



**Centre/School/Special Centre:** School of Interdisciplinary Education and Research  
**Department:** Department of Biotechnology  
**Phone:** 7389451727  
**Email:** bhatt1996@yahoo.com

## **Dr. Renu Bhatt**

### **Qualifications**

- **Ph.D.** Zoology, Banaras Hindu University, Varanasi, India
- **M.Sc.** Zoology, Garhwal University, India
- **B.Sc.** Zoology, Botany and Chemistry, Garhwal University, India

### **Area of Interest/Specialization**

Cancer Biology and Nephrotoxicity

### **Experience**

- **Associate Professor**, Department of Biotechnology, Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh, India (2011-till date)
- **Consultant**, Center for Nanobiotechnology and Life Science Research, Alabama State University, Montgomery, AL, USA (2011)
- **Research Faculty**, Department of Psychology, Neuroscience Program, Florida State University, Tallahassee, FL, USA (2008-2010)
- **Postdoctoral Fellow**, Department of Pediatrics, Medical College of Wisconsin, Milwaukee, WI, USA (2005-2008)
- **Research Associate**, Department of Medicine, University of Arkansas for Medical Science, Little Rock, AR, USA (2002-2005)
- **Post-doctoral Associate**, Department of Animal Science, University of Minnesota, St. Paul, MN, USA (2000-2002)

- **Pool Scientist**, Council of Scientific and Industrial Research [CSIR], New Delhi, India.

### **Awards and Honors**

- Exchange program visitor, Department of Animal Science, MN, USA. 2000-2002
- Young Scientist Project Award, Department of Science and Technology, New Delhi, India 1999-2000
- Pool Scientist Award, CSIR, New Delhi, India 1996-99
- Research Associate Award, CSIR, New Delhi, India 1991-1995
- Pre doctoral Fellowship Award, Department of Atomic Energy, Trombay, India 1986-1989

### **Research Projects**

- Exploring Fungal diversity from selected area of Assam Using Biochemical and Molecular Approach for Industrially Important Bio-molecules. Twining Project DBT (CO-PI). 2012-2015. (This project was transferred to central University of Rajasthan in year 2013). 27 lakh
- CCOST Project ‘Phytochemical investigation of *Moringa oliefera* plant extract and its protective role on cisplatin nephrotoxicity’ 2015-2017. 4.60 lakh

### **International Collaboration/Consultancy**

- **Consultant**, Center for Nanobiotechnology and Life Science Research, Alabama State University, Montgomery, AL, USA (2011)

### **Best Peer Reviewed Publication (up-to 10)**

- Purena, R., Seth, R. and Bhatt, R. (2018). Protective role of *Emblica officinalis* hydro-ethanolic leaf extract in cisplatin induced nephrotoxicity in Rats. *Toxicology reports*, 5, 270-277. (Impact Factor: 4.81).
- Pandey, N, and Bhatt, R. (2018). Improved biotransformation of arsenic by arsenite oxidase–Chitosan nanoparticle conjugates. *International journal of biological macromolecules*, 106, 258-265. (Impact Factor: 6.953).

- Pandey, N and Bhatt, R (2015): Exiguobacterium mediated arsenic removal and its protective effect against arsenic induced liver toxicity in *Channa striata*. *Toxicology Report* 2:1367-1375. (Impact Factor: 4.81).
- Panigrahy KS, Bhatt R and Kumar A (2016): Reactive oxygen species: Sources, consequences and targeted therapy in Type-II Diabetes. *Journal of drug targeting*, 25(2), 93–101. (Impact Factor: 5.121).
- Bhange K, Chaturvedi V, Bhatt R (2016): Ameliorating effects of chicken feathers in plant growth promotion activity by a keratinolytic strain of *Bacillus subtilis*. *Bioresources and Bioprocessing* PF1. 3:13. (Impact Factor: 4.578).
- Bhange K, Chaturvedi V, Bhatt R (2015): Potential biofilm dispersal by a partially purified keratinase produced by *Stenotrophomonas maltophilia* strain Kb2. *Biocatalysis and Agricultural Biotechnology* 4: 801-805. (Impact Factor: 3.28).
- Chaturvedi, V Bhange K, Bhatt R, Verma P (2014): Production of keratinases using chicken multifunctional strain of *Pseudomonas stutzeri* and its dehairing application. *Biocatalysis and Agricultural Biotechnology*. 3:167-174 (Elsevier).(IF-0.8). (Impact Factor: 3.28).
- Chaturvedi, V Bhange K, Bhatt R, Verma P (2013): Biotransformation of high amounts of malachite green by a multifunctional strain of *Pseudomonas mendocina* and its ability to metabolize dye adsorbed chicken feathers. *Journal of Environmental Chemical Engineering* 1(4), 1205-1213.(IF-1.3). (Impact Factor: 5.88).
- Gil, M, Bhatt, R, Picotte Katie G and Hull EM (2013): Sexual experience increases oxytocin receptor gene and protein expression in the medial preoptic area of the male rat. *Psychoneuroendocrinology* 38:1688-1697. (Impact Factor: 4.905).
- Gil, M, Bhatt, R, Picotte Katie G and Hull EM (2011): Oxytocin in the medial preoptic area facilitates male sexual behavior in the rat. *Hormones and Behavior* 59(4): 435-444. (Impact Factor: 4.445).

