

# **CURRICULUM VITAE**



## **DR. NIKHIL MISHRA**

**Ph.D., CG-SET, 2017 (LIFE Science), M.Sc. (Biotechnology)**

nikhil\_0331@rediffmail

Tel: 8817756216

## **PROFESSIONAL OVERVIEW**

Seeking a career to get challenging position of faculty and share my knowledge and experience with students and to gain more experience in the field of education and teaching for innovative knowledge based transformation of society.

## **CORE QUALIFICATIONS**

Research & Teaching	Counseling
Active Listening	Critical Thinking
Curriculum Development	Scientific Writing
Learning Strategies	Module Development

## **ACCOMPLISHMENTS**

- Acquired VII<sup>th</sup> Merit position in M.Sc. Biotechnology in the year 2000.
- Successfully handled and completed Project at graduation level :-  
"Bacteriological Analysis of various Drinking water samples of Bhilai area and Determination of their potability".
- Received Best Paper Presentation Awards three times in National Seminars.
- Published 8 Research Papers in leading Scientific Journals.
- Contributed a Chapter in Book entitled, "Environmental Toxicology". Sonali Publications, Delhi-02.
- Co-authored a Book in the form of a Monograph, "Oxidative Stress induced Genotoxicity in Sickle Cell Anemia". Lambert Academics Publications (LAP), Germany.

## ACADEMIC BACKGROUND

### 2017 CG-SET-1017

[Passed Chhattisgarh State Eligibility Test (Set)-2017 from Life Science subject]

### 2016 Ph.D. (Biotechnology)

[In accord with 2009 regulation of UGC, New Delhi]  
Research Centre: Govt.V.Y.T.PG. Autonomous College, Durg (C.G.)  
University : Pt. Ravishankar Shukla Univeristy, Raipur (C.G.)  
Title of Thesis : "Oxidative Stress Induced Genotoxicity and its Molecular Validation Among Sickle Cell Patients of Chhattisgarh".

### 2000 M.Sc. Biotechnology (62.4%)

Institute : SOS, Life Sciences.  
University: Pt. Ravishankar Shukla University, Raipur (C.G.)  
Subjects : Microbial Biotechnology, Medical Biotechnology, Genetic Engineering, Plant Biotechnology.

### 1998 B.Sc. Microbiology (64%)

Institute : St. Thomas College, Bhilai.  
University: Pt. Ravishankar Shukla Univeristy, Raipur (C.G.)  
Subjects : Microbiology, Chemistry, Botany, Foundation Course (Hindi, English, General Awareness).

### 1994 Higher Secondary (XII<sup>th</sup>) A.I.S.S.C.E. (65.4%)

Board: C.B.S.E.  
School: Kendriya Vidyalaya, Durg.  
Subject: Biology, Chemistry, Physics, English, Hindi, Physical Education & Work Experience.

### 1992 Matric (X<sup>th</sup>) A.I.S.S.E. (53.8%)

Board : C.B.S.E.  
School : Kendriya Vidyalaya, Durg.  
Subjects: Science, Maths, Social Studies, English, Hindi, Physical Education & Work Experience.

## THESIS/ DISSERTATION

**Title of the Thesis:** "Oxidative Stress Induced Genotoxicity and its Molecular Validation Among Sickle Cell Patients of Chhattisgarh".

Sickle cell anemia disorder is one of the most significant hemoglobinopathy prevalent across the world especially among tribal population. Sickle cell disease (SCD) is an autosomal recessive disorder in which red blood cells become sickle shaped and thus become fragile. In my study, I have established that sickled individuals are physiologically as well as genetically deprived from the protection against oxidative stress and are susceptible to further deterioration in terms of complications related to oxidative stress, DNA and chromosomal damages and also gene alterations. The finding may be helpful for management of sickling patients to improve their quality of life.

