,000/-	Doing Experiments and
Jiwaji University,	Associate	То	PM+ HRA 20%	compilation of data as
Gwalior (MP) India		04-05-2011	+ Contingency	per proposal sanctioned
, ,			20,000/-PA	by ICMR
Lanzhou	Senior	1-09-2005	Chinese Yuan	Doing Experiments and
University	Visiting	То	2570=00 PM +	compilation of data as
Lanzhou	Scholar	30-03-2008	To & Fro	per proposal sanctioned
(Gansu Province)				

PR CHINA			Air fare + Free	by China Scholarship
			Accommodatio	5
			n, Tuition fee	
			and Medical	
Boston College for	Visiting	1-02-2005	INR 150/	Taught Industrial
Professional	Lecturer	То	Per Lecture	Biotechnology to
Studies, Gwalior		30-04-2005		undergraduates
(MP) India				3
SOS in Zoology,	Project	29-08-2001	INR 6000/	Doing Experiments and
Jiwaji University,	Fellow	То	PM	compilation of data as
Gwalior (MP) India		28-08-2004		per proposal sanctioned
. ,				by UGC

Awards and Honors:

Fellowships awarded:

International:

- Conferred ICT-XI Junior Fellowship 2007 from International Union of Toxicology, USA (IUTOX).
- Availed Chinese Government Scholarship-2005 (for Advanced Research Training) from 01-09-2005 to 31-03-2008 under Indo-China Cultural Exchange Program through Ministry of Human Resource & Development (Department of Secondary and Higher Education), Government of India.

National:

- Availed Research Associate position from 05-05-2008 to 04-05-2011, awarded from Indian Council of Medical Research, New Delhi, India (No. 45/03/2004/PHA/BMS) for the research project entitled "Effects of some natural products against toxicological consequences of beryllium exposure: in vitro and in vivo approach"
- Awarded Senior Research Fellowship (SRF) from Indian Council of Medical Research, New Delhi, India (Iris Cell No. 2003-05300).
- Availed Project Fellowship from 29-08-2001 to 28-08-2004 from University Grants Commission, New Delhi-India, under Major Research Project (No. F-3/70/2001, SR-ii) entitled "Role of Adjuvants in Chelation Therapy against Beryllium Toxicity".

Scientific Recognitions/ Awards / Honors:

International:

Conferred Outstanding Scientist Award-2015 for contribution and achievement in the field of Environmental Toxicology from Venus International Foundation (VIF) - Chennai (T.N.) India.

- Conferred Bursary-2009 Award for research paper entitled "Intercellular communication through tunneling nanotubes: a possible target for anticancer therapies" from European Association for Studies on Liver (EASL) to attend its 44th annual meeting held in Copenhagen, Denmark during 22nd - 26th April, 2009.
- Conferred Student Recognition Award-2008 from International Society of Zoological Sciences (PR China) & XXth International Congress of Zoology held in Paris, France during 26th - 29th August, 2008.
- Conferred International Congress of Toxicology Junior Fellowship Award-2007 from International Union of Toxicology, USA (IUTOX) to attend the ICT-XI conference held at Montreal, Canada during 15th -19th July, 2007.

National:

- Awarded Young Scientists Research Project (SERC/LS-0424/2010; dated August 9, 2011) under SERC Fast Track Scheme of DST, Ministry of Science and Technology, New Delhi – India.
- Conferred Outstanding Young Person (OYP) Award-2006 for personal achievements in the Science and Technological Development from JCI-Gwalior (M.P.) India.
- Conferred Junior Scientist of the Year-2005 Award from National Environmental Science Academy (NESA), New Delhi – India.
- Conferred Best Research Presentation Medal (BRPM Gold Medal-2003) for oral presentation on "Amelioration of beryllium induced biochemical alterations by combined treatment of propolis and chelator" in 23rd annual session of the Academy of Environmental Biology - Lucknow, 9th -11th October 2003 at Department of Zoology, Shivaji University, Kolhapur (Maharashtra) India.
- Conferred "Third Prize" for oral presentation of research paper entitled "Effectiveness of Tiron over DTPA along with a- tocopherol against beryllium induced toxicity" in Jiwaji University Research Seminar, 25th -26th March 2003 held at Jiwaji University, Gwalior (M.P.) India.
- Honored by "Shaheed Shashindra Memorial Women-Wisdom Society (Reg.)" on 13th June 2004 at Govt. K.R.G. Post Graduate College, Gwalior, for social activities performed in Shaheed Shashindra Memorial Sports Coaching Camp.

Research Projects handled:

Designation	Funding Agency & Sanction No.	Grants Sanctioned	Duration	Title of the Project
Principal Investigator	University Grants Commission, INDIA (42-550/2013 - SR), 22March, 2013	INR 13,29,700/-	01-04-2013 To 31-03-2017	Influence of Phytochemicals on resurgence of acrylamide induced hepato, nephro and encephalopathy
Principal Investigator	University Grants Commission, INDIA [No: F.20- 1/2012 (BSR)/20-11 (3)/2012(BSR)] 30 Oct, 2012	INR 6,00,000/-	05-12-2012 To 04-12-2014	Chemical characterization of few indigenous plants of Chhattisgarh state and their evaluation for therapeutic potential and safety against experimental hepatitis
Principal Investigator	Department of Science and Technology, INDIA (DST-SERB) SR/FT/LS- 166/2010, 13 th Aug, 2012	INR 17,08,000/-	01-09-2012 To 31-08-2015	Tunneling nanotubes: Exploration of possible target for anti-cancer therapies
Research Associate (Awarded)	Indian Council of Medical Research, INDIA (45/03/2004/ PHA/BMS)	INR 10,53,600/ Fellowship, HRA and Contingency expenditures	05-05-2008 to 04-05-2011	"Effects of some natural products against toxicological consequences of beryllium exposure: <i>in vitro</i> and <i>in vivo</i> approach"

Publications:

Publication matrix as updated on 20-12-2022				
Cumulative Impact Factor:	122.863	(As per JCR/SCIE 2022)		
Total citations:	1007	(As per Google Scholar)		
h-index:	17	(As per Google Scholar)		
<i>i</i> 10-index:	25	(As per Google Scholar)		

Patents:

Indian patent filed and published with title of the invention: "A method of value addition by transforming Indian propolis into its silver nanoparticles and their therapeutic uses".

Name of Applicant:	Monika Bhadauria
Name of inventors:	Monika Bhadauria, Shubham Singh, Satendra
	Kumar Nirala, Dhiraj Kumar, Sangeeta Shukla,
	Sadhana Shrivastava, Om Prakash Agrawal, and
	Prashant Singh
Ref./Application No:	202221056592
Appl Number:	TEMP/E-1/64908/2022-MUM
Date of filing:	02/10/2022

Indian patent filed and published with title of the invention: "Value addition of chicken eggs: A method to sustain external and internal quality and to enhance shelf life of eggs by external coating of combination of a solution of shellac and propolis thereof".

Name of Applicants:	1) Satendra Kumar Nirala & Monika Bhadauria			
Name of inventors:	Hem Prabha, Chhaya Nanda, Nidhi Lohitkar,			
	Pratima Dutta, Satendra Kumar Nirala and			
	Monika Bhadauria			
Ref./Application No:	202221052604			
Appl Number:	TEMP/E-1/60403/2022 - MUM			
Date of filing:	15/09/2022			

Filed Indian patent with title of the invention: "Administration of transresveratrol and caffeic acid phenethyl ester as a method to treat acrylamide induced sub chronic toxicity in multiple organs".

