

# Curriculum Vitae

Ms. MONIKA BHADAURIA (Ph.D.)

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## *DETAILS OF THE RESEARCH WORK DONE:*

### *Previous Position:*

**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.

## *ACADEMIC PROFILE:*

- ❖ Ph. D. awarded in the year of 2004 from Jiwaji University, Gwalior (M.P.) India.  
Title of thesis “*Hepatoprotective evaluation of efficacy of natural product on Experimental liver injury in rats*”
- ❖ Completed M. Sc. in the year 1999, with first division securing aggregate of 65.5% marks from Dr. Bhim Rao Ambedkar University, Agra (U.P.) India.
- ❖ Completed B.Sc. in the year 1996 with first division securing aggregate of 61% from Bundelkhand University, Jhansi (U.P.) India.
- ❖ Passed Intermediate and High School from S.P.G.G.I. College, Jhansi (U.P.) India with second division.

### ***CO-CURRICULAR ACTIVITIES:***

- ⊙ PROJECT WORK: During Post-Graduation “Flora and Fauna of Ooty”.
- ⊙ COMPUTER KNOWLEDGE: One-Year Diploma in Computer Application and Software Development.

### ***AREAS OF RESEARCH INTEREST:***

#### ***Hepatoprotection:***

- Biological evaluation of active substances from herbal and natural resources for the treatment of liver diseases against model hepatotoxicants (CCl<sub>4</sub> & Acetaminophen).
- Protective effects of herbal and natural products against Alcohol and high fat diet induced liver abnormalities.

#### ***In vitro studies:***

- Cell culture and cytotoxicity assay for cell viability by MTT/SRB.
- Determination of therapeutic potential of natural products in cell culture.
- Cellular morphology using fluorescent stains

#### ***Metal Toxicology:***

- 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/adjuvants/trace elements supplementation following metal intoxication; 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 facility
- Animal care, breeding and maintenance
- Preparation of technical reports, scientific papers & articles and book editing.

### ***TEACHING EXPERIENCE TO TEACH PG CLASSES:***

**Biochemistry, Physiology and Anatomy of vertebrates and invertebrates**

## *SCIENTIFIC AWARDS, RECOGNITIONS & PRIZES:*

### *INTERNATIONAL:*

1. **Student Recognition Award 2008** from International Congress of Zoology (Beijing) to attend the XX<sup>th</sup> International Congress of Zoology to be held at Paris (France).

### *NATIONAL:*

2. **Best Science Research Award 2009** sponsored by M. P. Council of Science and Technology, Bhopal, India
3. **Junior Scientist of the year 2005** by National Environmental Science Academy, New Delhi, India
4. **Outstanding Young Person Award 2005** in Academics & Scientific field from JAYCEES-Gwalior, India
5. **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.
6. **I.S.C.A. Young Scientist Award 2004** from Indian Science Congress Association at Punjab University, Chandigarh, India.
7. **Young Scientist Award 2002** in “National Conference on Environmental Biology-2002” Saurashtra University, Rajkot, India.
8. **First Prize in Oral Presentation** in Life Sciences **2001** in Jiwaji University Research Seminar, Gwalior, India.
9. **M. P. Young Scientist Award 2001** in Zoology from M.P. Council of Science and Technology, Bhopal, India

### *FOREIGN VISITS:*

1. Visited France (**Paris**) for attending XX<sup>th</sup> International Congress of Zoology during 25<sup>th</sup> - 30<sup>th</sup> 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<sup>th</sup> June-12<sup>th</sup> July 2006.

### **FOREIGN TRAVEL GRANTS:**

1. Availed the Student Recognition Award to attend the XXth International Congress of Zoology held in Paris, France during 26th - 29th 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.

