



**School:** School of Life Sciences  
**Department:** Department of Zoology

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## **Prof. Monika Bhadauria**

### **Qualifications:**

Ph. D. (2004) from Jiwaji University, Gwalior (MP) India, entitled “**Hepatoprotective evaluation of efficacy of natural product on experimental liver injury in rats**” (Notification:- F/Ph.D./2004/458; dated 07/10/2004)

M. Sc. (1999) with first division from Dr. Bhim Rao Ambedkar University, Agra (U.P.) India.

B. Sc. (1996) with first division from Bundelkhand University, Jhansi (U.P.) India.

### **Area of Interest/ Specializations:**

#### **Hepatoprotection:**

- Biological evaluation of active substances from herbal and natural resources for the treatment of liver diseases against model hepatotoxicants (Carbon tetrachloride, Acetaminophen, D-Galactosamine, Acrylamide, Thioacetamide, Alcohol, High fat diet, Lipo-polysaccharide, Anti-tuberculosis drugs and Cyclophosphamide).
- Protective effects of herbal and natural products against Alcohol and high fat diet induced liver abnormalities.

#### **Nephro and neuroprotection:**

- Therapeutic effects of natural or herbal products/ active principles/ natural and synthetic chelators against various toxicants.

#### **Metal toxicity:**

- Acute, Subchronic 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/ adjuvant/ trace elements supplementation.
- Quantitative estimation of metals concentration and various biochemical parameters in tissues and organs.

#### **Silicosis:**

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

#### **Working experience in:**

- **GLP** and **SPF** grade animal research facilities
- Animal care, breeding, maintenance and experimentations

## Experience:

**Professor:** Department of Zoology, Guru Ghsidas University, Bilaspur, (CG) India (August 2018 – Continue)

**Associate Professor:** Department of Zoology, Guru Ghsidas University, Bilaspur, (CG) India (June 2013 – August 2018)

**Assistant Professor:** Department of Zoology, Guru Ghsidas University, Bilaspur, (CG) India (June 2011 – June 2013)

**Worked as Senior Research Associate (Pool Officer): at Jiwaji University, Gwalior, MP, India.**

**Project:** “Resveratrol, curcumin and emodin against combined consumption of high fat diet and alcohol induced hepatorenal abnormalities: the *in vivo* study” funded by **Council of Scientific and Industrial Research**, New Delhi, India.

**Worked as Post-Doctoral Fellow (PDF): at NLAOC, Lanzhou University, Lanzhou, PR China.**

**Project:** “Molecular and biochemical mechanism of action of Resveratrol and their different analogs against high fat diet induced hepatic abnormalities” collaboratively funded by **PDF foundation of China** and **Lanzhou University**.

**Worked as Research Associate: at School of studies in Zoology, Jiwaji University, Gwalior, India.**

**Project:** “Therapeutic effectiveness of Propolis extract and its active principle against carbon tetrachloride induced liver damage in rats” (**independent project**) funded by **Indian Council of Medical Research**, New Delhi-India.

## Awards and Honors:

### **International:**

1. **Student Recognition Award 2008** from International Congress of Zoology (Beijing) to attend the XXth International Congress of Zoology to be held at Paris (France).

### **National:**

2. **Outstanding Scientist 2015** for the contribution and achievement in the field of Environmental Toxicology from VIRFA, Chennai, Tamil Nadu, India
3. **Best Science Research Award 2009** sponsored by M. P. Council of Science and Technology, Bhopal, India
4. **Junior Scientist of the year 2005** by National Environmental Science Academy, New Delhi, India
5. **Outstanding Young Person Award 2005** in Academics and Scientific field from JAYCEES-Gwalior, India
6. **Second Best Poster Award 2004** in “National Seminar and Training Workshop on Impact on Changing Climate on Biodiversity Conservation and Ecofunctional Status” Jiwaji University, Gwalior, India.
7. **I.S.C.A. Young Scientist Award 2004** from Indian Science Congress Association at Punjab University, Chandigarh, India.
8. **Young Scientist Award 2002** in “National Conference on Environmental Biology-2002” Saurashtra University, Rajkot, India.
9. **First Prize in Oral Presentation** in Life Sciences **2001** in Jiwaji University Research Seminar, Gwalior, India.
10. **M. P. Young Scientist Award 2001** in Zoology from M.P. Council of Science and Technology, Bhopal, India