Name of Applicants:	1) Satendra Kumar Nirala
Name of inventors:	Piyush Shukla, Monika Bhadauria and Satendra
	Kumar Nirala
Ref./Application No:	202221047531
Appl Number:	TEMP/E-1/54239/2022- MUM
Date of filing:	21/08/2022
Appl Number:	202221047531 TEMP/E-1/54239/2022- MUM

Filed Indian patent with title of the invention: "A novel process of remedy of acrylamide induced acute impairments in liver, kidney, brain and spleen by therapeutic use of resveratrol".

1) Piyush Shukla &
2) Satendra Kumar Nirala
Piyush Shukla, Satendra Kumar Nirala, Monika
Bhadauria, Sadhana Shrivastava and Sangeeta
Shukla
202121056442
TEMP/E-1/64061/2021-MUM
06/12/2021

 Filed Indian patent with title of the invention: "Prospective of caffeic acid phenethyl ester as novel therapeutic process against acrylamide induced acute injury in liver, kidney, brain and spleen".
 Name of Applicants: 1) Satendra Kumar Nirala &

2) Piyush Shukla
 Name of inventors:
 Monika Bhadauria, Sangeeta Shukla, Sadhana Shrivastava, Satendra Kumar Nirala and Piyush Shukla.

Ref./Application No:	202121054941
Appl Number:	TEMP/E-1/61566/2021-MUM
Date of filing:	27/11/2021

Indian patent filed and published with title of the invention: "Propolis extract: a potent antioxidant and hepatoprotective agent and the process for preparation thereof".

Name of Applicants:	1) CCRUM, NEW DELHI &		
	2) JIWAJI UNIVERSITY, GWALIOR		
Name of inventors:	Sangeeta Shukla, Monika Bhadauria, Satendra		
	Kumar Nirala, Sadhana Shrivastava and		
	Shamshad Ahemad.		
Application No:	1827/DEL/2009		
Date of filing:	03/09/2009		
Date of publication:	23/04/2010		
International classification: A61K 35/64			

Research papers accepted/published:

(Impact Factors as per InCites Journal Citation Reports/ Science Citation Index Expended (SCIE)/ Clarivate Analytics)

<u>2022</u>

- Shukla P, Sahu NK, Kumar R, Dhalla DK, Bhadauria M, Agrawal ND, Shrivastava S, Shukla S and Nirala SK* (December, 2022) Quercetin ameliorates acrylamide induced acute spleen injury. (Biotechnic and Histochemistry; Accepted & in press; Impact Factor: 1.742/2021)
- Sahu N, Rakshit S, Nirala SK, Bhadauria M* (2022) Naringenin protects hepato-renal tissues against antituberculosis drugs induced toxic manifestations by modulating interleukin-6, insulin like growth factor-1, biochemical and ultra-structural integrity. (Molecular Biology Reports; https://doi.org/10.1007/s11033-022-07799-y; Impact Factor: 2.742/2021)
- Rakshit S, Sahu N, Nirala SK, Bhadauria M* (2022) Protective activity of purpurin against d-galactosamine and lipopolysaccharide-induced hepatorenal injury by upregulation of heme oxygenase-1 in the RBC degradation cycle. (Journal of Biochemical and Molecular Toxicology; 36: e23168; DOI: https://doi.org/10.1002/jbt.23168; Impact Factor: 3.642/2021)
- 4. Shakya A*, Sharma N, Bhadauria M, Nirala SK, Shrivastava S, Shukla S (2022) Ameliorative impact of herbal formulations-Majoon-Dabeed-ulward and Sharbat-e-Deenar against CCl₄ induced liver toxicity via regulation of antioxidant enzymes and oxidative stress. (Toxicology Research; 1-12 DOI: https://doi.org/10.1093/toxres/tfac052; Impact Factor: 2.680/2021)
- 5. Gupte SS, Rathour A, Gupta D, Soni R, Shrivastava S, Bhadauria M, Nirala SK, Singh S, Sharma A, Yadav D, Rakshit S and Shukla S (2022) Tephrosia purpurea ameliorates oxidative and histological

alterations induced by Aflatoxin B1 in rats. (International Journal of Pharmaceutical Investigation; 12: 340-345, **Indexed in Web of Science**)

<u>2021</u>

6. Rakshit S, Shukla P, Verma A, Nirala SK and Bhadauria M* (2021) Protective role of rutin against combined exposure to lipopolysaccharide and D-galactosamine induced dysfunctions in liver, kidney and brain: Hematological, biochemical and histological evidences. (Journal of Food Biochemistry; 45 (2): e13605, DOI: 10.1111/jfbc.13605; Impact Factor: 3.654/2021)

<u>2020</u>

- 7. Rakshit S, Verma A, Nirala SK and Bhadauria M* (2020) Gallic acid protects from acute multiorgan injury induced by lipopolysaccharide and D-galactosamine. (Current Pharmaceutical Biotechnology; 21: 1489-1504, Impact Factor: 2.829/2021)
- 8. Shukla P, Sahu NK, Kumar R, Bhadauria M, Nirala SK* (2020) Hydroethanolic extract of *Gloriosa superba* Linn. protecting acute splenic injury by modulating endogenous antioxidants pool in rats. (Flora and Fauna; 26: (2) 295-303, Indexed in Web of Science)
- Sahu N, Mishra G, Chandra HK, Nirala SK, Bhadauria M* (2020): Naringenin mitigate antituberculosis drugs induced hepatic and renal injury in rats. (Journal of Traditional and Complementary Medicine; 10: 26-35, Impact Factor: 4.221/2021)

<u>2019</u>

- Verma A, Rakshit S, Nirala SK, Bhadauria M* (2019): Beryllium driven hematological and serological alterations that cured by chelation via naringenin in albino rats. (Asian Journal of Pharmaceutical and Clinical Research; 12: Issue 09; 116-119, Indexed in Scopus)
- 11. Rakshit S, Verma A, **Nirala SK**, Bhadauria M* (2019): **Protective Effect** of rotenone against lipopolysaccharide and D-galactosamine induced hematotoxicity. (Asian Journal of Pharmaceutical and Clinical Research; 12: Issue 08; 01-04, Indexed in Scopus)
- Shrivastava S*, Nirala SK, Reshi MS, Shukla S, Sharma A, Uthra C (2019): Protective Efficacy of Vitamin F against Acrylamide Induced Toxicity: Studies on Oxidative Stress Biomarkers. (The Open Biomarkers Journal; 9: 1-9; Indexed in Scopus)
- Agrawal ND*, Nirala SK, Bhadauria M, Shrivastava S, Shukla S (2019): Protective potential of Moringa oleifera Lam. along with curcumin and piperine against beryllium- induced alterations in hepatorenal biochemistry and ultra-morphology in rats. (Indian Journal of Biochemistry and Biophysics; 56: 70-80, Impact Factor: 1.476/2021)

<u>2018</u>

14. Sahu N, Mishra G, Chandra HK, Nirala SK, Bhadauria M* (2018): Propolis modulates cellular biochemistry, antioxidants, cytokine profile, histological and ultra morphological status against antituberculosis **drugs induced hepatic injury.** (Asian Pacific Journal of Tropical Medicine; 11: 609-620, **Impact Factor: 3.041/2021**)

