

BRIEF PROFILE OF DR ANIL KUMAR

Department of Biotechnology



1. Name : **Dr. Anil Kumar**
2. Father's Name : Late Shri Jyoti Narain Prasad
3. Designation : Professor
4. Official Address : Department of Zoology and
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6. Employment Status : Class – I Gazatted
Department of Higher Education
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ACADEMIC PROFILE

- **M.Sc. Zoology** – (L.N. Mithila University, Darbhanga)
- **NET (CSIR – UGC)** – Life Science
- **Ph.D.** – (L.N. Mithila University, Darbhanga)
- **Orientation Course** (B.R. Ambedkar University, Muzaffarpur)
- **Refresher Course – I** (R.D. University, Jabalpur)
- **Refresher Course – II** (Nagpur University, Nagpur)
- **Refresher Course – III** (Nagpur University, Nagpur)

MEMBERSHIP

- Life Member of Zoological Society of India.
- Life Member of International Society of Zoological Sciences.
- Life Member of Society of Environmental Science.
- Life Member of Society of Science and Environment.
- Life Member of National Environmentalists Association.
- Life Member of Society of Life Sciences.

FELLOWSHIP/ AWARD

- Teacher Fellowship of UGC
- Fellowship of Society of Environmental Science (FSESc)
- Fellowship of Society of Science and Environment (FSSE)
- Fellowship of Society of Life Sciences (FSLSc)
- Fellowship of National Environmentalists Association (FNEA)
- **Gold Medal of Zoological Society of India (Dr. D.K. Belsare Award- 2012)**

RESEARCH PROFILE

- **Research Experience** – 15 years.
- **Experience as Ph.D. Supervisor** – 12 years (From Pt. R.S.Shukla University, Raipur, C.G.)
- **Registered Research Supervisor in Biotechnology and Zoology from Pt. Ravishankar Shukla University, Raipur and MATS University Raipur**
- **Ph.D. Produced** –
 - 13 Ph.D. awarded.
 - 5 scholars working at present from Pt. Ravishankar Shukla University, Raipur in Biotechnology and Zoology.

PUBLICATIONS IN THE FIELD OF ZOOLOGY

- **Anil Kumar**, Effect of Falling Environmental Temperatures on Serum Cholesterol of True Toad – *Bufo melanostictus*, Bioved, Vol. 4(2): 225-258, 1993.
- Verma S.K., **Kumar A**, Effect of Falling Environmental Temperatures on Lipid Content of Fat Bodies in *Rana tigrina*, Env. Eco. Vol. 6(8): 486-488, 1993.
- **Anil Kumar**, C.B. Singh, Effect of Synthetic Pyrethroid fenval (Fenvalerate 20 Ec) on Erythrocyte count of *Mus musculus* (Swiss albino mice) *in vivo*. Indian J. Environ. & Ecoplan. Vol. 3(1): 27-30, 2000.
- Divya Bala Sahu, Rohit Kumar, Seema Tripathi and **Anil Kumar**, Effect of Acute Exposure of Sodium Arsenite (Na_3AsO_3) on Blood Glucose Of *Claria batrachus* (common India cat fish) *in vivo*. Indian J. Environ. & Ecoplan., Vol. 7(3): 637-640, 2003.
- Seema Tripathi, Divya Bala Sahu, Rohit Kumar, **Anil Kumar**. Effects of Acute Exposure of Sodium Arsenite (Na_3AsO_3) on some haematological parameters of *Clarias batrachus* (common Indian cat fish) *in vivo*. Indian J. Environ Health, Vol. 45(3): 183-188, July 2003.
- **Anil Kumar**, Seema Tripathi, Zooplanktonic diversity in relation to aquaculture in some ponds of Durg-Bhili City, Chhattisgarh, Nature Environment and Pollution Technology, Vol.3(2): 175-178, 2004.
- **Anil Kumar**, Seema Tripathi, P. Ghosh, Status of Fresh Water in 21st Century – An overall approach, J. Curr. Sci., 5(1): 197 – 200, 2004.
- Tripti Thakur, Niharika Sinha, Rakesh Dadsena, **Anil Kumar**, Study of Urinary tract microbes and their drug resistancy from human population of Raipur, Durg (C.G.) India. Environmental Degradation and Management, Vol.3: 103-112, 2007.
- Seema Tripathi, **Anil Kumar**. Effect of acute and chronic exposure of sodium arsenite (Na_3AsO_3) on total protein, albumin and globulin in serum of *Oryctolagus cuniculus* L. Toxicological and Environmental Chemistry Vol. 93, (2011), 307-313.