## Research Projects:

<b>Research project completed</b>				
<b>Designation</b>	<b>Funding agency</b>	<b>Grants Sanctioned</b>	<b>Duration</b>	<b>Title of project</b>
Co Investigator	Department of Science and Technology <b>SERB/F/10596/2018-2019;</b> <b>Dated 10-01-2019</b>	INR 6851200/-	2019-2021	Neurobiology of obesity regulation and therapeutic intervention
Principal Investigator	University Grants Commission <b>No: F.45-520/2013 (SR);</b> <b>Dated 22-03-2013</b>	INR 13,10,800/-	2013-2016	Anti-tuberculosis drugs induced hepatic abnormalities and its prevention by propolis
Principal Investigator	Department of Biotechnology <b>No BT/Bio-CARE/03/854/2010-11;</b> <b>Dated 10-09-2012</b>	INR 32,00,000/-	2012-2015	Chemical characterization of Indian propolis and evaluation of its therapeutic potential against hepatic cholestasis and cirrhosis induced by combined consumption of high fat diet and alcohol
Principal Investigator	University Grants Commission <b>(20-1/2012 (BSR)/20-12(3) /2012(BSR)</b> <b>Dated</b>	INR 6,00,000/-	2012-2014	Safety evaluation and therapeutic potential of few medicinal plants: an in vivo approach
Senior Research Associate (Pool Officer)	Council of Scientific and Industrial Research, New Delhi, India. <b>13(8271-A)/ pool / 08 (23/10/2008)</b> <b>Dated 23/10/2008</b>	Salary and contingency as per CSIR rules	01 Nov 2008 – 30 May 2011	Resveratrol, curcumin and emodin against combined consumption of high fat diet and alcohol induced hepatorenal abnormalities: the <i>in vivo</i> study
Research Associate	Indian Council of Medical Research New Delhi-India. <b>45/15/2002/PHA/BMS</b> <b>Dated 07/10/2005</b>	Salary and contingency as per ICMR rules	07 Oct 2004 – 31 July 2006	Therapeutic effectiveness of Propolis extract and its active principle against carbon tetrachloride induced liver damage in rats

**International Collaboration/Consultancy: NIL**

## List of Publications (All):

- **Journals: 60**

**Citations 1984**

**h-index 22**

**i10-index 36**

1. Sahu N, Rakshit S, Nirala SK, **Bhadoria 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 Report*: in press. **Impact Factor: 2.742/2021**
2. Rakshit S, Sahu N, Nirala SK, **Bhadoria 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**
3. Shakya A, Sharma N, **Bhadoria M**, Nirala SK, Shrivastava S, Shukla S (2022) Ameliorative impact of herbal formulations-*Majoon-Dabeed-ul-ward* and *Sharbat-e-Deenar* against CCl<sub>4</sub> 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**
4. Gupte SS, Rathour A, Gupta D, Soni R, Shrivastava S, **Bhaduria 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* Accepted on 22-05-2022. **Indexed in Web of Science**
5. Rakshit S, Shukla P, Verma A, Nirala SK and **Bhadoria M\*** (2021) Protective role of rutin against combined exposure to lipopolysaccharide and D-galactosamine-induced dysfunction in liver, kidney, and brain: Hematological, biochemical and histopathological evidence. *Journal of Food Biochemistry*; 45 (2): e13605, DOI: 10.1111/jfbc.13605. **Impact Factor: 3.654/2021**
6. Rakshit S, Nirala SK and Bhadoria M\* (2020) Gallic acid protects from acute multiorgan injury induced by lipopolysaccharide and D-galactosamine. *Current Pharmaceutical Biotechnology* 21:1489-1504. **Impact Factor: 2.837/2020**
7. Sahu N, Mishra G, Chandra HK, Nirala SK and **Bhadoria M\*** (2020) Naringenin mitigate antituberculosis drugs induced hepatic and renal injury in rats. *Journal of Traditional and Complementary Medicine* 10:26-35. **Impact Factor: 0.385/2020**
8. Suman KS and **Bhadoria M\*** (2019) Beryllium induced toxic manifestations in rat brain: Dose and duration dependent study. *Indian Journal of Experimental Biology* 57:610-618. **Impact Factor: 0.818/2020**
9. Agrawal ND\*, Nirala SK, **Bhadoria 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: 1.918/2020**
10. Verma A, Rakshit S, Nirala SK and **Bhadoria M\*** (2019) Beryllium driven hematological and serological alterations that cure by chelation via naringenin in albino rats. *Asian Journal of Pharmaceutical and Clinical Research* 12: 09; 116-119.

