



ANIL KUMAR

PROFESSOR
DEPARTMENT OF BIOTECHNOLOGY/ZOOLOGY
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TEACHING AND ADMINISTRATIVE PROFILE

- Having experience in Undergraduate and Post Graduate teaching for more than 26 years.
- Established Department of Biotechnology with UG/PG/Ph.D. programs in session 2004-05 and since 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, India.
- Acting as Nodal Officer for “All India Survey on Higher Education” at Govt. V.Y.T.PG. Autonomous College, Durg, India.
- Acting as Nodal Officer for “Chhatra Jeevan Chakra” Programme of Department of Higher Education and CHIPS, Chhattisgarh, India.
- Acting as Chairman of the Board of Studies for Hemchand Yadav University, Durg, India.
- Acting as a member of the Academic Council of Hemchand Yadav University, Durg, India.
- Member of The National Resource Centre for Education (NRCS) under Pandit Madan Mohan Malviya National Mission on Teachers and Teaching (PMMMNTT).

RESEARCH INTEREST

1. Presently I am working on problems related to Human Health, especially on the monogenetic disease. In Central India, a large section of people is suffering from Sickle

cell anaemia, Thalassemia, Glucose-6- phosphate dehydrogenase deficiency, and their interaction with malarial incidences. We have screened more than 10,000 people of various ethnic groups for monogenetic diseases and performed related studies. In this connection, we are engaged in the genetic profiling of various ethnic groups and their related pathogenicity.

2. Our second line of activity is scientific validation of traditional knowledge and under this programme, we are evaluating various secondary metabolites of medicinal plants used by traditional healers and performing their pharmacokinetics and pharmacodynamics for various health ailments by both *in vivo* and *in vitro* methods. We are also analysing related genomics of medicinal plants.

ACADEMIC PROFILE

- **M.Sc. Zoology** – (L.N. Mithila University, Darbhanga, India)
- **NET** (Council of Scientific and Industrial Research, India – University Grants Commission) – Life Science
- **Ph.D.** – (L.N. Mithila University, Darbhanga, India)
- **Orientation Course** (B.R. Ambedkar University, Muzaffarpur, India)
- **Refresher Course – I** (R.D. University, Jabalpur, India)
- **Refresher Course – II** (Nagpur University, Nagpur, India)
- **Refresher Course – III** (Nagpur University, Nagpur, India)

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)**
- **The International Research Leadership Award 2020- Sponsored By The International Research Council.**

Ph.D. AWARDED AND RUNNING

- A total of 16 Ph.D.'s have been awarded under my supervision.
- At present, 4 Research scholars are working on their Ph.D. programs.

RESEARCH PROJECTS

NATIONAL PROJECTS

- **Title – Study of Sickle Cell Disease and its genetic flow in some area of Rajnandgaon and Durg district of Chhattisgarh (India).**

Funding Agency – Department of Science and Technology, Govt. of India.

Budget – 10,000,00 =00

Women Scientist – Seema Tripathi.

Mentor – Dr. Anil Kumar

Reference – No. SSD/SS/025/2006, Dated : April 20, 2007.

Status- **Completed**

- **Title – Study of Sickle Cell Hemoglobinopathies in some area of Chhattisgarh.**

Funding Agency – University Grant Commission, New Delhi.

Budget – 1000000=00

Principal Investigator – Dr. Anil Kumar

Reference – F.No. 32-s493/2006 (SR), Dated : May 17, 2007

Status- **Completed**

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

Funding Agency – Chhattisgarh State Medicinal Plant Board (AYUSH, New Delhi)

Budget – 1,30,44,000.00

Principal Investigator – Dr. Anil Kumar

Reference – Res/ 1051, Dated : July 8, 2010

Status- **Completed**

- **Title – Evaluation of Antioxidant properties of some medicinal plants on Lymphocyte of *Oryctolagus cuniculus*.**

Funding Agency – Chhattisgarh Council of Science and Technology

Budget – 5,00,000.00

Principal Investigator – Dr. Anil Kumar

Reference – 2154/CCOST/MRP/2013, Dated : March 22, 2013.

Status- **Completed**

Title - “A Study on the prevalence of human parvovirus B19 from Sickle Cell Anemia affected population of tribal area of Rajnandgaon district of Chhattisgarh”.

Funding Agency – Department of Science & Technology

Budget – Rs 17,44,000 =00)

Woman Scientist “A” - Dr. Seema Tripathi

Mentor – Dr. Anil Kumar

Reference – DST/Disha/SoRF-PM/023/2013, Dated : September 25, 2014

Status- **Completed**

Title - “Study of Genetic Polymorphism of Chemokines Receptors for the HIV-1 Infection in Some Tribal Population of Chhattisgarh, India”.

Funding Agency – Department of Science & Technology

Budget – Rs 325600=00

Woman Scientist “B” – Ms. Swati Pandey

Mentor – Dr. Anil Kumar

Reference – NASI/SoRF-I/2014-15/38, Dated : December 26, 2014

Status- **Completed**

Title – “Study of Erythrocyte Disorder Among Scheduled Caste and Scheduled Tribes population of Kabirdham District of Chhattisgarh”

Funding Agency – Department of Science & Technology

Budget – Rs 20,00,000=00

Principal Investigator – Dr. Anil Kumar

Reference –Do. No. NRDMS/01/23/026, Dated – June 27, 2016

Status- **Completed**

Title- Study of Association of Oral Cancer with CYP1A1 and GSTM1 Genotype among Population of Chhattisgarh, India.