- Seema Tripathi, Rakesh Dadsena, **Anil Kumar**, Study of Certain Biochemical Parameters in Patients of Sickle Cell Anemia. *Adv in Bioresearch*, Vol. 2(2), 2011, 79-81.
- Ekta Sahu, B.N. Sharma and Anil Kumar. Study of pre attainment of puberty in female sex of Chhattisgarh state (India). *Life Science Bulletin*. Vol. 9(1): 79-82, 2012.
- S.R. Kannoje, Renu Maheshwari, **Anil Kumar**, River Ecosystem & Macro Invertebrate: A Review, *Bull. Env. Pharmacol. Life Sci.* Volume 2 [1], 2012: 73-82
- Nisreen Husain, Anil Kumar; Reactive Oxygen Species and Natural Antioxidants: A Review. *Adv. Biores.* Vol. 3(4) 2013: 164-175.
- Nisreen Husain, Anil Kumar. Toxicological remediation of oxidative stress by leaf extract of *Sphagneticola trilobata* in lymphocyte of *Oryctolagus cuniculus* L. *The Bioscan*. Vol. 8(3): 1035-1038, 2013
- Jayasree Balasubramanian, **Anil Kumar**. Study of Effect of Sodium Arsenite on Lipid Metabolism of *Heteropneustes fossilis* and the Chelating Effect of Zeolite. *International Journal of Advances in Biosciences and Bioengineering*. Vol. 1, No. 1, 2013: 22-27.
- Jayasree Balasubramanian, **Anil Kumar**. Effect of Sodium Arsenite on Liver Function Related Enzymes of Cat Fish *Heteropneustes fossilis* and its Chelation by Zeolite. *Ecotoxicology and Environmental Contamination*. Vol. 8, No.2, 2013: 53-58.
- Jayasree Balasubramanian, **Anil Kumar**. Study of Arsenic induced alteration in Renal function in *Heteropneustes fossilis* and its chelation by Zeolite. *Advances in Bioresearch*. Vol.4(3):8-13, 2013.
- Seema Tripathi, **Anil Kumar**. Renal Dysfunction caused by acute and chronic exposure of sodium arsenite (Na_3AsO_3) in *Oryctolagus cuniculus* L. *BIOGLOBIA*. Vol1(1):46-52, 2014.
- Sukhdeo Ram Kannoje and Anil Kumar. Diversity of Molluscan communities in Sheonath River of Chhattisgarh, India. *National Journal of Life Science*. Vol. 11(1): 85-87, 2014.

- Ekta Sahu, Ekta Singh and **Anil Kumar**. Surge of LH Hormone in Female Child During Pre-pubertal Attainment in Chhattisgarh, India. *Bioglobbia*. Vol.1 (1): 119-124, 2014.
- Madhuri Sharma and **Anil Kumar**. Bioaccumulation of Heavy Metals Cadmium in Fish and Prawn of Sheonath River of Chhattisgarh, India. *International Journal of Pharmacology and Sciences*. Vol.9 (3): 25-30, 2015.
- Madhuri Sharma and **Anil Kumar**. Bioaccumulation of Lead in *Catla Catla* of Sheonath River of Chhattisgarh, India. *International Journal of Pharmacology and Sciences*. Vol.9 (1&2): 1-6, 2015.
- Jayasree Balasubramnian and **Anil Kumar**. Study of Histopathological Alterations in the Liver of Arsenic Exposed *Heteropneustis fossilis* and the Chelating Effect of Zeolite. *International Journal of Pharmacology and Biological Sciences*. Vol.9 (1&2): 13-19, 2015.
- Nisreen Husain and **Anil Kumar**. Comparative Evaluation of Antioxidant Property of Chrysanthemum Flower with That of Melatonin in Recovery of Oxidative Stress. Vol.9 (1&2):33-39, 2015.
- Nisreen Husain and **Anil Kumar**. Comparative study of phytochemical constituents in flower of *Wedelia trilobata*, *Achyranthes aspera* and *Chrysanthemum* from Durg District of Chhattisgarh, India. *International Journal of Current Microbiology and Applied Science*. Vol. 4(4): 150-156, 2015.
- Seema Tripathi, Usha Thakur and **Anil Kumar**. Study of Antioxidant Vitamin Levels in Sickle Cell Disorder Affected Tribes of Rjanandgaon District, Chhattisgarh, India. *International Journal of Pharmacology and Biological Sciences*. Vol.9 (1&2): 55-58, 2015.
- Pushpa Sharma and **Anil Kumar**. Study of Impact of Fluoride and Melatonin in Haematological Parameters of Different Reproductive Phases of *Heteropneustes fossilis*. *Asian Academic Research Journal of Social Science and Humanities*. Vol.4 (1): 81-92, 2017.
- Shweta Yadav, Abha Singh, **Anil Kumar**. Allelopathy of *Parthenium hysterophorus* in and around Durg-Bhilai City. *Nature Environment and Pollution Technology*, Vol. 5(1), 93-94, 2006.

