



# Kirori Mal College

(University of Delhi)

University of Delhi, Delhi-110007

(Phone No. - 011-7121 9084 : Email - principal@kmc.du.ac.in)



Print Date : 03-04-2026

## 1. Personal Profile

Title: **Dr.** First Name: **ARUN** Last Name: **KUMAR**



Designation: **ASSISTANT PROFESSOR** Mobile No. -----

Phone No. (Office) ----- Phone No. (Residence): -----

Email: [arunkumar@kmc.du.ac.in](mailto:arunkumar@kmc.du.ac.in) Webpage: -----

Facebook: ----- Twitter: -----

LinkedIn: <https://in.linkedin.com/in/arun-kumar-55880169> Instagram: -----

Youtube: ----- Research Gate Link: <https://www.researchgate.net/profile/Arun-Kumar-253>

Google Scholar Link: <https://scholar.google.com/citations?user=cGB7EHQAAAAJ&hl=en>

Address: **DEPARTMENT OF ZOOLOGY, 2ND FLOOR, SCIENCE BLOCK, KIRORI MAL COLLEGE, UNIVERSITY OF DELHI, NORTH CAMPUS, DELHI 110007.**

## 2. Educational Qualifications

Degree/ Certification	Institution	Year
PhD	INMAS-DRDO Ministry of Defence Delhi	2019
M Phil Life Sciences	Bharathiar University	2015

## 3. Career Profile & Administrative Assignments

Category	Role/ Designation	Department/ Committee	Date From - To	Remarks
CAREER PROFILE	ASSISTANT PROFESSOR	ZOOLOGY KIRORI MAL COLLEGE, DELHI	22.Nov.2022 - Till date	Permanent Assistant Professor( Teaching and Research)
CAREER PROFILE	OTHERS	OTHERS All India Institute of Medical Sciences (AIIMS), Delhi	03.Aug.2021 - 21.Nov.2022	SRO/Scientist
CAREER PROFILE	POST DOCTORATE	OTHERS Central Research Institute of Homeopathy, Ministry of AYUSH, Govt. of India Noida -NCR	27.Jan.2018 - 30.Sep.2020	Scientist

CAREER PROFILE	POST DOCTORATE	OTHERS Defence Research and Development Orgainsation- Institute of Nuclear Medicine and Allied Sciences (DRDO-INMAS), Min. of Defence, Delhi	01.Oct.2020 - 22.Aug.2022	Research of Nuclear Medicines and Radiation consequences.
ADMINISTRATIVE ASSIGNMENTS	MEMBER	RESEARCH COUNCIL KIRORI MAL COLLEGE, DELHI	13.Jun.2023 - Till date	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	GYM COMMITTEE KIRORI MAL COLLEGE, DELHI	18.May.2023 - Till date	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	CANTEEN COMMITTEE KIRORI MAL COLLEGE, DELHI	18.May.2023 - 28.Jan.2025	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	LA-VOICE KIRORI MAL COLLEGE, DELHI	18.May.2023 - Till date	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	EQUAL OPPORTUNITY CELL KIRORI MAL COLLEGE, DELHI	04.Dec.2023 - Till date	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	OTHERS Guru Gobind Singh Indraprastha University	01.Dec.2024 - Till date	Institutional Animal Ethics Committee (IAEC), Role: Scientist from Other Institutions
ADMINISTRATIVE ASSIGNMENTS	MEMBER	OTHERS Kirori Mal College, University of Delhi	15.Dec.2023 - 27.Jan.2025	Member Secretary; Institutional Animal Ethic Committee (IAEC), Kirori Mal College, Delhi.
ADMINISTRATIVE ASSIGNMENTS	MEMBER	CDRT - CENTRE FOR DISABILITY RESEARCH AND TRAINING Kirori Mal College, University of Delhi	28.Nov.2023 - Till date	Faculty Member (Biological Sciences)
ADMINISTRATIVE ASSIGNMENTS	MEMBER	OTHERS National Institute of Health and Family Welfare (NIHFW), New Delhi	24.Jan.2025 - Till date	Institutional Animal Ethics Committee (IAEC), Role: Socially Aware Nominee
ADMINISTRATIVE ASSIGNMENTS	OTHERS	ZOOLOGY Kirori Mal College, University of Delhi	01.Aug.2024 - 27.Jan.2025	Staff Advisor, Dept. of Zoology

#### 4. Other Profiles

##### Other Profile Name/ Description

##### AWARDS AND DISTINCTIONS

**National Award:** Department of Science & Technology, Govt. of India, awarded the "**AWSAR Award**" for best innovative and articulated

##### AWARDS AND DISTINCTIONS

"**Young Scientist Award**", by Indian Society of Radiation Biology at International Conference ICRB-2016.