- Mishra G, Chandra HK, Sahu N, Nirala SK, Bhadauria M* (2018): Ameliorative effect of *Pergularia daemia* (Forssk.) Chiov. leaves extract against anti-tuberculosis drugs induced liver injury in rats. (Asian Pacific Journal of Tropical Medicine; 11: 518-525, Impact Factor: 3.041/2021)
- Mishra G, Chandra HK, Sahu N, Nirala SK, Bhadauria M* (2018): Preliminary phytochemical screening and in vivo safety evaluation of ethanolic extract of Hemidesmus indicus (Linn.) Journal of (Applied Pharmaceutical Science; 8: 072-079, Indexed in Scopus)
- 17. Mishra G, Chandra HK, Sahu N, Nirala SK, Bhadauria M* (2018): In vivo safety evaluation and choleretic activity of ethanolic extract of *Pergularia daemia* (Forsk.). (Asian Journal of Pharmacy and Pharmacology; 4: 462-466)
- Chandra HK, Mishra G, Sahu N, Nirala SK, Bhadauria M* (2018): Toxicological implications of combined consumption of high fat diet and alcohol in rats. (Flora and Fauna 24: 345-349, Indexed in Web of Science).
- Sahu N, Mishra G, Chandra HK, Nirala SK, Bhadauria M* (2018): Ameliorative effect of naringenin against antituberculosis drugs induced alterations in haematological parameters of rats. (Asian Journal of Pharmaceutical and Clinical Research; 11: 253-255, Indexed in Scopus)
- 20. Mishra G, Chandra HK, Sahu N, Nirala SK, Bhadauria M* (2018): Qualitative and quantitative phytochemical screening and *in vitro* antioxidant evaluation of *Pergularia daemia*. (Flora and Fauna; 24: 350-354, Indexed in Web of Science).
- 21. Chandra HK, Mishra G, Sahu N, Nirala SK, Bhadauria M* (2018): Effect of rutin against high-fat diet and alcohol-induced alterations in hematological variables of rats. (Asian Journal of Pharmaceutical and Clinical Research; 11: 186-189, Indexed in Scopus)
- 22. Sahu N, Mishra G, Chandra HK, Nirala SK, Bhadauria M* (2018): Hematological profile of rats administered with propolis following antituberculosis drugs induced toxicity. (Flora and Fauna; 24: 371-374, Indexed in Web of Science)

<u>2017</u>

- 23. Suman KS, Nirala SK, Bhadauria M* (2017): Naringenin mitigates beryllium induced behavioural alterations in rats. (Flora and Flora; 23: 245-251, Indexed in Web of Science)
- 24. Malik JA, Nirala SK, Bhadauria M* (2017): **Phytochemical and** antibacterial evaluation of *Tephrosia purpuria* and its active

constituent gallic acid. (Flora and Flora; 23: 252-256, Indexed in Web of Science)

<u>2015</u>

25. Agrawal ND, Nirala SK, Shukla S, Mathur R* (2015): Co-administration of adjuvants along with *Moringa oleifera* attenuates beryllium induced oxidative stress and histopathological alterations. (*Pharmaceutical Biology*; 53: 1465-1473, Impact Factor: 3.503/2020)

<u>2013</u>

26. Wen YF, Zhao JQ, Bhadauria M, Nirala SK* (2013): Baicalin prevents cadmium induced hepatic cytotoxicity, oxidative stress and histomorphometric alterations. (Experimental and Toxicologic Pathology; 65: 189–196, Impact Factor: 2.023/2020)

<u>2012</u>

27. Wen YF, Zhao JQ, Nirala SK, Bhadauria M* (2012): Aluminum induced toxicity and its response to combined treatment of HEDTA and propolis in rats. (Polish Journal of Environmental Studies; 21: 1437-1444, Impact Factor: 1.699/2020)

<u>2010</u>

- Wen YF, Zhao JQ, Bhadauria M, Nirala SK* (2010): Pyridoxine mitigates cadmium induced hepatic cytotoxicity and oxidative stress. (Environmental toxicology and Pharmacology; 30: 169-174, Impact Factor: 4.860/2020)
- 29. Joshi D*, Mittal DK, Nirala SK, Shrivastava S, Bhadauria M, Shukla S (2010): Role of micronutrients against dimethylmercury intoxication in male rats. (Environmental Toxicology and Pharmacology; 29: 97-103, Impact Factor: 4.860/2020).

<u>2009</u>

- 30. Nirala SK, Bhadauria M*, Upadhyay AK, Mathur R, Mathur A (2009): Reversal of effects of intra peritoneally administered beryllium nitrate by tiron and CaNa3DTPA alone or in combination with atocopherol. (Indian Journal of Experimental Biology; 47: 955-963, Impact Factor: 0.944/2021)
- 31. Upadhyay AK, Mathur R, Bhadauria M, Nirala SK* (2009): Therapeutic influence of zinc and ascorbic acid against lead induced biochemical alterations. (*Therapie*; 64, 383-388, Impact Factor: 3.367/2021)
- 32. Fan GJ, Tang JJ, Bhadauria M*, Nirala SK, Dai F, Zhou B, Li Y, Liu ZL (2009). Resveratrol ameliorates carbon tetrachloride induced acute liver injury in mice. (Environmental Toxicology and Pharmacology; 28, 350-356, Impact Factor: 5.785/2021).
- 33. Zhao JQ, Wen YF, Bhadauria M*, **Nirala SK**, Sharma A, Shrivastava S, Shukla S, Agrawal OP, Mathur R (2009). **Protective effects of propolis**

on inorganic mercury induced oxidative stress in mice. (Indian Journal of Experimental Biology; 47: 264-269, Impact Factor: 0.944/2021)

- Bhadauria M*, Nirala SK, Shrivastava S, Sharma A, Johri S, Chandan BK, Singh B, Saxena AK, Shukla S (2009): Emodin reverses CCl₄ induced hepatic CYP enzymatic and ultra structural changes: the *in vivo* evidence. (*Hepatology Research; 39: 290-300*, Impact Factor: 4.942/2021)
- 35. Bhadauria M* and Nirala SK (2009): Reversal of acetaminophen induced subchronic hepatorenal injury by propolis extract in rats. (Environmental Toxicology and Pharmacology; 27: 17-25, Impact Factor: 5.785/2021)

<u>2008</u>

- 36. Nirala SK*, Bhadauria M (2008): Synergistic effects of ferritin and propolis in modulation of beryllium induced toxicogenic alterations. (Food and Chemical Toxicology; 46: 3069-3079, Impact Factor: 5.572/2021)
- Bhadauria M*, Nirala SK, Shukla S (2008): Multiple treatment of propolis extract ameliorates carbon tetrachloride induced liver injury in rats. (Food and Chemical Toxicology; 46: 2703-2712, Impact Factor: 5.572/2021)
- 38. Bhadauria M, Shukla S, Mathur R, Agrawal OP, Shrivastava S, Johri S, Joshi D, Singh V and Mittal DK, Nirala SK (2008): Hepatic endogenous defense potential of propolis after mercury intoxication. (Integrative Zoology; 4: 311-321, Impact Factor: 2.083/2021)
- 39. Nirala SK*, Li PQ, Bhadauria M, Guo GQ (2008): Combined effects of gallic acid and propolis on beryllium-induced hepatorenal toxicity. (Integrative Zoology; 4: 195-208, Impact Factor: 2.083/2021)
- 40. Nirala SK*, Bhadauria M, Shukla S, Agrawal OP, Mathur A, Li PQ, Mathur R* (2008): Pharmacological intervention of tiferron and propolis to alleviate beryllium induced hepatorenal toxicity. (Fundamental and Clinical Pharmacology; 22: 403-415, Impact Factor: 2.747/2021)
- Nirala SK, Bhadauria M* (2008): Propolis reverses acetaminophen induced hepatorenal biochemical and histopathological alterations. (Archives of Pharmacal Research; 31: 451-461, Impact Factor: 6.010/2021)
- 42. Nirala SK*, Bhadauria M, Mathur R, Mathur A (2008): Influence of atocopherol, propolis and piperine on therapeutic potential of tiferron against beryllium induced toxic manifestations (Journal of Applied Toxicology; 28: 44-54, Impact Factor: 3.628/2021).