### **ADVANCED WORKSHOPS & TRAININGS PARTICIPATED:**

<b>Organization</b>	<b>Period From - To</b>	<b>Details of Training</b>
<b>INTERNATIONAL:</b>		
Lanzhou Institute of Animal Sciences and Veterinary Pharmaceutics, <b>Chinese Academy of Agricultural Sciences</b> , Lanzhou - P.R. China.	<b>26-06-2006 To 12-07- 2006</b>	2 <sup>nd</sup> International Training Workshop on <b>Traditional Chinese Veterinary Medicine and Techniques (ITWTCVMT)</b>
<b>NATIONAL:</b>		
SCTIMT, Thiruvananthapuram (Kerala) India.	<b>29-10-2004</b>	<b>Continuing education course on good laboratory practices</b>
Jiwaji University, Gwalior-India	<b>27-1-2004 To 31-1-2004</b>	Maintenance and Repairing of Electronic Laboratory Instruments
Jiwaji University, Gwalior-India	<b>21-02-2003</b>	Workshop on <b>Teaching and Research in Ethno biology in New Millennium</b>
Indian Institute of Integrative Medicine (Formerly <b>R.R.L., CSIR</b> ), Jammu - India.	<b>12-8-2002 To 23-09-2002</b>	<b>Hepatoprotective and anticancer activities of some plant products</b>
Jiwaji University, Gwalior-India	<b>4-12-1999 To 5-12-1999</b>	<b>Morphometric Evolution of Brain For Neurotoxicological Studies</b>
SOS in Botany, Jiwaji University, Gwalior-India	<b>25-8-1999 To 15-9-1999</b>	<b>Introduction of Biotechnology (Plant Tissue Culture)</b>

### ***MEMBERSHIP OF SCIENTIFIC SOCIETIES:***

- ⊙ Indian Science Congress Association, Kolkata - India
- ⊙ Society of Toxicology, Lucknow - India
- ⊙ National Environmental Science Academy, New Delhi - India

### ***SCIENTIFIC CONTRIBUTION AS REVIEWER:***

Active reviewer of the manuscripts obtained from:

- ❖ Evidence Based Complementary and Alternative Medicine
- ❖ Experimental and Toxicologic Pathology
- ❖ Environmental Toxicology and Pharmacology
- ❖ African Journal of Microbiology Research
- ❖ Journal of Applied Biomedicine
- ❖ International Journal of Medicine and Medical Sciences
- ❖ Indian Journal of Pharmacology

### ***PATENT:***

- ❖ Indian patent entitled “Propolis extract: a potent antioxidant and hepatoprotective agent and the process for preparation thereof”.

Name of inventors: Sangeeta Shukla, Monika Bhadauria, Satendra Kumar Nirala, Sadhana Shrivastava and Shamshad Ahemad.

Name of Applicant: 1) CCRUM, NEW DELHI & 2) JIWAJI UNIVERSITY, GWALIOR

Application No: 1827/DEL/2009 A

Date of filing: 03/09/2009

Date of publication: 23/04/2010

International classification: A61K 35/64

### ***PARTICIPATION IN DIFFERENT SYMPOSIA AND CONFERENCES:***

*INTERNATIONAL:* 04

*NATIONAL:* 16

1. Sharma A, **Bhadoria M** and Jadon A (2004) Therapeutic Effect of propriety herbal formulation on CCl<sub>4</sub> induced liver damage in rats. in “Reproductive Biology”, DD Publishers, New Delhi, India pp 312-322. (ISBN 81-7629-516-7).
2. **Bhadoria M**, Nirala S K, 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”, Nova Publishers, USA. (ISBN-978-1-62081-483-3).
3. Nirala S K, **Bhadoria 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”, Nova Publishers, USA. (ISBN-978-1-62081-456-7).

**PAPERS PUBLISHED: 37 (Cumulative Impact Factor: 60.529 /2011)**

4. **Bhadoria M** (2012) Combined treatment of HEDTA and propolis prevents aluminum induced toxicity in rats. *Food and Chemical Toxicology* 50: 2487–2495. **Impact Factor: 3.078/2011**
5. **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: 4.774/2011**
6. 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: 0.235/2010**
7. **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: 2.781/2011**
8. **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: 2.199/2011**

9. **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: 1.469/2011**
10. **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: 3.078/2011**
11. 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: 3.078/2011**
12. 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: 3.014/2011**
13. **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: 1.208/2011**
14. Nirala SK, **Bhadoria M**, Shukla S, Agrawal OP, Mathur A, Li PQ and Mathur R (2008) Pharmacological intervention of tiferron and propolis to alleviate beryllium induced hepatorenal toxicity. *Fundamental and Clinical Pharmacology* 22: 403-415. **Impact Factor: 1.799/2011**
15. Nirala SK, Li PQ, **Bhadoria M** and Guo GQ (2008) Combined effects of gallic acid and propolis on beryllium induced hepatorenal toxicity. *Integrative Zoology* 4: 195-208, **Impact Factor: 1.208/2011**
16. Nirala SK and **Bhadoria M** (2008) Propolis reverses acetaminophen induced hepatorenal biochemical and histopathological alterations. *Archives of Pharmacal Research* 31: 451-461. **Impact Factor: 1.592/2011**
17. 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: 2.478/2011**