**SUBJECTS TAUGHT**

- i. Biochemistry of Metabolic Processes (Zoo-DSC-8), UPC: 2232012302, B.Sc. Zoo (H), Sem-III (Theory + Practicals)
- ii. Immunology (Zoo-DSE-8), UPC:32237909, B.Sc. Zoo (H), Sem-V (Theory + Practicals)
- iii. Biochemistry: Basic concepts of metabolism (Zoo-LS-DSC-09), UPC: 2232522301, BSc.(P) Life Sciences, Sem-III (Theory + Practical)
- iv. Aquatic Biology UPC: 2233012001, Bsc. Zoo and LS, Sem -III (Theory+Practical)
- v. Fundamentals of Biomolecules (Zoo-DSC-5), UPC: 2232011202, B.Sc. Zoo (H), Sem-III (Theory + Practicals)
- vi. Fundamentals of Human Physiology (Zoo-LS-DSC-12), UPC: , BSc.(P) Life Sciences, Sem-IV (Theory + Practical).
- vii. Immunology UPC: 42237904, BSc.(P) Life Sciences, Sem-VI (Theory + Practical)
- viii. Sports for Life-1 (VAC) UPC: , BSc/BA/Bcom Sem-II (Theory + Practical)
- ix. Wildlife Conservation and Management (Zoo-DSE-4), UPC:2233012004, B.Sc. Zoo (H), Sem-III (Theory + Practical).

**SUBJECTS TAUGHT**

- i. Biochemistry of Metabolic Processes (Zoo-DSC-8), UPC: 2232012302, B.Sc. Zoo (H), Sem-III (Theory + Practicals)
- ii. Biochemistry: Basic concepts of metabolism (Zoo-LS-DSC-09), UPC: 2232522301, BSc.(P) Life Sciences, Sem-III (Theory + Practical)
- iii. Integrative Biology and Bioinformatics (Zoo-DSE- 10), UPC: , B.Sc. Zoo (H), Sem-V (Theory + Practicals)
- iv. Principle of Immunology (Zoo-DSE-4), UPC: 2232013501, B.Sc. Zoo (H), Sem-V (Theory + Practicals)
- v. Aquatic Biology (Zoo-DSE-4), UPC: 2233012001, BSc. LS (H), Sem-III (Theory + Practicals)

**5. Research Guidance**

Year	Guide For	Title of the Dissertation/ Thesis	Scholar Name	Status
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**6. Research Projects**

Year	Title of Project	Sponsorship Agency	Duration	Amount Sanctioned	Date of Sanction
2024	Exploring the Role of Bahunia variagata in Polycystic Ovary Syndrome (PCOS) Management: A Network Pharmacological, Pharmacotranscriptomics, and Molecular Dynamics Investigation"	Kirori Mal College, University of Delhi	01 year		17.May.2024