<u>2007</u>

43. Zhao JQ, Du GZ, Xiong YC, Yi-Fu Wen, Monika Bhadauria, Nirala SK* (2007): Attenuation of beryllium induced hepatorenal dysfunction and oxidative stress in rodents by combined effect of Gallic acid and piperine. (Archives of Pharmacal Research; 30: 1575-1583, Impact Factor: 6.010/2021)

- 44. Bhadauria M*, Nirala SK, Shukla S (2007). Duration dependent hepatoprotective effect of propolis extract against carbon tetrachloride induced acute damage in rats. (Advances in Therapy; 24: 1134-1143, Impact Factor: 3.845/2020)
- 45. Bhadauria M*, Nirala SK, Shukla S (2007): Propolis protects CYP2E1 enzymatic activities and oxidative stress induced by carbon tetrachloride. (Molecular and Cellular Biochemistry; 302: 215-24, Impact Factor: 3.842/2021).
- 46. Nirala SK*, Bhadauria M, Mathur R, Mathur A (2007): Amelioration of beryllium induced alterations in hepatorenal biochemistry and ultramorphology by co-administration of tiferron and adjuvants. (Journal of Biomedical Science; 14: 331-345, Impact Factor: 12.771/2021).
- 47. Bhadauria M*, **Nirala SK**, Shukla S (2007): **Hepatoprotective efficacy of propolis extract: A biochemical and histopathological approach** (*Iranian Journal of Pharmacology and Therapeutics*, 6: 145-154).

<u>2004</u>

- 48. Nirala SK, Mathur R*, Mathur A (2004): Amelioration of beryllium induced biochemical alterations by combined treatment of propolis and chelator. Journal of Ecophysiology & Occupational Health, 4, PP 45-54.
- 49. Mathur R*, Nirala SK, Mathur A (2004): Comparative effectiveness of CaNa₃DTPA and Tiron along with α-Tocopherol against beryllium induced biochemical alterations in rats. (Indian Journal of Experimental Biology, 42, 570-574. Impact Factor: 0.944/2021).

<u>2003</u>

- 50. Mathur R*, Nirala SK, Mathur A (2003): Toxicological effects of beryllium and its prevention by combined therapy of HEDTA and α-Tocopherol; Proceedings of National Symposium on *Biochemical Sciences: Health and Environmental Aspects.* Oct. 2-4, PP 504-506.
- 51. Mathur R*, Nirala SK, Mathur A (2003): Suppression of hepatic lipid peroxidation by HEDTA along with piperine after beryllium intoxication in rats; *Journal of Current Sciences*, 3 (1): PP 67-70.

<u>2002</u>

52. Nirala SK, Mathur R* (2002): Role of antioxidant in chelation against beryllium induced toxicity in female albino rats; *Flora and Fauna*, 8 (1): 23-26, Indexed in Web of Science).

Key Note/Invited Lectures/Talks in Conferences, Seminars, Workshops

International:

- Propolis: a worldwide folklore medicine and scope for rural entrepreneurship and agribusiness" delivered Key Note lecture in The Ancient Indian Knowledge System for Holistic Development (CVRUCON- 2022); 28-29, January 2022; Dr. C. V. Raman University, Kargi Road, Kota- Bilaspur, (CG) India.
- "Zinc and magnesium augment protective potential of caffeic acid phenethyl ester (CAPE) against acrylamide induced chronic injury in multiple organs" delivered lecture in International Conference on Breakthroughs in Toxicology and 39th Annual Meeting of Society of Toxicology; 27-29, Dec 2019; Jiwaji University, Gwalior (MP) India.
- "Therapeutic potential of ferritin in combination of epigallocatechin gallate and piperine against beryllium induced chronic toxicity in liver and kidney" delivered lecture in International Conference on Emerging Researches in Bioscience (ICERB-2018); 28th - 30th October, 2018; Guru Ghasidas University, Bilaspur (CG) India.
- "Toxic consequences of acrylamide on liver and kidney: Therapeutic prospective of curcumin" delivered invited lecture in International Symposia on Water, Energy and Environment for Sustainable Development Goals, 25th - 26th September, 2018; Dr. C.V. Raman University, Bilaspur (CG) India.
- "Indian Culture and historical monuments" delivered lecture in the seminar entitled "Cut Across the Himalaya: A Seminar on the Peoples and Culture of India"; 9th & 10th November, 2005; Lanzhou University, Lanzhou (Gansu Province) PR China.

National:

- "Histotechniques as a diagnostic tool in disease: Why and How?" delivered invited talk and wet lab demonstration on histological procedures for students in National Workshop on Molecular Diagnostics: Advances and Applications, 03rd – 09th November, 2022, Department of Biotechnology, Guru Ghasidas University, Bilaspur (CG).
- "Histochemical Techniques: Why and How" delivered invited talk in National Workshop on Animal Cell Culture: Techniques and Applications, 16th – 22nd February, 2022, Department of Biotechnology, Guru Ghasidas University, Bilaspur (CG).
- "Animal based industries: Lucrative entrepreneurship for livelihood in rural areas" delivered invited lecture in Women's Entrepreneurship Development Program on 07th December, 2021, Jiwaji University, Gwalior (MP).
- "Histochemical Techniques: Why and How" delivered invited talk in National Workshop on Animal Cell Culture: Techniques and Applications, 18th – 24th January, 2018, Department of Biotechnology, Guru Ghasidas University, Bilaspur (CG).
- "Interruption in cell to cell communication: An *in vitro* evidence for novel anti-cancer mechanism" delivered invited lecture in 3rd National Conference of

Zoological Society of Chhattisgarh on Prospects of Innovations in Life Sciences and Socio-Economic Challenges, 02^{nd} - 03^{rd} December, 2017, Department of Zoology, CMD College, **Bilaspur** (CG).

- "Propolis: a world-wide folklore medicine" delivered invited lecture in National Lecture Series; 12-03-2016; Department of Rural Technology, Bastar University, Jagadalpur (CG)
- "Animal based industries for rural development" delivered invited lecture in National Lecture Series; 12-03-2016; Department of Rural Technology, Bastar University, Jagadalpur (CG).

Scientific presentations in seminars, symposia & conferences: (Title of the paper presented, name of conference, year & venue):

International:

- Zinc and magnesium augment protective potential of caffeic acid phenethyl ester (CAPE) against acrylamide induced chronic injury in multiple organs: International Conference on Breakthroughs in Toxicology and 39th Annual Meeting of Society of Toxicology; 27-29, Dec 2019; Jiwaji University, Gwalior (MP) India.
- Protective role of resveratrol against acrylamide mediated hepatic and renal pathophysiology in rats: 17th International Conference on Sustainable Research in Engineering, Technology, Pharmacy and Management (IC-SRETPM-2019), 25th - 26th May, 2019; Babulal Tarabai Institute of Research and Technology, Sagar, (MP) India.
- Therapeutic potential of ferritin in combination of epigallocatechin gallate and piperine against beryllium induced chronic toxicity in liver and kidney: *International Conference on Emerging Researches in Bioscience* (ICERB-2018), 28th - 30th October, 2018; Guru Ghasidas University, **Bilaspur (CG) India**.
- Toxic Consequences of Acrylamide on Liver and Kidney: Therapeutic Prospective of Curcumin: International Symposia on Water, Energy and Environment for Sustainable Development Goals, 25th - 26th September, 2018; Dr. C.V. Raman University, Bilaspur (CG) India.
- Acrylamide mediated inequity in homeostasis: Amelioration by a traditional molecule, the Curcumin: International Conference on Bharat Rejuvenation (From Glorious Past to the Modern Era) - 2017, 15th - 17th October, 2017; Guru Ghasidas University, **Bilaspur (CG) India**.
- Sanative sequel of CAPE (Caffeic Acid Phenethyl Ester) against acrylamide arbitrated toxic illustrations: 2nd International Conference "Frontiers in Pharmaceutical Sciences", 23rd - 24th September, 2017; Columbia Institute of Pharmacy, Raipur (CG) India.
- Disruption in intercellular communication may be a novel anti-cancer mechanism: An *in vitro* evidence: 40th All India Cell Biology Conference and International Symposium on Functional Genomics and Epigenomics, 17th – 19th November, 2016; SOS in Zoology, Jiwaji University, Gwalior (MP) India
- Resveratrol: A promising therapeutic agent against acrylamide induced hepatic and renal dysfunction: 3rd International Congress of Society for Ethnopharmacology on Ethnopharmacology and Evaluation of Medicinal Plants- Global Perspective, 19th - 21st February, 2016; Pt Ravi Shankar Shukla University, **Raipur (CG) India**.