PUBLICATIONS IN THE FIELD OF BIOTECHNOLOGY

- Tripti Thakur, Rakesh Dadsena, S.B. Nandeshwar, **Anil Kumar**. Callus induction from hypocotyls and cotyledonary leaves explants on different media combinations in *G. arboreum* cv PA-183 & PA-402. *Adv. Pharmacol.Toxicol.* Vol. 11(1): 145-150, 2010.
- **Anil Kumar**, Rakesh Dadsena and Tripti Thakur. *In Vitro* Callus proliferaton and organogenesis in Mung Bean (*Vigna radiata* L). *Int. J. Pharmacol. Biol. Sci.*, Vol. 4(1) : 1-8 , 2010
- Rakesh Dadsena, Tripti Thakur, **Anil Kumar**. Study of Antimicrobial effect of some Medicinal Plants. *National Journal of Life Sciences.* Vol. 06 (2): 247-250, 2009.
- Nikhil Mishra, **Anil Kumar**. Characterizatou of cloned Taq DNA Polymerase Gene from phage. *National Journal of Life Sciences*, Vol. 6(3): 257-262, 2009.
- Rakesh Dadsena, Tripti Thakur, S.B. Nandeshwar, **Anil Kumar**. Study of Callus Induction and somatic embryogenesis in cotton, *Gossypium arborium* PA 255 using different combination of growth regulators. *The Bioscan*, Vol. 4(4):721-725, 2009.
- Nikhil Mishra and **Anil Kumar**. Cloning and characterization of Isolated Taq DNA Polymerase gene from phage. *The Bioscan*, Vol. 5(1): 7-11, 2010.
- Abha Singh, Shweta Yadav and **Anil Kumar**. Study of Alteration in Immunoglobulin E Influenced by Chronic Exposure of *Parthenium hysterophorus* L. *Journal of Herbal Medicine and Toxicology*, Vol. 4 (1): 65-68, 2010.
- **Anil Kumar**. Antioxidant Effect of *Adiantum capillus veneris* Linn. On Human Lymphocyte : An *in vitro* study. *Journal of cell and Tissue Research* vol. 9(2) 1899 – 1902, 2009.
- **Anil Kumar**. Geographical Distribution of Congress Weeds: *Parthenium hysterophorus* L. Accepted for publication in *Nature Environment and Pollution Technology*.

- **Anil Kumar.** Marine Biotechnology in India. *Advances in Bioresearch*, Vol. 1(1):1-9, 2010.
- **Anil Kumar.** Cyanobacterial diversity of some ponds of Durg- Bhilai of Chhattisgarh. *National Journal of Life Sciences*, Vol. 07(2):181-184, 2010.
- Tripti Thakur, Rakesh Dadsena and **Anil Kumar.** *In Vitro* Study of Callus Induction in *Wedelia trilobata* Using Different Growth Regulators. *Plant Tissue Culture and Biotechnology*, Vol.21(1):95-99, 2011.
- Nikhil Mishra and **Anil Kumar.** Study of Phytochemical Constituents in Three Species Of *Fabaceae* Family From Dantewada District of Chhattisgarh, India. *Int. J. Pharmacol. Bio. Sci.* Vol. 6 (3): 17-24, 2012.
- Rakesh Dadsena and **Anil Kumar.** Comparative Study of Phytochemical Constituents in Two Members of Euphorbiaceae Family From Bastar (Jagdalpur) District of Chhattisgarh, India. *Int. J. Pharmacol. Bio. Sci.* Vol. 6 (3):51-54, 2012.
- Swati Pandey, Ricah Agrawal and **Anil Kumar.** Biodegradation of Monocrotophos (MCP) by soil isolates of *Aspergillus niger* and *Aspergillus fumigates* under influence of Tween-80. *The Ecoscan*. Vol. 6(3&4): 115-118., 2012
- Patel, S. and **Anil kumar.** Molecular Characterization Of Micropropagated Off Type Banana (*Musa Paradisiaca*) Using Dna Markers (ISSR & RAPD). *Journal of Cell and Tissue Research*. Vol. 13(2): 3739-3744, 2013.
- Rakesh Dadsena, Nitish Kumar Sahu, Shirish Agrwal and **Anil Kumar.** Phytochemical Analysis Of Three Endangered Plants (*Costus Speciosus*, *Gloriossa Superba* Linn And *Rauvolfia Serpentine* (Linn) Benth) From Kanker District Of Chhattisgarh, India. *The Bioscan*, Vol. 8(1), 2013.
- Kumudini Indira Toppo, Shubha Gupta, Deepak Karkun, Shirish Agrawal and **Anil Kumar.** Antimicrobial Activity of *Sphagneticola Trilobata* (L.) Pruski, Against Some Human Pathogenic Bacteria And Fungi. *The Bioscan*, Vol. 8(1):1-10, 2013.
- Shubha Gupta, Kumudini Indira Toppo, Deepak Karkun, Nikhil Mishra, Rakesh Dadsena, Tripti Thakur, Shirish Agrawal and **Anil Kumar.** Antimicrobial Activity of *Achyranthes aspera* Against Some Human Pathogenic Bacteria and

Fungi. Int. J. Pharmacol. Bio. Sci. 7(2):43-54.