**7. Publications**

<b>Category</b>	<b>Publication Name</b>	<b>Title</b>	<b>Name of Author</b>	<b>Reference Link/ DOI Link</b>
JOURNAL PAPER (International)	Role of melatonin mediated G-CSF induction in hematopoietic system of gamma-irradiated mice.	Life Science	Kumar A, Choudhary S, Kumar S, Adhikari JS, Kapoor S, Chaudhury NK (First Author)	<a href="https://doi.org/10.1016/j.lfs.2021.120190">https://doi.org/10.1016/j.lfs.2021.120190</a>
JOURNAL PAPER (International)	Sesamol ameliorates radiation-induced DNA damage in hematopoietic system of whole body $\gamma$ -irradiated mice	Environmental and Molecular Mutagenesis	1. Kumar A, Choudhary S, Adhikari JS, Chaudhury NK (First Author)	10.1002/em.22118
JOURNAL PAPER (International)	Current insights into epigenetics, noncoding RNA interactome and clinical pharmacokinetics of dietary polyphenols in cancer chemoprevention	Crit Rev Food Sci Nutr	Shah D, Gandhi M, Kumar A, Cruz-Martins N, Sharma R, Nair S (Joint Author)	<a href="https://doi.org/10.1080/10408398.2021.1968786">https://doi.org/10.1080/10408398.2021.1968786</a>
JOURNAL PAPER (International)	Quantitative Assessment of Antioxidant Potential of Selected Homeopathic Preparations in Clinical Practice.	Drug Metabolism and Personalized Therapy	Kumar A, Sharma M, Prajapati S, Gupta P et al (First Author)	<a href="https://doi.org/10.1515/dmpt-2022-0169">https://doi.org/10.1515/dmpt-2022-0169</a>
JOURNAL PAPER (International)	PK-PD based optimal dose and time for orally administered supra-pharmacological dose of melatonin to prevent radiation-induced mortality in mice	Life Science	Choudhary S, Kumar A, Saha N, Chaudhury NK (Joint Author)	<a href="https://doi.org/10.1016/j.lfs.2019.01.007">https://doi.org/10.1016/j.lfs.2019.01.007</a>

JOURNAL PAPER (International)	Sesamol attenuates genotoxicity in bone marrow cells of whole-body $\gamma$ -irradiated mice	Mutagenesis	Kumar A, Selvan TG, Tripathi AM, Choudhary S, Khan S, Adhikari JS, Chaudhury NK (First Author)	<a href="https://doi.org/10.1093/mutage/gev026">https://doi.org/10.1093/mutage/gev026</a>
JOURNAL PAPER (International)	Deciphering the impact and mechanism of Trikatu, a spices-based formulation on alcoholic liver disease employing network pharmacology analysis and in vivo validation.	Frontier in Nutrition	Sharma Ruchi, Jadhav Mangala, Choudhary Neha, Kumar Arun, et al (Joint Author)	<a href="https://doi.org/10.3389/fnut.2022.1063118">https://doi.org/10.3389/fnut.2022.1063118</a>
JOURNAL PAPER (International)	Protective effect of sesamol against Co60 $\gamma$ -ray-induced hematopoietic and gastrointestinal injury in C57BL/6 male mice	Free Radical Research	Khan S, Kumar A, Adhikari JS, Rizvi MA, Chaudhury NK, (Joint Author)	<a href="https://doi.org/10.3109/10715762.2015.1071485">https://doi.org/10.3109/10715762.2015.1071485</a>
JOURNAL PAPER (International)	Sulforaphane Mitigates Genotoxicity Induced by Radiation and Anticancer Drugs in Human Lymphocytes.	Mutation Research genetic toxicology	Katoch O, Kumar A, Adhikari JS, Dwarakanath BS, Agrawal PK (Joint Author)	<a href="https://doi.org/10.1016/j.mrgentox.2013.08.009">https://doi.org/10.1016/j.mrgentox.2013.08.009</a>
JOURNAL PAPER (International)	Mean Frequency and Relative Fluorescence Intensity Measurement of $\gamma$ -H2AX Foci Dose Response in PBL Exposed to $\gamma$ -irradiation: An Inter- and Intra-Laboratory Comparison and its Relevance for Radiation Triage	cytometry A	Venkateswarlu R, Selvan TG, Kumar A, Alok A, Karthik K, Kalra N, Vijayalakshmi J, Solomon FD, Chaudhury NK, Venkatachalam P (Joint Author)	<a href="https://doi.org/10.1002/cyto.a.22729">https://doi.org/10.1002/cyto.a.22729</a>