11. Rakshit S, Verma A, Nirala SK and **Bhadoria M\*** (2019) Protective Effect of rotenone against lipopolysaccharide and D-galactosamine induced hematotoxicity. *Asian Journal of Pharmaceutical and Clinical Research* 12: 08; 01-04.
12. Sahu N, Mishra G, Chandra HK, Nirala SK and **Bhadoria 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: 1.226/2018**
13. Mishra G, Chandra HK, Sahu N, Nirala SK and **Bhadoria 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: 1.226/2020**
14. Mishra G, Chandra HK, Sahu N, Nirala SK and **Bhadoria 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. **Impact Factor: 0.761/2020**
15. Mishra G, Chandra HK, Sahu N, Nirala SK and **Bhadoria M\*** (2018) In vivo safety evaluation and cholerectic activity of ethanolic extract of *Pergularia daemia* (Forsk.). *Asian Journal of Pharmacy and Pharmacology* 4: 462-466.
16. Sahu N, Mishra G, Chandra HK, Nirala SK and **Bhadoria 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. **Impact Factor: 0.655/2020**
17. Mishra G, Chandra HK, Sahu N, Nirala SK and **Bhadoria M\*** (2018) Qualitative and quantitative phytochemical screening and in vitro antioxidant evaluation of *Pergularia daemia*. *Flora and Fauna* 24: 350-354.
18. Chandra HK, Mishra G, Sahu N, Nirala SK and **Bhadoria M\*** (2018) Toxicological implications of combined consumption of high fat diet and alcohol in rats. *Flora and Fauna* 24: 345-349. DOI:10.33451/florafaua.v24i2pp345-349
19. Chandra HK, Mishra G, Sahu N, Nirala SK and **Bhadoria 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. DOI: <https://doi.org/10.22159/ajpcr.2018.v11i11.27588>
20. Sahu N, Mishra G, Chandra HK, Nirala SK and **Bhadoria M\*** (2018) Hematological profile of rats administered with propolis following antituberculosis drugs induced toxicity. *Flora and Fauna* 24: 371-374.
21. Suman KS, Nirala SK and **Bhadoria M\*** (2017) Naringenin mitigates beryllium induced behavioural alterations in rats. *Flora and Flora* 23: 245-251.
22. Malik JA, Nirala SK and **Bhadoria M\*** (2017) Phytochemical and antibacterial evaluation of *Tephrosia purpuria* and its active constituent gallic acid. *Flora and Flora* 23: 252-256.
23. Jaswal A, Sinha N, **Bhadoria M**, Shrivastava S and Shukla S\* (2013) Therapeutic potential of thymoquinone against anti-tuberculosis drugs induced liver damage. *Environmental Toxicology and Pharmacology* 36: 779-786. **Impact Factor: 4.860/2020**