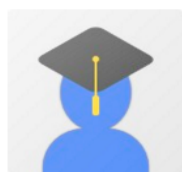
- Shubha Gupta, Kumudini Indira Toppo, Deepak Karkun, and **Anil Kumar**. Antimicrobial activity of *Parthenium hysterophorus* Linn. and *Moringa oleifera* Lam. Against some human pathogenic bacteria and fungus. Journal of Herbal Medicine and Toxicology. 7(1):89-95, 2013.
- Nikhil Mishra, Shrish Agrawal, S.K. Jadhav, **Anil Kumar***. Traditional Applications and Phytochemical Investigation of *Andrographis paniculata* from Four Districts of Chhattisgarh, India. Advances in Bioresearch. Vol 5 (3):191-202, 2014.
- **Anil Kumar**. *Parthenium hysterophorus* L. and its Impact on Living World. Indian Journal of Science & Research. Vol.4 (1): 8-14, 2014.
- Motiram Sahu, Gautam Das Sahu, Nikhil Mishra, Rakesh Dadsena and **Anil Kumar**. Study of the Genetic Alteration Among Tobacco Chewers and Smokers by Micronuclei Test. International Journal of Pharmacology and Biological Sciences. Vol.9 (1&2): 157- 160, 2015.
- Nikhil Mishra, **Anil Kumar***. Assessment of Micronuclei Frequency in Sickled Tribal Population (Halba and Gond) of District Durg, Chhattisgarh, India. Advances in Bioresearch. Vol.5 (4), 2014.
- Nikhil Mishra and **Anil Kumar**. Oxidative Stress Among Sickle Cell Diseased Kurmi (Chandrakar) Population of Durg District, Chhattisgarh, India. Journal of Environment and Biosciences. Vol. 29 (1): 61-67, 2015.
- Kumudini Indira Toppo, Shubha Gupta, Deepak Karkun and **Anil Kumar**. Study of Antimicrobial Effect of *Chrysanthemum morifolium* Ramat. (*Asteraceae*) against some Human Pathogens. International Journal of Pharmacology and Biological Sciences. Vol.9 (1&2): 179-188, 2015.
- Nisreen Hussain and **Anil Kumar***. Antioxidant activity of root of *Achyranthes aspera* and its comparison with Melatonin in recovery of Oxidative Stress. International journal of science and Research. Vol 4 (9): 2319-7064, 2015.
- Nisreen Hussain and **Anil Kumar***. Comparative study of Phytochemical Constituents in Flower of *Wedelia trilobata*, *Achyranthes aspera* and *Chrysanthemum* from Durg district of Chhattisgarh, India. Int. J. Curr. Microbiol.

App.Sci. Vol 4 (4): 150-156, 2015.

- Nisreen Hussain and **Anil Kumar***. Phyto remediation of Oxidative Stress by Root Extract of *Achyranthes aspera* in Lymphocytes of *Oryctolagus cuniculus* L. Indian Journal of Life Science. Vol 5 (1): 024-028, 2015.
- Somendra Kumar, Archana Sudhakar, Neha Tiwari, Swati Pandey, Ekta Singh, Laxmi Verma and **Anil Kumar**. Isolation and Screening of Endophytic Fungi from a Medicinal Plant *Achyranthus aspera* for Antibacterial Activity. International Journal of Pharmacology and Biological Sciences. Vol.9 (1&2): 209-214, 2015.
- Swati Dongre, Smriti Thakur, Priya Chouhan, Yuwan Kishori, Megha Dubey, Preeti Sahu, Abhijeet Tamrakar, Sangeeta Singh, Laxmi Verma, Ekta Singh, Swati Pandey and **Anil Kumar**. Phytochemical and Antimicrobial Activity of *Terminalia arjuna*, *Andrographis paniculata* and *Swertia chirata* against *Aspergillus niger* and *Penicillium*. International Journal of Pharmacology and Biological Sciences. Vol.9 (1): 89-92, 2015.
- Evaluation of Antibacterial Activity and Phytochemical Analysis of Stem and Leaf of *Madhuca longifolia*, *Callistemon citrinus* and *Schleichera triguga*. International Journal of Pharmacology and Biological Sciences. Vol.9 (1&2): 93-99, 2015.
- Nisreen Hussain and **Anil Kumar***. Phytochemical Analysis of Flower, Leaf and Root of *Achyranthes aspera* from Durg district of Chhattisgarh – A comparative study. International Journal of Science and Research. Vol 5 (3): 2319-7064, 2016.
- Shubha Gupta, Kumudini Indira Toppo, Deepak Karkun and **Anil Kumar***. Study of Antimicrobial Activity of *Lantana indica* Linn. against some human pathogens and its phytochemicals. European Journal of Pharmaceutical and Medical Research. Vol 3 (2): 301-308, 2016.
- Devendra Lingojar, Pramod Gupta, Savita Bhutoria, Sarita Lingojar, Nikhil Mishra and **Anil Kumar**. Variation of Abnormal Hemoglobins Concentrated in Durg, Chhattisgarh: A Brief Note Based on Cross Sectional Study. Journal of Genetic Disorder and Genetic Reports. 5:2, 2016.
- Rakesh Dadsena and **Anil Kumar**. Evaluation of Micronuclei in Smokeless

Tobacco Users from Halba and Gond Tribes of Durg District of Chhattisgarh, India. Vol.30 (2): 493-497, 2016.