## EXPERIENCE

- 1<sup>st</sup> August 2022 to till date** **Assistant Professor**  
Working as Assistant Professor in the Department of (C.G.) under self finance scheme.
- 21<sup>st</sup> June 2021 to to 20<sup>th</sup> May 2022** **Assistant Professor**  
Worked as Assistant Professor in the Department of (C.G.) under self finance scheme.
- 19<sup>th</sup> September, 2019 to 31<sup>st</sup> March 2020** **Assistant Professor**  
Worked as Assistant Professor in the Department of (C.G.) under self finance scheme.
- 21<sup>st</sup> August, 2019 to 31<sup>st</sup> March 2020** **Assistant Professor**  
Worked as Assistant Professor in the Department of Biotechnology, Govt. V.Y.T.PG. Autonomous College, Durg (C.G.) under self finance scheme.
- 8<sup>th</sup> August, 2018 to 30<sup>th</sup> April, 2019** **Assistant Professor**  
Worked as Assistant Professor in the Department of Biotechnology, Govt. V.Y.T.PG. Autonomous College, Durg (C.G.) under self finance scheme.
- 1<sup>st</sup> August, 2017 to 30<sup>th</sup> April, 2018** **Guest Lecturer**  
At Department of Biotechnology, Govt. V.Y.T.PG. Autonomous College, Durg (C.G.).
- 1<sup>st</sup> August, 2016 to 30<sup>th</sup> April 2017** **Assistant Professor**  
Worked as Assistant Professor in the Department of Biotechnology, Govt. V.Y.T.PG. Autonomous College, Durg (C.G.), under self finance scheme.
- 16<sup>th</sup> April 2013 to 15<sup>th</sup> April 2015** **Research Scholar**  
Worked as a Research Scholar in the project entitled, "Evaluation of Antioxidant properties of Some Medicinal Plants on Lymphocytes of *Oryctolagus cuniculus*", at Dept of Biotechnology, Govt. V.Y.T.PG. Autonomous College, Durg. (Funding Agency – Chhattisgarh Council of Science & Technology, Raipur)
- Dec.2010 to Dec. 2012** **Research Scholar**  
Worked as a Research Scholar in the project entitled, "Isolation and Characterization of Biomolecules of Pharmaceutical, Cosmetic & Nutritional Importance from Native Plants of Chhattisgarh", at Dept of Biotechnology, Govt. V.Y.T.PG. Autonomous College, Durg. (Funding Agency: Chhattisgarh State Medicinal Plants Board, Raipur, C.G.)
- July 2008 to Nov. 2010.** **Asst. Professor**  
Worked as an Asst. Professor (Adhoc) in Dept. of Biotechnology, Govt. V.Y.T.P.G. Autonomous College, Durg.
- June 15<sup>th</sup> 2006 to 5<sup>th</sup> July 2008** **Worked as an HOD of Science Department.**  
Confluence College of Higher Education. Old Bus Stand Road, Rajnandgaon (C.G.).Tel:- 07744-,404572, 222645.

June 1<sup>st</sup> 2003 to  
Nov. 12<sup>th</sup> 2005

### **Lecturer of Biotechnology & Microbiology**

Sai Institute and Sai Mahavidyalaya, Happy Technical Institute Building, Street-69 Sector-6, Bhilai (C.G.). Tel-0788-2352023, Fax-0788-2227135, 2352023.

18<sup>th</sup> February  
2003 to 18<sup>th</sup>  
February 2004

### **Consultant Microbiologist (Part Time, Contract Basis)**

ISO 9002-2000 Certified Food Processing Industry; BEC FOODS, Village Kuthrel, P.O. Anda-491221, Dist- Durg (C.G.). Tel- 0788-611503.

January 2002 to  
May 2003

### **Microbiological and Chemical Analyst**

Packaged Drinking Water Firm; Himanshu Beverages, 82/A Industrial Estate, Bhilai, 490026. Tel:0788-2381701, 2382701.

## **AWARDS**

- **Best Paper Presentation Award in the National Conference** on “Microbial Diversity: Exploration, Conservation & Application”, 16<sup>th</sup> & 17<sup>th</sup> February, 2013.
- **Best Paper Presentation Award in the National Conference** on “Prospects of Life Science for Human Welfare with Special reference to Chhattisgarh” & First Congress of ZSC. Sponsored by UGC, Bhopal & CCOST, Raipur, on 7-8 February, 2015 at Dept. of Zoology Govt. V.Y.T.PG. Autonomous College, Durg (C.G.).
- **Best Paper Presentation Award in the National Conference** on “Prospects of Life Science: Paradigm Shift in Teaching and Research in Zoological Sciences” & Second Chhattisgarh Congress of Zoological Society of Chhattisgarh. Sponsored by CCOST, Raipur, on 02-03 March, 2016 at Govt. Nagarjuna P.G. College of Science, Raipur (C.G.).