Funding Agency – Department of Health Research, Ministry of Health and Family Welfare, New Delhi, India

Budget – Rs 28,38,000=00

Principal Investigator – Dr. Madhu Pandey

Mentor- Dr. Anil Kumar

Reference – DHR/HRD/LTF1-02-2015-16, Dated – February, 2016

Status- **Completed**

Title- A genetic study of kidney epidemic among population of Supebeda village of Chhattisgarh, India.

Funding Agency – Research Promotion Programme, Govt. V.Y.T. PG. Auto. College, Durg.

Budget – Rs 5,00,000=00

Principal Investigator – Dr. Anil Kumar

Reference – **MJ/RP/01/BIT 19.03.2021**, Dated – 19.03.2021

Status- **Running**

INTERNATIONAL PROJECTS

Title- “STUDY OF MOSQUITO FECUNDITY AND MALARIAL INFESTATION AMONG POPULATION OF DANTEWADA (BASTAR), CHHATTISGARH”

Funding Agency – Department of Biotechnology, Government of India, New Delhi, India

Budget – Rs 8,00,000=00

Mentor- Dr. Anil Kumar

Reference – BT/IN/INDO-US/Foldscope/39/2015, dated March 20, 2018.

Status- **Completed**

Title- Genetic Profiling of Rare Diseases from Population of Chhattisgarh, India

Funding Agency – 3 billion Company, Seoul, Republic of South Korea.

Budget – Rs 2,25,00,000=00

Mentor- Dr. Anil Kumar

Reference – CEO/ 2021.08.23

Status- **Running** - **Further extended for more 100 subjects.**

PATENTS

S. No.	Applicant /Inventor Name	Title of the Patent	Patent Filed Date (DD/MM/YY YY)	Patent Publication Number / Patent Granted Number
1.	Dr. Anil Kumar	A process for developing a potent lead compound for drug development as antimicrobial and antioxidant	17-11-21	2021106365 (Australian Government)
2.	Dr. Anil Kumar	A process for HPTLC based quantification of andrographolide in <i>Andrographis Paniculate</i>	24-11-21	2021106073 (Australian Government)
3.	Dr. Anil Kumar	A method for studying phytochemical, antioxidant, and antimicrobial activities and HPTLC analysis for <i>A. Paniculata</i> and <i>C. rosea</i>	08-12-21	2021107020 (Australian Government)

ABROAD ACADEMIC VISIT

- Visited Qingdao, China at the invitation of the Chinese Academy of Science for three weeks in September 2008.
- Participated and Presented a Paper at the 15th Human Genomic Meeting and 4th Pan Arab Conference organized by Human Genome Group in 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 the Institute of Zoology, Chinese Academy of Science, between 25th to 28th July 2013 and participated as Institutional member.

PUBLICATIONS

S. No.	Name	No. of Publications	
		Books	Research Papers
1.	Dr. Anil Kumar	Chapter in Book – 10	106



ANIL KUMAR ✎

Govt. V.Y.T.PG Autonomous College

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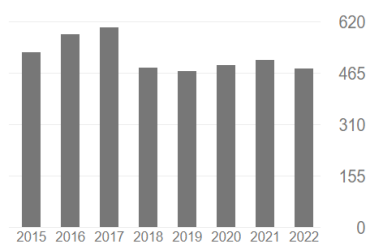
life science

FOLLOWING

<input type="checkbox"/>	TITLE	CITED BY	YEAR
<input type="checkbox"/>	Global, regional, and national incidence and mortality for HIV, tuberculosis, and malaria during 1990–2013: a systematic analysis for the Global Burden of Disease Study 2013 CJL Murray, KF Ortblad, C Guinovart, SS Lim, TM Wolock, DA Roberts, ... The Lancet 384 (9947), 1005-1070	1146	2014
<input type="checkbox"/>	Global, regional, and national levels of neonatal, infant, and under-5 mortality during 1990–2013: a systematic analysis for the Global Burden of Disease Study 2013 H Wang, CA Liddell, MM Coates, MD Mooney, CE Levitz, AE Schumacher, ... The Lancet 384 (9947), 957-979	908	2014

Cited by [VIEW ALL](#)

	All	Since 2017
Citations	6049	3036
h-index	26	19
i10-index	59	38



ON EDITORIAL BOARD/AS REVIEWER

- World Journal of Medicine and Medical Science Research.
- Scientific Research and Essays.
- 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.
- Biogloblia.
- GENE
- Journal of Applied Research on Medicinal And Aromatic Plants.
- International Journal of Phytoremediation.

- Journal of Pharmaceutical Research International.
- Asian Journal of Paediatric Research.
- Asian Journal of Research in Infectious Diseases.
- Journal of Advances in Medicine and Medical Reports.
- International Journal of Research and Reports in Hematology.
- 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**).