FIELD OF ACADEMIC ACTIVITY- Biotechnology and Zoology



Anil Kumar

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Citation indices	All	Since 2011
Citations	1328	1060
h-index	11	10
i10-index	13	11



PARTICIPATION IN NATIONAL / INTERNATIONAL – SEMINAR / SYMPOSIA/ WORKSHOPS

1. National Workshop on “**Innovations in Makhana Cultivation**”, jointly organized by Society for Rural development, Madhubani & Mahila Vikas, Darbhanga (Oct. 31st –Nov 1st, 1995).
2. National Seminar & Workshop on “**Environmental Education and Laboratory Technique**”, organized by Kamla Devi Mahila Mahavidyalaya, Rajnandgaon (Feb. 28th, 1996).
3. Regional Seminar on “**Recent Advancement in Fishery Biology**”, jointly organized by Society for Rural development, Madhubani & Mahila Vikas, Darbhanga at C.M.Sc. College, Darbhanga (Nov. 14th – 15th, 1997).
4. National Seminar on “**Chemistry of Environmental Pollution with Special Emphasis on Water Resource in Tribal Area**”, organized by Department of Chemistry, Govt. Digvijay P.G. College, Rajnandgaon (Oct. 6th – 7th, 2001).

5. National Seminar on **“Natural Plants as Medicines – Application and Resources in Chhattisgarh Region”**, organized by Department of Chemistry, Govt. College, Kawardha (Dec. 2nd – 3rd, 2001).
6. National Conference on **“Innovations and Prospects in Life Science”**, organized by School of Life Sciences, Pt. Ravishankar Shukla University, Raipur (Dec. 14th – 16th, 2002).
7. National Colloquium on **“Cave organisms and Adaptation”**, organized by Pt. Ravishankar Shukla University, Raipur (May. 22nd – 23rd, 2004).
8. National Conference on **“Harit Herbal, Swastha Chhattisgarh”**, organized by Pt. Sundarlal Sharma Open University, Bilaspur (Oct. 30th – 31st, 2006).
9. National Conference on **“Biotechnology, Science and Environment”**, organized by School of Biotechnology, Devi Ahilya University, Indore (Dec. 28th – 29th, 2006).
10. National Conference on **“Aerobiology”**, organized by School of Studies in Biotechnology, Pt. Ravishankar Shukla University, Raipur (Jan. 15th – 17th, 2007).
11. National Symposium on **“Bioresources : Technology & Prospects”**, organized by Department of Botany, Govt. Science Post Graduate College, Bilaspur (Mar. 18th – 19th, 2007).
12. National Conference on **“Environmental Sciences : Current Status and Emerging Challenges”**, organized by Department of Botany, Mohanlal Sukhadia University, Udaipur, Rajasthan (Nov. 16th – 17th, 2007).
13. National Seminar on **“Current Issues on Applied Zoology and Environmental Sciences with Special Reference to Eco-restoration & Management of Bioresources”**, jointly organized by University of Lucknow & B.B. Ambedkar University, Lucknow (Dec. 7th – 9th, 2007).
14. National Seminar on **“Botanical Researches : Present Scenario and Future Prospects”**, organized by Department of Botany, Govt. College of Science, Raipur (Jan. 29th – 30th, 2008).
15. International Conference on **“Biodiversity Conservation and Management”**, organized at Cochin (Feb. 3rd – 6th, 2008).
16. International Conference on **“Recent Advances in Environmental Biotechnology”**, organized by Birla College, Kalyan (Nov. 14th – 15th, 2009).

17. National Seminar on **“Bioresources and its Management for Food, Livelihood and Environmental Security”**, organized at Central Institute of Fisheries Education, Mumbai (Dec. 29th – 31st, 2009).
18. National Workshop on **“Hands on Training in Enzymology”**, organized by Department of Biotechnology and Department of Microbiology, Govt. V.Y.T.PG. Auto. College, Durg in collaboration with niTza Biologicals, Hyderabad (Jan. 20th – 23rd, 2010).
19. International Conference on National Seminar on **“Energy, Environment and Development : from Stockholm to Copenhagen and beyond”**, jointly organized by P.G. Department of Environmental Sciences, Sambalpur University and National Environmentalists Association, Ranchi (Dec. 10th – 12th, 2010).
20. National Seminar on **“To find Out Genetic Relationship in Sickle Cell Patients of Kabirdham District”**, organized by A.P.S.G.M.N.S. Govt. P.G. College, Kawardha (Jan. 29th – 30th, 2011).
21. National Conference on **“Climate Change and Its Effect on Biodiversity”**, organized by Department of Biotechnology and Microbiology, Bhilai Mahila Mahavidyalaya, Bhilai (Feb. 5th – 6th, 2011).
22. National Conference on **“Bioresource : Its Implication, Alteration and Management for the Welfare of Living Kingdom”**, organized by Govt. V.Y.T.PG. Auto. College, Durg (Oct. 11th – 12th, 2011).
23. National Conference on **“Advances in Biological Sciences”**, organized by School of Life Sciences, Pt. Ravishankar Shukla University, Raipur (Nov. 5th – 7th, 2011).
24. National Seminar on **“Recent Trends in Plant and Microbial Sciences”**, organized by Department of Botany and Microbiology, Govt. V.Y.T.PG. Auto. College, Durg (Nov. 26th – 27th, 2011).
25. National Seminar on **“Recent Advances in Biological Sciences : Biodiversity and Human Welfare”**, organized by Department of Zoology, University of Lucknow, Lucknow (Dec. 29th – 31st, 2011).
26. National Conference on **“Importance of Medicinal Plants in Toxicology and Reproductive Endocrinology – A perspective”**, organized by Department of Zoology, Bhilai Mahila Mahavidyalaya, Bhilai (Jan. 20th – 21st, 2012).