JOURNAL PAPER (International)	Deciphering the multi-scale mechanisms of <i>Tephrosia purpurea</i> against polycystic ovarian syndrome (PCOS) and its major psychiatric comorbidities: studies from network pharmacological perspective	Gene	Choudhary N, Choudhary S, Kumar A, Singh V (First Author)	<a href="https://doi.org/10.1016/j.gene.2020.145385">https://doi.org/10.1016/j.gene.2020.145385</a>
JOURNAL PAPER (International)	Evaluation of sesamol-induced histopathological, biochemical, hematological and genomic alteration after acute oral toxicity in female C57BL/6 mice	Toxicology Reports	Khan S, Choudhary S, Kumar A, Tripathi AM, Alok A, Adhikari JS, Rizvi MA, Chaudhury NK (Joint Author)	<a href="https://doi.org/10.1016/j.toxrep.2016.03.005">https://doi.org/10.1016/j.toxrep.2016.03.005</a>
JOURNAL PAPER (International)	Anastrozole-mediated modulation of mitochondrial activity by inhibition of mitochondrial permeability transition pore opening: an initial perspective	Journal of Biomolecular Structure and Dynamics	Kumar S, Choudhary N, Faruq M, Kumar A, Saran RK, Indercanti PK, et al. (Joint Author)	<a href="https://doi.org/10.1080/07391102.2023.2176927">https://doi.org/10.1080/07391102.2023.2176927</a>
JOURNAL PAPER (International)	Antimicrobial activity of different homeopathic drugs and their potencies against 'Aspergillus niger' In vitro	Indian Journal of Research in Homoeopathy	Prajapati S, Sharma M, Kumar A, Gupta P, et al. (Joint Author)	<a href="https://doi.org/10.4103/ijrh.ijrh_46_18">https://doi.org/10.4103/ijrh.ijrh_46_18</a>
JOURNAL PAPER (International)	An update on novel COVID-19 pandemic: a battle between humans and virus.	European Review for Medical and Pharmacological Sciences	Prajapati S, Sharma M, Kumar A, Gupta P, et al. (Joint Author)	<a href="https://doi.org/10.26355/eurrev_202005_21377">https://doi.org/10.26355/eurrev_202005_21377</a>
JOURNAL PAPER (International)	Morphological Characterization of Homeopathic Medicinal Plants and Evaluation of their Biological Effect Against the <i>Microsporum canis</i> .	International Journal of Pharmacognosy and Phytochemical Research	Prajapati S, Singh S, Sharma M, Kumar A, Verma D et al. (Joint Author)	<a href="https://doi.org/10.25258/phyto.11.3.5">https://doi.org/10.25258/phyto.11.3.5</a>

JOURNAL PAPER (International)	Self-Protection of Medical Workers in Traditional Hospitals and Clinics Against SARS-CoV-2 Infection	Coronaviruses	17. Narshima GV, Kumar A, Sharma M, Gupta P et al (Joint Author)	<a href="http://dx.doi.org/10.2174/2666796701999200729153637">http://dx.doi.org/10.2174/2666796701999200729153637</a>
JOURNAL PAPER (International)	AYUSH Preparations as Immunity Boosters in the Management of SARS CoV-2: A Review.	Current Traditional Medicine	Prajapati S, Sharma M, Kumar A, Gupta P, et al. (Joint Author)	<a href="http://dx.doi.org/10.2174/2215083806999201202151923">http://dx.doi.org/10.2174/2215083806999201202151923</a>
JOURNAL PAPER (International)	Safety Evaluation of Syzygium jambolanum on the Development of Zebrafish Embryos.	Indian Journal of Pharmaceutical Education and Research	Sharma M, Prajapati S, Kumar A, Gupta P, et al. (Joint Author)	
JOURNAL PAPER (International)	Adjuvant approach to mitigate the adverse effects of cancer treatments using Homeopathic medicines.	Current Cancer therapy reviews	Kumar A, Sharma M, Prajapati S, Gupta P (First Author)	<a href="http://dx.doi.org/10.2174/1573394718666220512163517">http://dx.doi.org/10.2174/1573394718666220512163517</a>
JOURNAL PAPER (International)	Effect of Acute Exposure of Belladonna Mother Tincture on Zebrafish Embryonic Development.	Indian Journal of Pharmaceutical Education and Research	Sharma M, Prajapati S, Kumar A, Gupta P, et al. (Joint Author)	<a href="http://dx.doi.org/10.36468/pharmaceutical-sciences.847">http://dx.doi.org/10.36468/pharmaceutical-sciences.847</a>
JOURNAL PAPER (International)	Indigenous Therapeutics of Alzheimer: A Review of Ayurvedic Herbs from its Ethnobotany to Phytotherapy.	Letters in Applied Nano BioScience	Sharma D, Tyagi S, Dan S, Singh M, Kumar A* (Corresponding Author)	<a href="http://dx.doi.org/10.33263/LIANBS114.41784191">http://dx.doi.org/10.33263/LIANBS114.41784191</a>
JOURNAL PAPER (International)	Evaluation of therapeutic potential of selected plant-derived homeopathic preparations for their repurposing against cervical cancer	Homeopathy	Singh T, Aggarwal, N, Thakur K, Chhokar A, Yadav J, Tripathi T, Bhat A, Jadli M, Kumar A., Gupta P, Khurana A, & Bharti A (Joint Author)	<a href="https://doi.org/10.1055/s-0042-1756436">https://doi.org/10.1055/s-0042-1756436</a>