24. Wen YF, Zhao JQ, **Bhadoria M** and Nirala SK\* (2013): Baicalin prevents cadmium induced hepatic cytotoxicity, oxidative stress and histomorphometric alterations. *Experimental and Toxicologic Pathology* 65: 189-196. **Impact Factor: 1.975/2020**
25. **Bhadoria M\*** (2012) Combined treatment of HEDTA and propolis prevents aluminum induced toxicity in rats. *Food and Chemical Toxicology* 50: 2487-2495. **Impact Factor: 6.023/2020**
26. **Bhadoria M\*** (2012) Propolis prevents hepatorenal injury induced by chronic exposure to carbon tetrachloride. *Evidence Based Complementary and Alternative Medicine* Article ID 235358, pages 12 (doi:10.1155/2012/235358). **Impact Factor: 2.629/2020**
27. Wen YF, Zhao JQ, Nirala SK and **Bhadoria 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: 1.383/2020**
28. Shrivastava S\*, Joshi D, **Bhadoria M**, Shukla S and Mathur R (2011) Cotherapy of tiron and selenium against vanadium induced toxic effects in lactating rats. *Iranian Journal of Reproductive Medicine* 9 (3). **Impact Factor: 0.600/2015**
29. **Bhadoria M\*** (2010) Dose-dependent hepatoprotective effect of emodin against acetaminophen-induced acute damage in rats. *Experimental and Toxicologic Pathology* 62: 627-635. **Impact Factor: 2.023/2020**
30. Wen YF, Zhao JQ, **Bhadoria 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**
31. Joshi D\*, Mittal DK, Nirala SK, Shrivastava S, **Bhadoria 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**
32. **Bhadoria M**, Nirala SK, Sharma A, Shukla S\*, Chandan BK, Singh B and Saxena AK (2009) Emodin reverses CCl<sub>4</sub> induced hepatic CYP enzymatic and ultra structural changes: the *in vivo* evidence. *Hepatology Research* 39: 290-300. **Impact Factor: 4.288/2020**
33. Nirala SK, **Bhadoria M\***, Upadhyay AK, Mathur R, Mathur A (2009) Reversal of effects of intra peritoneally administered beryllium nitrate by tiron and CaNa<sub>3</sub>DTPA alone or in combination with  $\alpha$ -tocopherol. *Indian Journal of Experimental Biology* 47: 955-963. **Impact Factor: 0.818/2020**
34. Upadhyay AK, Mathur R, **Bhadoria M**, Nirala SK\* (2009) Therapeutic influence of zinc and ascorbic acid against lead induced biochemical alterations. *Therapie* 64: 383-388. **Impact Factor: 1.816/2020**
35. **Bhadoria M\*** and Nirala SK (2009) Reversal of acetaminophen induced sub chronic hepatorenal injury by propolis extract in rats. *Environmental Toxicology and Pharmacology* 27: 17-25. **Impact Factor: 4.860/2020**
36. Fan GJ, Tang JJ, **Bhadoria 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: : 4.860/2020**

37. Zhao JQ, Wen YF, **Bhadoria M\***, Nirala SK, Sharma A, Shrivastava S, Shukla S, Agrawal OP and Mathur R (2009) Protective effects of propolis against mercury induced oxidative stress in mice. *Indian Journal of Experimental Biology* 47: 264-269. **Impact Factor: 0.818/2020**
38. **Bhadoria M\***, Nirala S K and 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: 6.023/2018**
39. Nirala SK\* and **Bhadoria M** (2008) Synergistic effects of ferritin and propolis in modulation of beryllium induced toxicogenic alterations. *Food and Chemical Toxicology* 46: 3069-3079. **Impact Factor: 6.023/2018**
40. Chandan BK\*, Saxena AK, Shukla S, Sharma N, Gupta DK, Singh K, Suri J, **Bhadoria M** and Qazi GN (2008) Hepatoprotective activity of *Woodfordia fruticosa* Kurz. Flowers against carbon tetrachloride induced hepatotoxicity. *Journal of Ethnopharmacology* 119: 218-224. **Impact Factor: 4.360/2020**
41. **Bhadoria M\***, Shukla S, Mathur R, Agrawal OP, Shrivastava S, Johri S, Joshi D, Singh V, Mittal DK and Nirala SK (2008) Hepatic endogenous defense potential of propolis after mercury intoxication. *Integrative Zoology* 4: 311-321. **Impact Factor: 2.654/2020**
42. Nirala SK\*, **Bhadoria 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: 2.748/2020**
43. Nirala SK\*, Li PQ, **Bhadoria M**, Guo GQ (2008) Combined effects of gallic acid and propolis on beryllium induced hepatorenal toxicity. *Integrative Zoology* 4: 195-208. **Impact Factor: 2.654/2020**
44. Nirala SK and **Bhadoria M\*** (2008) Propolis reverses acetaminophen induced hepatorenal biochemical and histopathological alterations. *Archives of Pharmacal Research* 31: 451-461. **Impact Factor: 4.946/2020**
45. Nirala SK\*, **Bhadoria M**, Mathur R and Mathur A (2008). Influence of  $\alpha$ -tocopherol, propolis and piperine on therapeutic potential of tiferron against beryllium induced toxic manifestations. *Journal of Applied Toxicology* 28: 44-54. **Impact Factor: 3.446/2020**
46. **Bhadoria M\***, Nirala SK and Shukla S (2007). Duration dependent hepatoprotective effect of propolis extract against carbon tetrachloride induced acute damage in rats. *Advances in Therapy* 24(5): 1134-1143. **Impact Factor: 4.288/2020**
47. Zhao JQ, Du GZ, Xiong YC, Wen YF, **Bhadoria M**, Nirala SK\* (2007). The attenuation of beryllium induced hepatocellular dysfunction and oxidative stress in rodents by means of the combined effect of Gallic acid and piperine. *Archives of Pharmacal Research* 30(12): 1575-1583. **Impact Factor: 4.946/2020**
48. **Bhadoria M\***, Nirala SK and Shukla S (2007). Propolis protects CYP2E1 enzymatic activities and oxidative stress induced by carbon tetrachloride. *Molecular and Cellular Biochemistry* 302(1-2): 215-24. **Impact Factor: 3.396/2020**
49. Nirala SK\*, **Bhadoria M**, Mathur R and Mathur A (2007). Amelioration of beryllium induced alterations in hepatorenal biochemistry and ultra morphology by co-administration of