27. National Symposium on **“Zoological Sciences Recent Challenges & Its Applications in Medical Research”**, organized by Department of Zoology, Guru Ghasidas Vishwavidyalaya, Bilaspur (Feb. 3rd – 4th, 2012).
28. National Seminar on **“Medicinal plants – Utilization and Conservation with Special Reference to Herbal State Chhattisgarh”**, organized by Department of Botany, Govt. D.T. College, Utai, Durg (Feb. 11th – 12th, 2012).
29. National Seminar on **“Impact of Climate Change on Diversity of Flora and Fauna”**, organized by Department of Zoology, St. Thomas College, Bhilai (Feb. 13th – 14th, 2012).
30. National Conference on **“Conservation and Management of Faunal Resources for Sustainability”**, organized by Department of Advanced Zoology and Biotechnology, Guru Nanak College, Chennai (Oct. 3rd – 5th, 2012).
31. National Seminar on **“Industrialisation and Environmental Crisis : An Analysis”**, organized by Department of Geography, Govt. Chandulal Chandrakar Arts & Science College, Patan, Durg (Jan. 15th – 16th, 2013).
32. National Seminar on **“Conservation of Economically important endangered plant species of Chhattisgarh region”**, organized by Department of biotechnology and Microbiology, Bhilai Mahila Mahavidyalaya, Bhilai (Oct. 25th-26th, 2013).
33. National Conference on **“Traditional Knowledge and Biotechnology”**, organized by SOS in Biotechnology, Pt. Ravishankar Shukla University, Raipur (Nov. 22nd – 24th, 2013).
34. National Seminar on **“Biodiversity and Its Management for Food, Livelihood and Environmental Security”**, organized by Department of Zoology, University of Kalyani, Kalyani, West Bengal (Nov. 23rd – 25th, 2013).
35. National Seminar on **“Emerging Trends in Environment Sustainability and Biodiversity Conservation”**, organized by Department of Zoology, Pt. S.N. Shukla Govt. P.G. College, Shahdol, M.P. in collaboration with Zoological Society of India, Bodh Gaya, Bihar (Jan. 18th – 19th, 2014).
36. National Workshop on **“Research Methodology for Medical Sciences”**, organized by department of Physiology, Maitri College of Dentistry and Research Centre, Anjora, Durg (Apr. 12th – 13th, 2014).

37. International Colloquium on **“Endocrinology and Physiology”**, organized by Department of Zoology, Govt. D.B. Girls P.G. Autonomous College, Raipur (Sep. 29th – 30th, 2014).
38. National Seminar on **“Recent Advances in Life Sciences”**, organized by Department of Biotechnology and Microbiology, Bhilai Mahila Mahavidyalaya, Bhilai (Nov. 11th, 2016).
39. National Seminar on **“Threats of Biodiversity and Ecosystems: Impacts of Developmental Projects and Climate Change”**, organized by Department of Zoology and Environmental Science, Gurukul Kangri Vishwavidyalaya, Haridwar in collaboration with Zoological Society of India (Nov. 17th – 19th, 2014).
40. National Seminar on **“Challenges of Human Resource Development in Tribal Areas”**, organized by Department of Economics and Psychology, Govt. Danteshwari P.G. College, Dantewada, Chhattisgarh (Jan. 16th – 17th, 2015).
41. National Conference on **“Socio Economic Analysis of Baiga Tribes”**, organized by Department of Economics, A.P.S.G.M.N.S. Govt. P.G. College, Kawardha (Jan. 20th – 21st, 2015).
42. National Conference on **“Prospects of Life Science for Human Welfare with Special Reference to Chhattisgarh”**, organized by Department of Zoology, Govt. V.Y.T.PG. Auto. College, Durg (7th-8th February, 2015).
43. National Conference on **“Recent Advances in Medicinal Plant Research & Its Application in Human Health”**, organized by Department of Zoology, Bhilai Mahila Mahavidyalaya, Bhilai (Mar. 2nd-3rd, 2015).
44. National Seminar on **“Energy Harvesting Materials and Techniques for Sustainable Development”**, organized by Department of Physics, Govt. V.Y.T.PG. Auto. College, Durg (2015).
45. International Symposium on **“Innovation in Animal Sciences for Food Security, Health Security and Livelihood”**, organized by Babasaheb Ambedkar University, Lucknow in collaboration with Zoological Society of India (Oct. 29th – 31st, 2015).
46. National Workshop on **“Naxalism in Chhattisgarh : Problems and Effects”**, organized by Govt. V.Y.T.PG. Auto. College, Durg (Nov. 26th, 2015).