- Curcumin: A potent therapeutic agent to cope with acrylamide induced hepatic and renal dysfunction: 6th International Conference on Technology Innovation and Management for Sustainable Development, 11th - 13th February, 2016; ITM University, Gwalior (MP) India.
- Intercellular communication through tunneling nanotubes: a possible target for anticancer therapies: 44th meeting of European Association for the Studies on the Liver (EASL) 22nd - 26th April, 2009; Copenhagen, Denmark.
- Combined effects of gallic acid and propolis on beryllium-induced hepatorenal toxicity: XXth International Congress of Zoology, 26th - 29th August, 2008; Paris, France.
- Cut across the wall: cell to cell communication through intercellular bridges: International Conference of Toxicology, Toxicogenomics and Occupational Health, 9th-11th October, 2006; SOS in Zoology, Jiwaji University, Gwalior (MP) India.
- Toxicological consequences upon beryllium exposure and its therapeutics by supplementation of antioxidants along with chelator: An *in vivo* study: *International Symposium on Recent Advances in Pharmacology*, 7th- 8th January, 2004; All India Institute of Medical Sciences, **New Delhi, India**.
- Attenuation of beryllium induced toxicity through Tiferron along with Propolis as nutritional supplementation in rats: 7th Conference of the International Society for Trace Element Research in Humans (ISTERH), 7th-12th November, 2004; Institute of Nutrition, Mahidol University, **Bangkok**, **Thailand**.

National:

- Epigallocatechin gallate and piperine exhibit better therapeutic effects in presence of S-allyl-L-cystein against beryllium induced hepato-renal injury: National Seminar on Recent Trends in Drug Discovery, Development and Delivery Systems, 12th February, 2018, SLT Institute of Pharmaceutical Sciences, Guru Ghasidas University, **Bilaspur** (CG).
- Interruption in cell to cell communication: An *in vitro* evidence for novel anti-cancer mechanism: 3rd National Conference of Zoological Society of Chhattisgarh on Prospects of Innovations in Life Sciences and Socio-Economic Challenges, 02-03rd December, 2017, Department of Zoology, CMD (PG) College, **Bilaspur** (CG).
- Therapeutic potential of naringenin against acrylamide induced hepatic and renal injury in rats: National Conference on Recent Advances in Biotechnology and Biofuels, 12-13th September, 2016, Department of Microbiology and Bioinformatics, Bilaspur University, **Bilaspur** (CG).
- Combined effect of S-allyl-L-cystein along with piperine and epigallocatechin gallate against beryllium induced toxicity: National Conference on Herbal Drug research: Current status with reference to institute-industry interaction, opportunities and challenges in Chhattisgarh, 16th February, 2016, Siddhi Vinayak Institute of Science and Technology, **Bilaspur** (CG).
- Piperine and Epigallocatechin gallate mediated therapeutic potential of S-allyl-Lcystein against beryllium induced hepato- renal toxicity: National Conference on Monitoring and Management of Drinking Water Quality and Annual Conference of National Environmental Science Academy, 21st -23rd December, 2015, Uttarakhand State Council for Science and Technology, **Dehradun** (UK)

- Combination of propolis extract and chelating agents ameliorates beryllium induced chronic toxicity in rat liver and kidney: National Conference on Scientific Developments in 21st Century, 12-13th March, 2015, Jiwaji University, Gwalior (MP)
- Propolis mediated therapeutic potential of ferritin, tiferron and HEDTA in resurgence from beryllium induced chronic hepatic abnormality: 33rd Annual conference of Society of Toxicology & National Symposia on Toxicogenomic Technologies in predictive toxicology, Alternatives to use of animals for modern toxicity testing, 23rd – 25th Oct, 2013, DUVASU, Mathura (UP).
- Propolis extract ameliorates lead-induced peroxidative damages in rat liver, kidney and brain: 97th Session of Indian Science Congress Association, 3rd -7th Jan, 2010; Kerala University, **Thiruvananthapuram** (Kerala).
- Antioxidants dependent therapeutic potential of Tiferron against beryllium induced toxic manifestations: 93rd Session of Indian Science Congress Association, 3rd -7th Jan, 2006; N.G. Ranga Agricultural University, Hyderabad (Andhra Pradesh).
- Adjuvants mediated therapeutic efficacy of chelating agent against toxicological consequences of beryllium exposure: 92nd Session of Indian Science Congress Association, 3rd -7th Jan, 2005; Nirma University, Ahmedabad (Gujrat).
- Therapeutic efficacy of Tiferron in combination with Propolis or Piperine against beryllium induced toxicity in rats: Society of Toxicology, 28th – 30th October, 2004; SCTIMT, Thiruvananthapuram (Kerala).
- Therapeutic approach against beryllium induced toxicity through α- Tocopherol and Propolis supplementation along with HEDTA: An *in vivo* study: 19th M.P. Young Scientist Congress, 12th -13th April, 2004; Dr Hari Singh Gaur University, Saugar (MP).
- Piperine mediated efficacy of chelator against beryllium induced toxicity: National Seminar and Training Workshop on Impact of Changing Climate on Biodiversity Conservation and Ecofunctional Status, 15th-17th January, 2004; School of Studies in Botany, Jiwaji University, Gwalior (MP).
- Influence of piperine on chelation against beryllium induced biochemical alterations: An *in vivo* study: 91st Session of Indian Science Congress Association, 3rd -7th January, 2004; Punjab University, Chandigarh.
- Amelioration of beryllium induced biochemical alterations by combined treatment of propolis and chelator: National Symposium on Recent Trends in Biology and Biotechnology and 23rd annual session of the Academy of Environmental Biology, 9th -11th October, 2003; Deptt of Zoology, Shivaji University, Kolhapur (Maharashtra).
- Effectiveness of Tiron over DTPA along with α- tocopherol against beryllium induced toxicity: Jiwaji University Research Seminar, 25th-26th March, 2003; Jiwaji University, **Gwalior** (MP).
- Comparative study of effectiveness of chelating agents along with antioxidant against beryllium induced toxicity: An *in vivo* study: "18th M. P. Young Scientist Congress", 3rd-4th March, 2003; Madhya Pradesh Bhoj (Open) University, **Bhopal** (MP).
- Toxicological effects of Beryllium and its reversal by HEDTA along with adjuvant in rats: National Seminar on "*Emerging Chemical Technologies in Industries*", 14th-15th February, 2003; VRG (PG) College, **Gwalior** (MP).
- Piperine enhances chelating efficacy of HEDTA against beryllium induced toxicity in albino rats: National Symposium on "Environmental Biotechnology & Biodiversity

Conservation", 31st January and 1st February 2003; Sardar Patel University, **Anand** (Gujrat).

- Chelation of beryllium with Tiron and vitamin E in female rats: 35th Annual Conference of Indian Pharmacological Society, 26th -29th November, 2002; Defence Research Development Establishment **Gwalior** (M.P.).
- Effectiveness of Tiron and vitamin E against beryllium induced toxicity in female rats: National Conference on Environmental Biology, 17th -18th October, 2002; Saurashtra University, **Rajkot** (Gujrat).
- Toxicological effects of Beryllium and its treatment: National Seminar on Biodiversity Conservation: Challenges for 21st Century, 26th -28th November, 2001; Jiwaji University, **Gwalior** (MP).
- Attended 89th Session of Indian Science Congress Association, 3rd -7th January, 2002; Lucknow University, Lucknow (UP).
- Attended National Conference on Recent Trends in Life Management, 22^{nd-23rd} October, 2000; Bipin Bihari (PG) College, **Jhansi** (UP).