## **PUBLICATIONS**

1. **Nikhil Mishra** and Anil Kumar. 2010. Cloning and Characterization of isolated Taq DNA polymerase gene from phage. The Bioscan. 5(1):07-11. ISSN 0973-7049.
2. **Nikhil Mishra** and Anil Kumar. 2012. Study of Phytochemical Constituents in three Species of *Fabaceae* Family From Dantewada District Of Chhattisgarh, India. Int. J. Pharmacol. Bio. Sci. 6 (3):17-24. ISSN - 0973-6808.
3. Shubha Gupta, Kumudini Indira Toppo, Deepak Karkun, Anil Kumar, **Nikhil Mishra**, Rakesh Dadsena and Tripti Thakur. 2013. Antimicrobial Activity Of *Achyranthes Aspera* Against Some Human Pathogenic Bacteria And Fungi. Int. J. Pharmacol. Bio. Sci. 7(2):43-54. ISSN - 0973-6808.

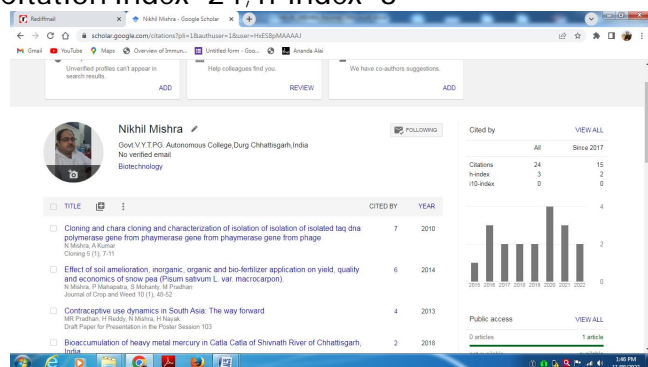
4. **Nikhil Mishra**, Shrish Agrawal, S.K. Jadhav and Anil Kumar. 2014. Traditional Applications and Phytochemical Investigation of *Andrographis paniculata* from Four Districts of Chhattisgarh, India. *Advances in BioResearch*. 5(3): 191-202.
5. **Nikhil Mishra** and Anil Kumar. 2014. Assessment of Micronuclei Frequency in Sickled Tribal Population (Halba &Gond) of District Durg, Chhattisgarh, India. *Advances in BioResearch*. 5(4):125-130.
6. Motiram Sahu, Gautam Das Sahu, **Nikhil Mishra**, Rakesh Dadsena and Anil Kumar. 2015. Study of the Genetic Alteration Among Tobacco Chewers and Smokers by Micronuclei Test. *International Journal of Pharmacology and Biological Sciences*. 9(1&2):157-160.
7. **Nikhil Mishra** and Anil Kumar. 2015. Oxidative Stress Among Sickled Kurmi (Chandrakar) Population Of Durg District, Chhattisgarh, India. *Journal of Environment and Biosciences*. Vol.29 (1):61-67.
8. Devendra Lingojar, Pramod Gupta, Savita Bhutoria, Sarita Lingojar, **Nikhil Mishra** and Anil Kumar. 2016. Variation of Abnormal Hemoglobins Concentrated in Durg, Chhattisgarh: A Brief Note Based on Cross-Sectional Study. *Journal of Genetic Disorders & Genetic Reports*. 5(2): doi:10.4172/2327-5790.1000135.
9. Thakur U., Sharma M., **Mishra N .**, Damle K and Tripathi S. 2018. Bioaccumulation of heavy metal mercury in *Catla Catla* of Shivnath River of Chhattisgarh, India. *Research Journal of Recent Sciences*.7(4):1-5.
10. **Nikhil Mishra**, Seema Tripathi and Anil Kumar, "Chelating Effect of *Adiantum capillus veneries* L on Sodium Arsenite ( $\text{Na}_3\text{AsO}_3$ ) Induced Oxidative Stress in *Orietolagus cuniculus* L." *Research Journal of Bioglobbia* vol.(6) dated 06.02.2019. ISSN:2349-5626.