47. National Workshop on **“Green Chemistry and Its Future Prospects”**, organized by Department of Chemistry, Govt. V.Y.T.PG. Auto. College, Durg (Nov. 30th, 2015).
48. National Seminar on **“Innovations and Prospects in Biotechnology”**, organized by SOS in Biotechnology, Pt. Ravishankar Shukla University, Raipur (Jan. 2nd – 4th, 2016).
49. International Conference on **“Recent Trends in Science and Engineering”**, organized by Department of Physics and Chemistry, Govt. V.Y.T.PG. Auto. College, Durg (Jan. 15th – 16th, 2016).
50. National Conference on **“Prospects in Life Sciences: Paradigm Shift in Teaching and Research in Zoological Sciences”**, organized by Department of Zoology, Govt. Nagarjuna P.G. College of Science, Raipur (Mar. 2nd-3rd, 2016).
51. National Seminar on **“Futuristic Scope in Biotechnological Advancement and Allied Instrumentation”**, organized by Amity Institute of Biotechnology, Amity University, Raipur (Jul. 28th – 29th, 2016).
52. National Seminar on **“Advance Technique in Medical Microbiology”**, organized by Department of Microbiology, Shri Shankaracharya Mahavidyalaya, Junwani, Bhilai (Sep 8th – 9th, 2016).
53. National Workshop on **“Innovative Learning Methods in Animal Sciences : Discouraging Dissection”**, organized by Department of Zoology, Indira Gandhi Government Arts & Commerce College, Vaishali Nagar, Bhilai (Dec. 8th – 9th, 2016).
54. National Seminar on **“Innovations and Entrepreneurship in Biotechnology”**, organized by Department of Biotechnology, Guru Ghasidas Vishwavidyalaya, Bilaspur (Dec. 26th – 27th, 2016).

CONTRIBUTION IN BOOKS

- Name of Book – Biotechnology – Its Growing Dimensions.
 - (ISBN No.978-81-8411-252-8)
 - Topic – Plant Biotechnology
 - Publisher – Sonali Publication, New Delhi – 02.
- Name of Book – Biodiversity Conservation and Management
 - (ISBN No.- 978-81-8356-600-1)

- Topic – Biodiversity and Traditional Knowledge.
- Publisher – Discovery Publication House Pvt. Ltd., New Delhi – 02.
- Name of Book – Environmental Toxicology (ISBN No.978-81-8411-246-7)
 - Topic – Impact Analysis on Environment
 - Publisher – Sonali Publication, New Delhi – 02
- Name of Monograph – Oxidative Stress Induced Genotoxicity in Sickle Cell Anemia
 - Author – Dr. Anil Kumar and Dr. Nikhil Mishra
 - Publisher – Lambert Academic Publishing, Germany

IN EDITORIAL BOARD AND AS A REVIEWER OF NATIONAL/INTERNATIONAL JOURNALS

- World Journal of Medicine and Medical Science Research.
- Scientific Research and Assays.
- International Research Journal of Microbiology.
- International Journal of Nursing and Midwifery.
- Journal of Medicinal Plant Research.
- Journal of Toxicology and Environmental Health Science.
- International Research Journal of Plant Science.
- Bioglobia
- Advances in Bioresearch
- Worked as **Chief Editor** of Proceedings of the National Conference on “Prospects of Life Sciences for Human Welfare with Special Reference to Chhattisgarh” and 1st Congress of Zoological Society of Chhattisgarh, held on February 7-8, 2015
(**International Journal of Pharmacology and Biological Sciences**).

MEMBER OF BOARD OF STUDIES (UG/PG) AND ADVISORY COMMITTEE FOR BIOTECHNOLOGY

- Rajiv Gandhi Centre for Biotechnology, RTM University, Nagpur.
- Govt. Nagarjuna PG Autonomous College of Science, Raipur.

- Kalyan Autonomous PG College, Bhilai.
- Govt. Digvijay Autonomous PG College, Rajnandgaon.
- As member of Advisory Committee for Development of Centre
Rajiv Gandhi Biotechnology Centre
DBT Sponsored
RTM University, Nagpur
Nagpur.