Book chapters contributed

- Nirala SK* (2017): Naringenin abrogates aluminum induced alterations in liver and kidney. In: Role of Animal Sciences in National Development Vol-5: Recent Trends in Animal Sciences, pp 73-87; Eds: Kaliwal BB, Sanakal, Sadashiv SO; Today and Tomorrow's Printers and Publishers, Darya Ganj, New Delhi India [ISBN-81-7019-562-5 (INDIA); 1-55528-417-5 (USA)].
- 2. Shukla P and Nirala SK* (2017): Predominant toxicity of acrylamide and therapeutic role of naringenin against acrylamide in rats. In: Role of Animal Sciences in National Development Vol-2: Biotechnology for Human Welfare, pp 335-341; Eds: Kaliwal BB, Kulkarni GK, Kaliwal RB, Sadashiv SO; Today and Tomorrow's Printers and Publishers, Darya Ganj, New Delhi India [ISBN-81-7019-559-0 (INDIA); 1-55528-414-9 (USA)].
- Nirala SK*, Bhadauria M, Shukla S, Mathur A and Mathur R (2012): Propolis mediated therapeutic potential of HEDTA against beryllium induced toxicological consequences. In: Beneficial Effects of Propolis on Human Health and Chronic Diseases- Vol 1, pp 209-232; Eds: Tahira Farooqui & Akhlaq A Farooqui; Nova Science Publishers, USA (ISBN-978-1-62081-456-7).
- Bhadauria M*, Nirala SK, Jaswal A, Raghuvanshi S, Bhatt R and Shukla S (2012): Propolis: therapeutic perspectives against silica induced toxic manifestations. In: Beneficial Effects of Propolis on Human Health and Chronic Diseases- Vol 2, pp 155-172; Eds: Tahira Farooqui & Akhlaq A Farooqui; Nova Science Publishers, USA (ISBN-978-1-62081-483-3).

Research Supervision: Supervision of Ph.D. Scholars

- Ms. Pratima Dutta: "Appraisal of therapeutic efficacy of naringenin loaded silver nanoparticles against combined exposure to beryllium and aluminum induced toxic manifestations in rats" (Pursuing).
- Mr. Piyush Shukla: "Therapeutic influence of resveratrol and caffeic acid phenethyl ester along with micronutrients on resurgence of acrylamide induced hepatic and renal pathophysiology" (Degree awarded on 17-12-2021).
- Dr. Anjani Verma: "Therapeutic potential of caffeic acid and naringenin along with iron supplementation against beryllium induced toxic manifestations in rats" (Degree awarded on 10-03-2021).
- Dr. Samrat Rakshit: "Preclinical evaluation of *Tephrosia purpurea* and its major bioactive components against experimental hepatitis in rats" (Degree awarded on 08-10-2020).
- Dr. Naresh Kumar Sahu: "Therapeutic potential of Curculigo orchioides and Gloriosa superba against experimentally induced hepatitis and nephritis in rats" (Degree awarded on 15-09-2020).
- Dr. Raj Kumar: "Healing prospective of Justicia gendarussa and Curcuma caesia against combined exposure to alcohol and endotoxin induced hepatic and renal injury in rats" (Degree awarded on 15-09-2020).

Supervision of M. Sc. Dissertations:

- 1. Mr. Rishabh Kumar (M. Sc. Zoology, 2022): "Assessment on awareness among poultry workers regarding occupational health hazards in poultry farms located in countryside of Bilaspur district in Chhattisgarh state".
- 2. Ms. Amita Bhoi (M. Sc. Zoology, 2022): "Therapeutic potential of naringenin against acrylamide induced kidney damage in rats".
- 3. **Ms. Megha Dahire (M. Sc. Zoology, 2022):** "Therapeutic role of naringenin against acrylamide induced biochemical alterations in microsomal compartment of liver in rats".
- 4. **Ms. Monisha Bhardwaj (M. Sc. Zoology, 2022):** "Hepatoprotective potential of naringenin against acrylamide induced liver injury in rats".
- 5. **Ms. Priyanshi Kurre (M. Sc. Zoology, 2022):** "Curative role of naringenin against acrylamide induced toxic manifestations in brain of rats".
- 6. **Mr. Ravikant Chandra (M. Sc. Zoology, 2022):** "Therapeutic potential of naringenin against acrylamide induced oxidative stress in spleen in rats".
- 7. **Ms. Hem Prabha (M. Sc. Rural Technology, 2022):** "Value addition of chicken eggs by external coating of combination of shellac and propolis to enhance external and internal quality and shelf life of eggs".

- 8. **Ms. Chhaya Nanda (M. Sc. Rural Technology, 2022):** "Evaluation of influence of external coating of combination of shellac and propolis on quality of chicken eggs for extending storage period".
- 9. Ms. Nidhi Lohitkar (M. Sc. Rural Technology, 2022): "A study on combined effect of shellac and propolis as an external coating material on quality of chicken eggs for extending storage period".
- 10. Ms. Reena Bhardwaj (M. Sc. Rural Technology, 2022): "A study on rearing practices and management of Japanese quail in poultry farm".
- 11. Mr. Shimaluddin Sheikh (M. Sc. Rural Technology, 2021): "A study on awareness of occupational health hazards among workers in a few poultry farms located in rural areas of Bilaspur district in Chhattisgarh"
- 12. Mr. Balram Sahu (M. Sc. Rural Technology, 2021): "A study on biofloc system for inland culture: An emerging technique for fish production in rural areas"
- 13. Mr. Akash Kumar Bharti (M. Sc. Zoology, 2021): "Ethnomedicinal, phytochemical and pharmacological information on *Indigofera tinctoria* Linn"
- 14. Ms. Anjali Koram (M. Sc. Zoology, 2021): "Ethnomedicinal use and pharmacological properties of *Oxalis griffithii* Edgew.: A systematic review"
- 15. Mr. Darwin Dahire (M. Sc. Zoology, 2021): "Literature survey based predictions on occupational health hazards in education institutions"
- 16. Ms. Hemlata (M. Sc. Zoology, 2021): "Literature survey based on pharmacological compendium on *Tridex procumbens* Linn."
- 17. Ms. Nikita Rai (M. Sc. Zoology, 2021): "Pharmacological activities and therapeutic description of *Cassia alata* Linn."
- 18. Mr. Purandar Choudhary (M. Sc. Zoology, 2021): "Morphological, medicinal and pharmacological information on *Fumaria parviflora* Lam.: A literature survey"
- 19. Ms. Yagya Trivedi (M. Sc. Zoology, 2021): "Literature survey based study on impact of COVID-19 on the human"
- 20. Mr. Nilay Das (M.Sc. Zoology, 2020): "Hepatoprotective prospective of propolis against D-galactosamine and lipopolysaccharide induced acute hepatitis"
- 21. **Ms. Ganga Samrat (M. Sc. Zoology, 2020):** "Protective action of *Hemidesmus indicus* (Linn.) against renal damage induced by combined exposure to D-galactosamine and lipopolysaccharide"
- 22. **Ms. Indu Singh (M. Sc. Zoology, 2020):** "Protective role of propolis against acute splenic injury induced by combined exposure to D-galactosamine and lipopolysaccharide"
- 23. Ms. Mamta Kathle (M. Sc. Zoology, 2020): "Hemidesmus indicus (Linn.) protects neuronal injury induced by combined exposure to lipopolysaccharide and D-galactosamine"
- 24. **Ms. Jyoti Sahu (M.Sc. Zoology, 2020):** "Propolis protects testes from toxic effects of combined exposure to D-galactosamine and lipopolysaccharide"
- 25. Mrs Anisha Dhruve (M. Sc. Rural Technology, 2018): "Evaluation of adulteration in milk collected from few standard and local dairies in Bilaspur".