- tiferron and adjuvants. *Journal of Biomedical Science* 14: 331-345. **Impact Factor: 5.203/2018**
50. Chandan BK\*, Saxena AK, Shukla S, Sharma N, Gupta DK, Suri KA, Suri J, **Bhadoria M**, Singh B (2007). Hepatoprotective potential of *Aloe barbadensis* Mill. against carbon tetrachloride induced hepatotoxicity. *Journal of Ethnopharmacology* 111: 560-566. **Impact Factor: 4.360/2020**
  51. **Bhadoria M\***, Nirala S K and Shukla S (2007) Hepatoprotective efficacy of propolis extract: A biochemical and histopathological approach. *Iranian Journal of Pharmacology and Therapeutics* 6: 145-154.
  52. Shukla S\*, Jadon A, **Bhadoria M** and Sharma A (2007) Prevention of acute carbon tetrachloride induced hepatic and renal toxicity in rats by PHF: A Propriety Herbal Formulation. *International Journal of Pharmacological and Biological Sciences* 1(2): 71-80.
  53. Jadon A, **Bhadoria M** and Shukla S\* (2007) Protective effect of *Terminalia belerica* Roxb. and gallic acid against carbon tetrachloride induced damage in albino rats. *Journal of Ethnopharmacology* 109(2): 214-218. **Impact Factor: 4.360/2020**
  54. Shukla S\*, Jadon A and **Bhadoria M** (2006) Ameliorative effects of Propriety Herbal Formulation against carbon tetrachloride induced biochemical and histopathological changes in rats. *Indian Drugs* 43(3): 235-244.
  55. Shukla S\*, **Bhadoria M** and Jadon A (2005) Evaluation of hepatoprotective potential of propolis extract in carbon tetrachloride induced liver injury in rats. *Indian Journal of Biochemistry and Biophysics* 42: 321-325. **Impact Factor: 1.918/2020**
  56. Shukla S\*, Jadon A and **Bhadoria M** (2005) Comparative effect of *Terminalia belerica* and its active principle against carbon tetrachloride induced liver injury. *Indian Journal of Pharmaceutical Sciences* 67(6): 16-21. **Impact Factor: 0.721/2020**
  57. Shukla S\*, **Bhadoria M**, Sharma A and Jadon A (2005) Hepatoprotective effect of a propriety herbal formulation (PHF) on experimental liver damage in rats. *Toxicology International* 12(2): 75-81.
  58. Jadon A, **Bhadoria M** and Shukla S\* (2005) 3,4,5-Trihydroxybenzoic acid and *Terminalia belerica*: a hepatoprotective study. *Indian Drugs* 42(3): 136-143.
  59. Shukla S\*, **Bhadoria M** and Jadon A (2004) Effect of propolis extract on acute carbon tetrachloride induced hepatotoxicity. *Indian Journal of Experimental Biology* 42: 993-997. **Impact Factor: 0.818/2020**
  60. **Bhadoria M**, Jadon A, Sharma A and Shukla S\* (2002) Effect of Propriety herbal formulation (PHF) against chronic carbon tetrachloride induced hepatotoxicity. *Indian Journal of Experimental Biology* 40(11): 1254-1259. **Impact Factor: 0.818/2020**