RESOURCE PERSON

- District Level Inspire Award for Science Programme
Organized by DST and District Education Department sponsored programme.
Date – 16.08.13
- Guest Lecture
At Govt. College, Chhuikhadan, Rajnandgaon
Date – 29.08.13
- Resource Person for Guest Lecture
At Bhilai Mahila Mahavidyalaya in Inaugural Ceremony of Pioneer's Association
Date – 04.09.13
- Resource Person for Guest Lecture
At Govt. Shivnath Science College, Rajnandgaon
Date – 07.09.13
- Resource Person for Guest Lecture
At Botanical association Ceremony of Bhilai Mahila Mahavidyalaya
Date – 07.09.13
- Resource person in workshop on Bio-medical Science.
Organized by Maitri College of Dentistry and Research, Anjora, Durg
Date – 13.04.14
- Resource Person for Guest Lecture
At Govt. Digvijay College, Rajnandgaon
Date – 08.03.14

- Resource Person for Guest Lecture
At Bhilai Mahila Mahavidyalaya in Pioneer's Association of Biotechnology
Date – 11.11.14
- Resource Person for Guest Lecture
At Govt. Digvijay College, Rajnandgaon
Date – 12.09.14
- Resource Person in Conference
At O.P.S. Mahavidyalaya, Hindole road, Odisha
Date – 20.12.14
- Resource Person in National Science Day
At Govt. D.T. College, Utai
Date – 04.03.15
- Resource Person in 12th Plan of UGC Programme
At Govt. D.T. College, Utai
Date – 23.09.16
- Acted as member of Jury
In DST and District Education Department sponsored Inspire Programme
Date – 12.09.16

RESEARCH PROJECT :

- (i) Minor Research Projects of UGC – **Two completed.**
- (ii) Major Research Project of UGC – **Completed**
(Ref. F. No. 32-493/2006 (SR) 28 Feb 2007.)

(Project cost – Rs. 10 Lakhs).
- (iii) Major Research Project of DST – **Completed**
(Ref. SSD/SS/025/2006/Sept. 20, 2006 with Woman Scientist of DST).
(Project cost – Rs. 10 Lakhs)
- (iv) One Major Research Project of C.G. State Medicinal Plant Board, Raipur
- **Ongoing**

Title of project- *Isolation and Characterization of Biomolecules of Pharmaceutical, Cosmetic and Nutritional Importance from Native Plants of Chhattisgarh State.*

(Project cost - Rs. 1,30,44000=00)

(v) Research Project of Chhattisgarh Council of Science and Technology, on Evaluation of Antioxidant Properties of Some Medicinal Plants on Lymphocytes of *Oryctolagus cuniculus*.

(Project cost – Rs 500,00=00) - **Completed**

(vi) Research Project of DST- Under SoRF Scheme (WOS-B) on Study of Genetic Polymorphism of Chemokines Receptors for the HIV-1 Infection in Some Tribal Population of Chhattisgarh, India

(Project cost – Rs 325600=00) - **Completed**

(vii) Research Project of DST- Under SoRF Scheme for Women Scientists & Technologists under the Programme ‘Disha’, on “A Study on the prevalence of human parvovirus B19 from Sickle Cell Anemia affected population of tribal area of Rajnandgaon district of Chhattisgarh”.

(Project cost – Rs 1744000 =00) – **Ongoing**

(viii) Research Project of DST – “Study of Erythrocyte Disorder Among Scheduled Caste and Scheduled Tribes population of Kabirdham District of Chhattisgarh”

(Project Cost - Rs 20,00,000=00) - **Ongoing**

PRESENT FIELD OF RESEARCH

- Biomolecules from natural resources
- Haemoglobinopathesis
- Toxicology
- Biodiversity

ABROAD VISIT

- Visited Qingdao, **China** on invitation of **Chinese Academy of Science** for three weeks in September 2008.
- Participated and Presented Paper in 15th Human Genomic Meeting and 4th Pan Arab Conference organized by Human Genome Group at **Dubai (UAE)** between March, 14-17 2011.
- Participated and Presented Paper in 3rd International Conference on Medicinal Plants and Herbal Products at University of Colombo, Colombo (Sri Lanka) from 19-21 Dec. 2011.
- Visited Beijing, China to participate in “5th International Society of Zoological Science”, at Institute of Zoology, Chinese Academy of Science, between 25th to 28th July, 2013 and participated as Institutional Member.

ADMINISTRATIVE PROFILE

- Teaching (UG/PG) & Research Experience – 23 years.
- Established Department of Biotechnology with UG/PG/Ph.D. programmes in session 2004-05 and since then acting as Head of the Department.
- Established Post Graduate Diploma in Clinical Pathology and Diagnostic Technology and acted as Course Coordinator for 5 years.
- Acting as Programme Coordinator for STAR COLLEGE Programme of Department of Biotechnology, Govt. of India, at Govt. V.Y.T.PG. Autonomous College, Durg, since 3 years. This is only programme of DBT in Chhattisgarh state.
- Acting as Nodal Officer for “All India Survey on Higher Education” at Govt. V.Y.T.PG. Autonomous College, Durg, since 5 years.