#### **Recent Books/Book Chapters/Monographs etc.**

- Chaturvedi, C.M. and Bhatt, R. (1990): The effect of different temporal relationships of 5-hydroxytryptophan (5-HTP) and L-dihydroxyphenylalanine (L-DOPA) on reproductive and metabolic response of migratory Red headed bunting (*Emberiza bruniceps*). *Cycles*

in Human and Nature. The srew press Inc. London, Swets & Zeitlinger, The Netherlands.  
ISBN 905809-5711

- Mishra MK, Erglou E, Jain S, Singh SR, Bhatt R and Singh SR (2012): Role of TGF $\beta$  and Regulargloutory T Cells in Prostate Cancer. In: Signaling, Gene Regulation and Cancer Nova Science Publisher, Inc., New York. ISSN 0258-851x
- Bhadauria M, Nirala SK, JaswalA, Raghuvanshi S, Bhatt R and ShuklaS(2012). Propolis: therapeutic perspectives against silica induced toxic manifestations. Beneficial Effects of Propolis on Human Health and Chronic Diseases-Vol 2 Nova Publishers USA. ISBN.905809-5711
- Chandra, V., Tiwari, A., Pant, K.K., Bhatt, R. (2022). Animal Cell Culture: Basics and Applications. In: Verma, P. (eds) Industrial Microbiology and Biotechnology. Springer, Singapore. [https://doi.org/10.1007/978-981-16-5214-1\\_24](https://doi.org/10.1007/978-981-16-5214-1_24)

### **Research Supervision**

- Total No. of Ph.D. Students: Awarded: 05; Ongoing: 02
- Total No. of M. Sc. Dissertation Students: 54
- Total No. of UG Students: 48

### **Administrative Responsibilities**

- Dean, School of Life Sciences, GGV, Bilaspur 2016-2019
- Member, Academic Council, GGV, Bilaspur
- Head, Department of Biotechnology, GGV, Bilaspur 2016 - till date
- Chairman, Departmental Research Committee, Dept. of Biotechnology, GGV, Bilaspur
- Chairman, Member of Departmental Purchase Committee, Dept. of Biotechnology, GGV, Bilaspur
- VC nominated Member of UGC and DBT project in Zoology, Botany and Rural Technology, GGV, Bilaspur
- Chairman, Departmental Board of Studies, Dept. of Biotechnology, GGV, Bilaspur
- Programme Coordinator, DBT Sponsored PG Programme (2020-2025)

## **Additional Information**

### **Conference/ Workshop organized:**

- R. Bhatt (Convener): National Seminar on Innovations and Entrepreneurship in Biotechnology 26-27 Dec. 2016. Organized by: Department of Biotechnology, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.).
- R. Bhatt (Convener): National workshop on Animal Cell Culture Techniques-2017. Organized by: Department of Biotechnology, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.).
- R. Bhatt (Dec 2017 Course Co-ordinator): GIAN (Global Initiative Academic Network)-Cancer health Disparity (Short term course). At Department of Biotechnology, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.).
- R. Bhatt (Convener): National workshop on Animal Cell Culture Techniques and Applications-2018. Organized by: Department of Biotechnology, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.).
- R. Bhatt (Organizing Secretary): International Conference on Emerging Researches in Biosciences (ICERB-2018). Organized by: Department of Zoology, SOS in Life Sciences, Guru Ghasidas Vishwavidyalaya, Koni.

### **Invited Talk/ Chaired Session:**

- Bhatt R (2017): invited talk on in-vitro cell line study for drug discovery and development organised by Columbia institute of pharmacy, Raipur (7-8 Sep).
- Bhatt R (2017): Chaired the session International Conference Pharma science organised by Columbia institute of pharmacy, Raipur (23-24 Sep)
- Bhatt R (2017): Chaired the session International Conference on Bharat Rejuvenation organized by Guru Ghasidas Vishwavidyalaya. Bilaspur
- Bhatt R (2018): Invited Talk on Medicinal chemistry and its application as a Resource person at Refresher course (Academic Staff College) Guru Ghasidas Vishwavidyalaya, C.G. June
- Bhatt R, (2015): As a Resource person (Examiner of presentations) HRDCGGV Bilaspur (CG) Nov.18-December 19

- Bhatt R, (2015) As a Resource person Refresher Course Organized by ASC Pt. Ravi Shankar Shukla University Raipur (CG)
- Bhatt R (2018): Invited talk on Role of Bezafibrate on Cisplatin Induced Nephrotoxicity at Workshop on Animal cell culture organised by Columbia institute of pharmacy, Raipur (23-24 Sep)

#### **Workshop Participated:**

- Bhatt, R (2013): Participated National workshop on alternatives to use of animal sacrifice in Life Science Education for teachers. Department of Zoology, GGV Bilaspur India
- Bhatt, R (2014): Participated National workshop on Molecular updates in Biological Sciences.
- Bhatt, R Participated as visiting Scientist at training courses in Nanotechnology UAB, organized by Alabama State University, Montgomery, AL USA, 15 days (23rd Dec to 6th Jan 2012).

#### **Professional Membership**

- Member, Society for Neuroscience, USA (2008-2010)
- Member, Society for Behavioral Neuro-endocrinology, USA (2009-2010)
- Member, American Association for the Advancement of Science, USA (2003-2005)
- Life member, Society for Reproduction Biology and Comparative Endocrinology (Since 1992)
- Life member, Indian Science Congress (Since 2015)