### Contributions in Books

1. Name of Book – Environmental Toxicology (ISBN 10: 8184112467 ISBN 13: 9788184112467)  
Topic – Impact Analysis on Environment  
Publisher – Sonali Publication, New Delhi – 02.
2. Name of Monograph Published – Oxidative Stress Induced Genotoxicity in Sickle Cell Anemia.  
Publisher – Lambert Academics Publishing (LAP), Germany.  
Author – Anil Kumar  
Co-author – **Nikhil Mishra**

# CURRENT CITATION INDICES

Citation index -24; h-index -3



## PARTICIPATIONS & PRESENTATIONS IN CONFERENCES

1. Participated in National Conference on “**Innovation & Prospects in Life Sciences**”, Department of Life Sciences, Pt. Ravi Shankar Shukla University, Raipur. 14<sup>th</sup> to 16<sup>th</sup> December, 2002.
2. Participated in National Conference on, “ **Species Diversity: Measurement, Magnitude, Gradients, Uses and Conservation**”. (Sponsored by UGC), Govt. Kamala Devi Mahila Mahavidyalaya, Rajnandgaon, C.G.; 26<sup>th</sup> February, 2007.
3. Participated in National Symposium on, “ **Stem Cells- In Future Medicine**”, Department of Biochemistry, Centre For Genetic Diseases & Molecular Biology, Pt. J.N.M. Medical College, Raipur C.G.). 25<sup>th</sup> July 2007.
4. **Presented paper in the National Seminar** on, “ Conservation of Natural Resources with Special Reference to Water Conservation”, 20<sup>th</sup> & 21<sup>st</sup> Feb, 2009, at Govt. Chhatrasal P.G. College, Panna (M.P.).
5. **Presented paper in the National Seminar** on, “Emergence of Modern Biotechnology and its Application”, 10<sup>th</sup> & 11<sup>th</sup> December 2009 at St. Thomas College, Bhilai (C.G.).
6. **Presented paper in the UGC Sponsored National Seminar** on, “Climate Change & its Effect on Biodiversity”, 5<sup>th</sup> & 6<sup>th</sup> February, 2011., at Dept. of Biotechnology, Bhilai Mahila Mahavidyalaya, Bhilai.
7. **Presented paper in the National Seminar** on, “Tribal Health in Central India: Issues & Challenges”, September 15-16, 2011, at Bastar Vishwavidyalaya, Jagdalpur.
8. Participated in National Conference on, “Bioresource: Its Implication, Alteration and Management for the Welfare of Living Kingdom”, October 11-12, 2011, at Dept. of Biotechnology, Govt. V.Y.T.P.G. Autonomous College, Durg.

9. Participated in National Conference on, "Recent Trends in Plant & Microbial Sciences", November 26-27, 2011, at Dept. of Botany & Microbiology, Govt. V.Y.T. PG. Autonomous College, Durg.
- 10. Presented paper in the National Seminar** on, "Importance of Medicinal Plants in Toxicology and Reproductive Endocrinology – A Perspective, January, 20-21, 2012, at Bhilai Mahila Mahavidyalaya, Bhilai.
- 11. Presented paper in the National Symposium** on, "Zoological Sciences, Recent Challenges & its Applications in Medical Research, February 3-4, 2012, at Dept. of Zoology, Guru Ghasidas Central University, Bilaspur.
- 12. Presented paper in the National Seminar** on, "Impact of Climate Change on Diversity of Flora and Fauna", February 13-14, 2012, at St. Thomas College, Bhilai (C.G.).
13. Participated in National Seminar on "Industrialization and Environmental Crisis: An Analysis, January 15<sup>th</sup> & 16<sup>th</sup>, 2013, at Govt. Chandulal Chandrakar Arts & Science College, Patan, Durg (C.G.).
- 14. Presented research paper in the National Conference on** "Microbial Diversity: Exploration, Conservation & Application", 16<sup>th</sup> & 17<sup>th</sup> February, 2013 at Govt. E.R.R. PG. Science College, Bilaspur (C.G.)
15. Participated in National Seminar on "Conservation of Economically Important Endangered Plant Species of Chhattisgarh Region", 25-26 October, 2013 at Bhilai Mahila Mahavidyalaya, Bhilai (C.G.).
- 16. Presented research paper in the National Conference on** "Traditional Knowledge & Biotechnology, at SOS, Biotechnology, Pt. RS. University, Raipur, 22-24 November, 2013.
- 17. Presented research paper in the National Conference on** "Prospects of Life Science for Human Welfare with Special reference to Chhattisgarh" & First Congress of ZSC. Sponsored by UGC, Bhopal & CCOST, Raipur, on 7-8 February, 2015 at Dept. of Zoology Govt. V.Y.T.PG. Autonomous College, Durg (C.G.).
- 18. Presented research paper in the National Conference on** "Prospects of Life Science: Paradigm Shift in Teaching and Research in Zoological Sciences" & Second Chhattisgarh Congress of Zoological Society of Chhattisgarh. Sponsored by CCOST, Raipur, on 02-03 March, 2016 at Govt. Nagarjuna P.G. College of Science, Raipur (C.G.).