• **Conference Proceedings: NIL**



## Recent Books/Book Chapters/Monographs etc.: 06

S No.	Title	Author's Name	Publisher	Year
1	<b>Therapeutic Effect of propriety herbal formulation on CCl<sub>4</sub> induced liver damage in rats.</b>  In Reproductive Biology, pp 312-322, Eds. R Mathur, A Mathur & S Shukla (ISBN 81-7629-516-7).	Sharma A, <b>Bhadoria M</b> and Jadon A	DD Publishers, New Delhi, India	2004
2	<b>Propolis: Therapeutic perspectives against silica induced toxic manifestations.</b>  In: Beneficial Effects of Propolis on Human Health and Chronic Diseases- Vol 2, pp 155-172; Eds: Tahira Farooqui & Akhlaq A Farooqui. (ISBN-978-1-62081-483-3).	<b>Bhadoria M*</b> , Nirala SK, Jaswal A, Raghuvanshi S, Bhatt R and Shukla S	NOVA Science Publisher, USA	2012
3	<b>Propolis mediated therapeutic potential of HEDTA against beryllium induced toxicological consequences.</b>  In: Beneficial Effects of Propolis on Human Health and Chronic Diseases- Vol 1, pp 209-232; Eds: Tahira Farooqui & Akhlaq A Farooqui. (ISBN-978-1-62081-456-7).	Nirala SK*, <b>Bhadoria M</b> , Shukla S, Mathur A and Mathur R	NOVA Science Publisher, USA	2012
4	<b>Cashew Nut (<i>Anacardium occidentale</i>)</b>  In: Antioxidants in Vegetables and Nuts – Properties and Health Benefits, G. A. Nayik, A. Gull (eds.), <a href="https://doi.org/10.1007/978-981-15-7470-2_28">https://doi.org/10.1007/978-981-15-7470-2_28</a>	Malik JA and <b>Bhadoria M</b>	# Springer Nature Singapore Pte Ltd.	2020
5	<b>Exploitation of plant phenolics in animal farming</b>  In: Plant phenolics in sustainable agriculture <a href="https://doi.org/10.1007/978-981-15-4890-1_3">https://doi.org/10.1007/978-981-15-4890-1_3</a>	Malik JA, <b>Bhadoria M</b> , Lone R and Hajam YA	# Springer Nature Singapore Pte Ltd.	2020
6	<b>Polyhydroxyalkanoates: An Indispensable Alternative</b>  DOI: 10.4018/978-1-5225-9452-9.ch018	Malik JA and <b>Bhadoria M</b>	IGI Global.	2020

## Research Supervision:

S No	Category	Total no	Year
1	<b>Ph. D. Supervision: 07 + 04</b>		
	Awarded	07	2018-2021
	Registered	04	2020 and 2021
2	<b>M. Sc. Dissertations submitted:</b>	<b>30</b>	
3	<b>B. Sc. Dissertations submitted:</b>	<b>12</b>	

## Administrative Responsibilities:

1. Member, Academic Council: 2012-2014, 2018-2020
2. Member, Standing Committee of Academic Council: 2012-2014
3. Member, Proctorial Board: 2016-2020, 2022-till now
4. Member, Disciplinary Committee  
Life Science: 2019-20; 2018-2019
5. Member, Anti-ragging Committee  
GGV: 2016-17  
Life Science: 2019-20; 2018-2019; 2017-2018, 2015-2016; 2012-13  
Dept of Zoology: 2014-15
6. Centre Superintendent and Assistant Centre Superintendent: 6 times
7. Member, Cultural Coordinator: 2012-2014
8. Head of the Department: 2016-2020
9. Chairman and member, Board of Studies of Zoology
10. Chairman and member, Departmental Research Committee of Zoology
11. Member, School Board, Life Sciences
12. Convener, Research Advisory Committee: 04
13. Member, Research Advisory Committee: 10