- 26. Mr. Sunil Nag (M. Sc. Zoology, 2018): "Therapeutic effects of *Tephrosia purpurea* Linn. and its active components against LPS/Gal induced nephrotoxicity".
- 27. Mr. Anil Jogivansh (M. Sc. Zoology, 2018): "Therapeutic effects of *Tephrosia purpurea* Linn. and its major components against combined consumption of LPS and D-GalN induced toxicity in spleen".
- 28. **Ms. Akanksha Paul (M. Sc. Zoology, 2018):** "Assessment of free radical scavenging activity of *Casssia tora* Linn. flower extract and its safety evaluation in female albino rats".
- 29. Ms. Smriti Saraf (M. Sc. Zoology, 2018): "Phytochemical screening and antioxidant activity of lesf and stem extract of *Aristolochia indica*".
- 30. **Ms. Padmini Sahu (M. Sc. Zoology, 2018):** "Assessment of phytochemical constituents and antioxidant potential of extract of flower and pod of *Cassia tora* Linn".
- 31. Mr. Yogesh Sahu (M. Sc. Rural Technology, 2017): "Protective effect of *Justicia gendarussa* (Burm) against alcohol and LPS induced inflammation in rat spleen".
- 32. **Ms. Priya Tiwari (M. Sc. Rural Technology, 2017):** "Ameliorative effect of *Curcuma caesia* against oxidative stress in rat spleen".
- 33. Mr. Raj Kumar (M. Sc. Rural Technology, 2014): "Evaluation of phytochemical properties of *Justicia gendarussa* Burm".
- 34. Mr. Naresh Sahu (M. Sc. Rural Technology, 2014): "Evaluation of phytochemical properties of *Curculigo orchioides* Gaertn".
- 35. **Ms. Priyanka Vishwakarma (M. Sc. Rural Technology, 2013):** "Nephroprotective potential of few plants: A Literature Survey".
- 36. Ms. Tina Jaiswal (M. Sc. Rural Technology, 2013): "A review on few hepatoprotective plants".
- 37. Ms. Khushboo Singh Dhundhel (M. Sc. Rural Technology, 2013): "Antifertility potential of few plants: A Review of Literature".

Concurrent administrative responsibilities performed as:

- Assistant Dean, Students Welfare (ADSW), Guru Ghasidas University, from 01-06-2017 to 06-11-2022.
- Vice-Chancellor's nominee in Ad hoc appointments of Assistant Professors in various departments of Guru Ghasidas Vishwavidyalaya, Bilaspur.
- Assistant Centre Superintendent, GGU End Semester Examination session 2018-19; 2017-18 (Odd and Even semesters).
- School-Coordinator for NAAC (Collection and compilation of data from School of Natural Resources for NAAC evaluation of GGU; year 2018-21
- School-Coordinator at IQAC to prepare AQAR of GGU (Collection and compilation of data at School level); year 2015, 2016, 2017, 2018, 2019, 2020, 2021
- Observer for Vishwavidyalaya Entrance Test (VET) of Guru Ghasidas University for year 2014 and 2015.
- ➢ Observer for SSC Exam 2014.
- Polling Officer in GGU Students Council Elections- year 2014, 2015, 2016, 2019.

- Member, Board of Studies (BoS) of the Department of Rural Technology and Social Development, GGU.
- > Member, Departmental Research Committee (DRC).
- > Member, Research Advisory Committees (RACs).
- Member, Various Screening/Scrutiny as well as document verification Committees for regular appointments of faculties in different departments of GGU.
- > Member, Project Purchase Committee (PPC) for various research projects.
- > Member, Departmental Purchase Committee (DPC).
- > Member, Alumni Association Committee of Guru Ghasidas University.
- Member, Admission Committee of Department of Rural Technology and Social Development, GGU for year 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022.
- Member, Admission Committee of Department of Biotechnology, GGU for 2014 and 2015.
- Member, Documents Verification Committee for Ad-hoc appointments of Assistant Professors in the Department of Rural Technology; year 2012, 2013, 2014, 2015, 2016, 2017
- Coordinator, Collection and compilation of departmental information for NAAC ranking of GGU; year 2014
- Coordinator, Collection and compilation of departmental information for NIRF ranking of GGU; year 2015, 2016, 2017
- > Member, Disciplinary Committee of School of Studies in Natural Resources.
- > Member, Departmental Anti-ragging Committee.
- Member, Team of control room to conduct UGC-NET exam Dec 2013, June 2014 and Dec 2014.
- Member, Seating arrangement Committee for celebration of Foundation Day of the University.
- Member, Committee for celebration of Guru Ghasidas Jayanti, 2011 to till date.
- Member, Pay Fixation Committee for teachers, 2019, 2022
- > Question paper setter and external examiner for
 - Shaheed Nand Kumar Patel Vishwavidyalaya, Raigarh (CG)
 - Bastar University, Jagdalpur (CG)
 - Behrampur University, (Odisha)
 - o Atal Bihari Vajpayee University, Bilaspur (CG)
 - Bundelkhand University, Jhansi (UP)
 - o Guru Ghasidas University, Bilaspur (CG)
 - o Jiwaji University, Gwalior (MP)

Additional Information:

Professional updates through online "Continuing Professional Education"

Name of Course	Modules covered	Name of Educator	Date of completio n
Web of Science Academy Course	An introduction to peer review	Web of Science Academy Website: https://webofsc ienceacademy.cl arivate.com/lea rn/course/	05-02-2022
Technical Writing Skills (07 modules)	 How to design effective figures for review articles An editor's guide to writing a review article Make the most of your research: publish your data & methods Systematic reviews 101 How to write case reports How to write for an interdisciplinary audience Beginners' guide to writing a manuscript in LaTeX 	Elsevier Researcher Academy Website: https://researche racademy.elsevier .com/	10-09-2021
Book Writing (03 modules)	 Why write a book? How to get your book published? Discoverability: top tips to get your book out there 	Elsevier Researcher Academy Website: https://researche racademy.elsevier .com/	13-10-2020
Fundamentals of Manuscript Preparation (04 Modules)	 Structuring your article correctly Guide to reference managers: How to effectively manage your references How to prepare your manuscript How to write an abstract and improve your article 	Elsevier Researcher Academy Website: https://researche racademy.elsevier .com/	11-06-2020

Augmentation of Scientific Skill through Advanced Trainings & Workshops:

Organization	Period From - To	Details of Training/ workshop		
INTERNATIONAL:				
Department of Veterinary Microbiology, College of Veterinary Science & Animal Husbandry , Mhow (MP) India	11-10-2021 To 31-10-2021	21 Days Online International Training cum Orientation Program on Immunology – A Tool for Disease Management		
44 th Annual Meeting of the European Association for the Study of the Liver (EASL), Copenhagen, Denmark	22-04-2009 To 23-04-2009	Post Graduate Course for Hepatologists		
Lanzhou Institute of Animal Sciences and Veterinary Pharmaceutics, Chinese Academy of Agricultural Sciences, Lanzhou - P.R. China.	26-06-2006 To 12-07- 2006	2ndInternationalTrainingWorkshop on Traditional ChineseVeterinaryMedicineAndTechniques (ITWTCVMT)		
Indian Institute of Integrative Medicine (Formerly R.R.L., CSIR), Jammu - India.	15-09-2003 To 19-09-2003	3rdIndo-USworkshoponApplications of Flow- cytometryin Drug Mechanistics		
NATIONAL:				
Guru Ghasidas University, Bilaspur (CG)	18-12-2021	One Day Workshop on Multiple Entry/Exit for Professional Courses as a Step towards National education policy Implementation		
Department of Zoology, Guru Ghasidas University, Bilaspur (CG)	27-11-2021	Satellite Conference of Society for Alternatives to Animal - India		
Internal Quality Assurance Cell, Guru Ghasidas University, Bilaspur (CG)	26-11-2021	NAAC Sponsored Interactive OneDayWorkshop onFrameworkofNAACAccreditation:AnAwarenessProgram		
InPods India Private Limited, Pune (MH)	19-07-2021 To 21-07-2021	Training Seminar for NAAC Accreditation		
UGC-Human Resource Development Centre, Guru Ghasidas University, Bilaspur (CG)	11-06-2018 To 30-06-2018	Refresher Course on Synthetic and Natural Products: Chemical and Medicinal Aspects (Interdisciplinary)		
SOS in Zoology, Jiwaji University, Gwalior (MP)	16-11-2016	Science Communication and Career Workshop		