19. Participated in UGC Sponsored Interdisciplinary National Seminar on "Behavioral Impact of Animals and Micro-organisms on Human Life and Their Environment", on 3<sup>rd</sup> and 4<sup>th</sup> February, 2017, organized by the Dept. of Zoology, Govt. Dr. W.W. Patankar Girls College, Durg.

## **PERSONAL INFORMATION**

Name : **Dr. NIKHIL MISHRA.**  
Father's Name : Mr. Rajnish Kumar Mishra.  
Date of Birth : 31-03-1976.  
Nationality : Indian  
Marital Status : Married  
Address : 295, Saket Colony, Katul Boad, Bhilai.  
District-Durg. P.O.- S.A.F. Lines.  
Chhattisgarh. Pin-490022.  
E-mail: nikhil\_0331@rediffmail.com.  
Mobile No.- 8817756216.  
Email ID - nikhil\_0331@rediffmail

## **SKILLS**

### **Techniques Familiar To**

1. SDS- PAGE.
2. Nucleic Acid Extraction From plant and animal Sources(Genomic/Plasmid DNA,RNA)
3. PCR based techniques-RAPD, RFLP.
4. Elution of DNA Fragments and their Transformation.
5. ELISA.
6. Spectrophotometric techniques.
7. Plant Tissue Culture Techniques.
8. Animal Cell and Tissue Culture Techniques.
9. Microbiological Assays.
10. Immunological Assays.
11. HPLC
12. Comet Assay
13. Lyophilization

### **AREAS OF INTEREST:**

1. Molecular Biology.
2. Genetic Engineering.
3. Immunology.



4. Microbiology.

## **ADDITIONAL INFORMATION**

### **Workshops:**

- Participated in Workshop on **Molecular Markers in Biotechnology** held from September 01-Sept 15, 2001 organized by the Department of Biotechnology, Indira Gandhi Agricultural University, Raipur (C.G.).
- Participated in **Workshop** entitled, "**Recombinant DNA Technology & Immunology**", organized at Shri Shankaracharya Mahavidyalaya, Bhilai, by Bangalore Genei, on 12<sup>th</sup> & 13<sup>th</sup> January, 2008.
- Participated in a "Combo Workshop on Genomics", organized by Dept. of Biotechnology, Govt. V.Y.T.PG. Autonomous College, Durg, in collaboration with Disha Life Sciences, Ahmadabad, on April 13<sup>th</sup> to 15<sup>th</sup>, 2011.
- Participated in workshop entitled, "Bioinformatics and its Application", organized by Dept. of Biotechnology, Govt. V.Y.T.PG. Autonomous College, Durg, in collaboration with Indian Biosciences and Research Institute, NOIDA (U.P.). India, on April 3<sup>rd</sup> and 4<sup>th</sup>, 2012.
- Participated in "A Hands-On Workshop on "Molecular Markers" organized by Dept. of Biotechnology, Govt. V.Y.T.PG. Autonomous College, Durg, in collaboration with ATG LAB, Pune, on 16<sup>th</sup> – 19<sup>th</sup> March, 2013.
- Participated in workshop on "Bioinformatics", organized by Dept. of Biotechnology, Govt. V.Y.T.PG. Autonomous College, Durg, in collaboration with Sai Bioinfosys, Nagpur, on 28<sup>th</sup> – 30<sup>th</sup> January, 2014.

### **Computer Proficiency:**

- Knowledge of Basic Computers, Bioinformatics, Comet Assay Software (Image J, Casp Lab.) Statistical Software (Minitab, SPSS) & Internet.

**I vouch for the Authenticity of the above information**

Place: Bhilai  
Date: 10/09/2020



(Dr. NIKHIL MISHRA)