## Additional Information:

### Professional recognitions:

S. No.	Conference/Workshop/ Seminar	Organisation/ Institution	Year
<b>1</b>	<b>Chaired session</b>		
1.1	National conference	Guru Ghasidas University, Bilaspur (CG) India	2016
1.2	International conference	Jiwaji University, Gwalior (MP) India	2019
<b>2</b>	<b>Plenary Lectures/ Invited Talks</b>		
2.1	National conference	Jiwaji University, Gwalior (MP) India	2013
2.2	Delivered, 02 Lectures in a Refresher Program	UGC-HRDC Guru Ghasidas University, Bilaspur (CG) India	2015
2.3	International conference	Jiwaji University, Gwalior (MP) India	2019
2.4	Subject expert in Refresher Program	UGC-HRDC Guru Ghasidas University, Bilaspur (CG) India	2021 2022
<b>3</b>	<b>Paper setter</b>		
3.1	Barhampur University, Barhampur (Odessa)		
3.2	Bundelkhand University, Jhansi (UP)		
3.3	Barkatullah University, Bhopal (MP)		
3.4	Bilaspur University, Bilaspur (CG)		
3.5	Jiwaji University, Gwalior (MP)		
3.6	Guru Ghasidas University, Bilaspur (CG)		
3.7	Shaheed Nandkumar Patel Vishwavidyalaya, Raigarh (CG)		
3.8	Pt. Ravishankar Shukla University, Raipur (CG)		
<b>4</b>	<b>External Examiner for Ph. D. Thesis evaluation and / or Viva voce</b>		
4.1	Barkatullah University, Bhopal (MP)		
4.2	Jiwaji University, Gwalior (MP)		

### Scientific contribution as editor, reviewer:

S No	Category	Details
1	Member, Board of Editor	Flora and Fauna
2	Peer reviewer for	e-Based Complementary and Alternative Medicine Experimental and Toxicologic Pathology Environmental Toxicology and Pharmacology African Journal of Microbiology Research Journal of Applied Biomedicine Journal of Ethanopharmacology International Journal of Medicine and Medical Sciences Indian Journal of Pharmacology

### Fellowships: International

1. Availed **Post Doctoral Fellowship** (PDF) from PDF Foundation of China in October 2006 at National Laboratory of Applied Organic Chemistry, Lanzhou University, Lanzhou, P.R. China.
2. Selected in **Chinese Government Scholarship-2004**, through Govt. of India, Ministry of Human Resource & Development (Department of Secondary and Higher Education).

### Fellowships: National

3. **Women Scientist** in DBT Project “Chemical characterization of Indian propolis and evaluation of its therapeutic potential against hepatic cholestasis and cirrhosis induced by combined consumption of high fat diet and alcohol” (Awarded in September 2011)
4. **Senior Research Associate (Pool officer)** in CSIR Project “Resveratrol, curcumin and emodin against combined consumption of high fat diet and alcohol induced hepatorenal abnormalities: the *in vivo* study”. 1 Nov 2008 to 30 May 2011.
5. **Senior Research Fellow** in CCRUM Project “Ameliorative effect of natural products in liver regeneration against model hepatotoxicants: *in vivo* and *in vitro* approach”. 16 June 2008 to 31 October 2008.
6. **Research Associate** and **SRF** in ICMR Project “Therapeutic effectiveness of Propolis extract and its active principle against carbon tetrachloride induced liver damage in rats”. 07 October 2004 to 31 July 2006 and 01 August 2003 to 06 October 2004.
7. **Project Fellow** in UGC Project “Hepatoprotective mechanism of action of some medicinal plants and their active principles”. 01 September 2000 to 30 June 2002
8. **Research Assistant** in ICMR Project “*Pueraria tuberosa* DC: Contraceptive efficacy and safety profile” 1999-2000

### Foreign visits:

1. Visited France (**Paris**) for attending XX<sup>th</sup> International Congress of Zoology during 25- 30 August, 2008.
2. Spent 1 year and 6 months in **P.R. China (Lanzhou)** for holding PDF sponsored by **PDF Council of China** since October, 2006 to March, 2008.
3. Visited **PR China** for attending international workshop of **ITWTCVMT-2006** during 26 June-12 July 2006.