UGC-Human Resource Development Centre, Guru Ghasidas University, Bilaspur (CG)	13-06-2016 To 02-07-2016	Refresher Course on Research Methodology (Interdisciplinary)
Jointly organized by Chhattisgarh Council of Science and Technology and Guru Ghasidas University, Bilaspur (CG)	26-02-2016 To 27-02-2016	WorkshoponIntellectualPropertyRights,IPCommercializationandPrevention of Plagiarism
Department of Library and Information Science, Guru Ghasidas University, Bilaspur (CG)	16-12-2014	"Author Workshop"
Department of Zoology Guru Ghasidas University, Bilaspur (CG)	25-01-2014	National Workshop on Molecular Updates in Biological Sciences
UGC-Academic Staff College, Guru Ghasidas University, Bilaspur (CG)	10-01-2014 To 12-01-2014	Short term course on E-Learning and E-Content Development
Department of Zoology Guru Ghasidas University, Bilaspur (CG)	24-08-2013 To 25-08-2013	NationalWorkshoponAlternativestoUseofAnimalSacrificeinLifeScienceEducationforTeachers
UGC-Academic Staff College, Guru Ghasidas University, Bilaspur (CG)	22-11-2012 To 26-12-2012	4 th Orientation Program for Teachers
SOS in Zoology, Jiwaji University, Gwalior (MP)	05-03-2010	Intellectual property rights awareness workshop
SOS in Zoology, Jiwaji University, Gwalior (MP)	04-11-2009 To 05-11-2009	"Intellectual property and Innovation management in knowledge era"
SCTIMT, Thiruvananthapuram (Kerala)	29-10-2004	Continuing education course on good laboratory practices
Madhya Pradesh Council of Science and Technology, Bhopal (MP)	29-12-2003 To 30-12-2003	Training on Preparation of sample and detection of elements by Atomic Absorption Spectrophotometer
Indian Institute of Integrative Medicine (Formerly R.R.L. , CSIR), Jammu (J&K)	20-09-2003 To 25-09-2003	<i>In vitro</i> training on Primary monolayer culture of rat hepatocytes
SOS in Botany Jiwaji University, Gwalior (MP)	21-02-2003	Workshop on Teaching and Research in Ethno-biology in New Millennium

Foreign visits for academic or professional purposes:

- Visited Denmark (Copenhagen) for attending 44th meeting of European Association for the Studies on the Liver (EASL) during 22nd – 27th April, 2009.
- Visited France (Paris) for attending XXth International Congress of Zoology during 25th - 30th August, 2008.
- Spent 2 years and 7 months in P.R. China (Lanzhou) for holding Chinese Government Scholarship since 01-09-2005 to 31-03-2008.
- Visited Kingdom of Thailand (Bangkok) for attending International Conference of International Society for Trace Elements Research in Humans (ISTERH-2004) during 5th -13th November, 2004.

Foreign travel grants awarded from various funding agencies:

- Availed foreign travel grant to attend international conference at Copenhagen (Denmark) from Department of Science & Technology (DST), Government of India, New Delhi, through letter No. SR/ITS/03155/2009-2010, dated 27-03-2009.
- Selected for foreign travel grant sanctioned from Council of Scientific and Industrial Research (CSIR), New Delhi, INDIA through letter No. TG/3912/09-HRD, dated 08-04-2009.
- Availed foreign travel grant sanctioned from M.P. Council of Science and Technology, Bhopal, INDIA through letter No. 2242/CST/PD/TG/2008, dated 7-11-2008.
- Availed the Student Recognition Award to attend the XXth International Congress of Zoology held in Paris, France during 26th - 29th August, 2008.
- Selected for ICT-XI Junior Fellowship from International Union of Toxicology, USA (IUTOX) to attend the ICT-XI conference held at Montreal, Canada during 15-19th July, 2007.
- Availed foreign travel grant sanctioned from Council of Scientific and Industrial Research (CSIR), New Delhi, INDIA through letter No. TG/1510/04-HRD, dated 12-10-2004.
- Selected for foreign travel grant to attend international conference at Bangkok (Thailand) from Department of Science & Technology (DST), Government of India, New Delhi, through letter No. SR/PF/997-B/2004-2005, dated 9-10-2004.
- Selected for foreign travel grant to attend international conference at Monastir (Tunisia) from Department of Science & Technology (DST), Government of India, New Delhi, through letter No. SR/PF/59/ 2005-2006, dated 15-03-2005.

Seminars/Workshops/Trainings organized:

- Co-Convenor of Hybrid Mode National Seminar on "Strengthening Environmental Health: Role of Society, Science and Technology" Organized by Department of Rural Technology and Social Development, Guru Ghasidas University from 26-09-2022 to 27-09-2022.
- Co-Convenor of "Interactive One Day Workshop on Assessment and Accreditation of Higher Education Institutions" Organized by Internal Quality Assurance Cell, Guru Ghasidas University on 09-12-2019.
- Organized training program on "Instrumentation and Techniques for Biomedical Research" under joint venture of Skill Development Cell, Guru Ghasidas University and Department of Rural Technology and Social Development from 25-08-2019 to 27-08-2019.
- Organized training program on "Training on Instrumentation and Techniques for Biomedical Research" at the Department of Rural Technology and Social Development, Guru Ghasidas University from 02-09-2016 to 03-09-2016.

Scientific contribution as reviewer: Active reviewer of the manuscripts offered from:

- Sournal of Biochemical and Molecular Toxicology (John Wiley), Kansas City, USA.
- * Environmental Toxicology (John Wiley), Jackson MS, USA.
- Toxicology and Environmental Health Sciences (Springer), Incheon, Korea.
- Indian Journal of Experimental Biology, CSIR, India
- Iranian Journal of Pharmacology and Therapeutics, Iran.
- Evidence based Complementary and Alternative Medicine (eCAM), Oxford University Press, UK.
- **Sournal of Veterinary Sciences, Seol, Korea**.
- * African Journal of Microbiology Research, South Africa.
- Pharmaceutical Biology (Taylor & Francis), Springfield, MA, USA
- Histology and Pathology, Spain
- Sournal of Renal and Hepatic Disorders, USA

Affiliation to Academic/ Scientific Societies:

- > International Society of Zoological Sciences (ISZS) Beijing, PR China.
- > Indian Society of Cell Biology (ISCB) Mumbai, India.
- > Indian Science Congress Association (ISCA) Kolkata, India.
- > Academy of Environmental Biology (AEB) Lucknow, India.
- > National Environmental Sciences Academy (NESA) New Delhi, India.
- Society of Toxicology (STOX) Lucknow, India.

Declaration:

I hereby declare that the above mentioned information are true and correct to the best of my knowledge and nothing has been concealed or distorted. **Date:**

Date:

Place: Bilaspur

Satendra Kumar Nirala