### Foreign travel grants:

1. Availed the Student Recognition Award to attend the XX<sup>th</sup> International Congress of Zoology held in Paris, France during 26-29 August, 2008.
2. Selected for foreign travel grant sanctioned from Council of Scientific and Industrial Research (CSIR), New Delhi, INDIA through letter No. TG/3411/08-HRD, dated 28-07-2008.
3. Availed foreign travel grant to attend the XX<sup>th</sup> International Congress of Zoology at Paris (France) from Department of Science & Technology (DST), Government of India, New Delhi, through letter No. SR/ITS/01593/ 2008-2009, dated 12-08-2008.

## 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:** [Satendra Kumar Nirala and 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 *trans*- resveratrol and caffeic acid phenethyl ester as a method to treat acrylamide induced sub chronic toxicity in multiple organs**”.  
**Name of Applicants:** [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](#)
  
- ❖ 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**”.  
**Name of Applicants:** [Piyush Shukla & Satendra Kumar Nirala](#)  
**Name of inventors:** [Piyush Shukla](#), [Satendra Kumar Nirala](#), [Monika Bhadauria](#), [Sadhana Shrivastava](#) and [Sangeeta Shukla](#)  
**Ref./Application No:** [202121056442](#)  
**Appl Number:** [TEMP/E-1/64061/2021-MUM](#)  
**Date of filing:** [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](#)

### Advanced workshops /trainings/conference organized:

Responsibility taken	Period (From – To)	Details
<b>International</b>		
Organizing Secretary	<b>28-10-2018 to 31-10- 2018</b>	International conference
<b>National</b>		
Co-ordinator	<b>2017</b>	Science day celebration
Organizing Secretary	<b>2016, 2017, 2018</b>	Skill development program on Snake rescue and awareness

### Advanced workshops & trainings participated:

Organization	Period From -To	Details of Training
<b>International</b>		
Lanzhou Institute of Animal Sciences and Veterinary Pharmaceutics, Chinese Academy of Agricultural Sciences, Lanzhou - P.R. China.	26-06-2006 To 12-07- 2006	2nd International Training Workshop on Traditional Chinese Veterinary Medicine and Techniques (ITWTCVMT)
<b>National</b>		
SOS in Zoology, Jiwaji University, Gwalior (MP) India	16-11-2016	Science Communication and Career Workshop
Jointly organized by Chhattisgarh Council of Science and Technology and Guru Ghasidas University, Bilaspur (CG) India	26-02-2016 To 27-02-2016	Workshop on Intellectual Property Rights, IP Commercialization and Prevention of Plagiarism
Department of Library and Information Science, Guru Ghasidas University, Bilaspur (CG) India	16-12-2014	Author Workshop
Department of Zoology Guru Ghasidas University, Bilaspur (CG) India	25-01-2014	National Workshop on Molecular updates in biological sciences
Department of Zoology Guru Ghasidas University, Bilaspur (CG) India	24-08-2013 To 25-08-2013	National Workshop on Alternatives to Use of Animal Sacrifice in Life Science Education for Teachers
UGC-Academic Staff College, Guru Ghasidas University, Bilaspur (CG) India	22-11-2012 To 26-12-2012	4 <sup>th</sup> Orientation Program for Teachers
Career Counselling Cell, Jiwaji University, Gwalior (MP) India	11-13 March 2011	Workshop on Career Counselling
Jiwaji University, Gwalior (MP) India	05 March 2010	Intellectual Property rights Awareness Workshop
SCTIMT, Thiruvananthapuram (Kerala) India.	29-10-2004	Continuing education course on good laboratory practices
Jiwaji University, Gwalior (MP) India	27-1-2004 To 31-1-2004	Maintenance and Repairing of Electronic Laboratory Instruments
Jiwaji University, Gwalior (MP) India	21-02-2003	Workshop on Teaching and Research in Ethno biology in New Millennium
Indian Institute of Integrative Medicine (Formerly R.R.L., CSIR), Jammu - India.	12-8-2002 To 23-09-2002	Hepatoprotective and anticancer activities of some plant products
Jiwaji University, Gwalior (MP) India	4-12-1999 To 5-12-1999	Morphometric Evolution of Brain For Neurotoxicological Studies
Jiwaji University, Gwalior (MP) India	25-8-1999 To 15-9-1999	Introduction of Biotechnology (Plant Tissue Culture)