RESEARCH PAPERS (International)	Exploring the therapeutic potential of Terminalia chebula against systemic candidiasis: An in vitro, in vivo, and in silico study	Fitoterapia	Raj Kumar Regar, Mahima Sharma, Sangita Behera, Pankaj Gupta, Roshan Lal, Suneel Prajapati, Arun Kumar, Godlaveti Vijay Narasimha Kumar, Vara Prasad Saka, Anurag Agrawal, Digvijay Verma, Subhash Kaushik (Joint Author)	<a href="https://www.sciencedirect.com/science/article/pii/S0367326X2500">https://www.sciencedirect.com/science/article/pii/S0367326X2500</a>
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## 8. Books

Category	Book Name	Title	Name of Author	ISSN/ ISBN Number
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## 9. Faculty Achievements

Year	Category of Achievement	Role	National/ International etc.	Name	Date From-To
2018	NATIONAL/ INTERNATIONAL FELLOWSHIPS (IOE, FRSC, etc.) ATTENDED	POST DOCTORATE	National	Post Doctoral RAship	01.Oct.2020 - 22.Aug.2022
2023	FACULTY INDUCTION PROGRAM ATTENDED	ASSISTANT PROFESSOR	National	4-Week Faculty Induction/Orientation Programme for "Faculty in Universities/Colleges/Institutes of Higher Education"	22.Jul.2023 - 20.Aug.2023
2023	WORKSHOP/ SEMINAR/ CONFERENCE ATTENDED	ORGANIZER	National	Two day Workshop on Decoding Cellular Complexity: Network Biology Approach to Discover Disease Related Key Regulatory Genes	06.Nov.2023 - 07.Nov.2023
2023	WORKSHOP/ SEMINAR/ CONFERENCE ATTENDED	SUBJECT EXPERT	National	A three-day sensitisation workshop on Urban Biodiversity and Ecosystem Services	13.Dec.2023 - 15.Dec.2023

2024	INVITED LECTURES/ RESOURCE PERSON/ PAPER PRESENTATIONS ATTENDED	LECTURER	International	8th Annual Meeting of International Association of Zoologists & 5th International Conference on Recent Trends in Life Sciences and Biotechnology	12.Dec.2024 - 14.Dec.2024
2024	INVITED LECTURES/ RESOURCE PERSON/ PAPER PRESENTATIONS ATTENDED	LECTURER	National	two-day national conference on "Sustainable Chemistry--A Step Towards Steady Environment and Technical Terminology"	22.Nov.2024 - 23.Nov.2024
2024	WORKSHOP/ SEMINAR/ CONFERENCE ATTENDED	RESOURCE PERSON	International	International Conference on "Pharma Technology & Translational Development in Chem-Biology Research: Traditional to Biopharmaceuticals, 2024	20.Mar.2024 - 21.Mar.2024
2024	ONLINE CERTIFICATE COURSE/ TRAINING PROGRAMS ATTENDED	PARTICIPANT	National	Regional Training for Nominees of CCSEA	20.Jun.2024 - 21.Jun.2024
2025	SEMINAR ATTENDED	PARTICIPANT	International	Indo-US-SPARC Seminar Series: "Biomarkers of Radiation Exposure: Clinical and Dosimetry applications"	29.Oct.2025 - 29.Oct.2025
2025	ONLINE CERTIFICATE COURSE/ TRAINING PROGRAMS ATTENDED	PARTICIPANT	National	Training programme on "Industrial Waste Circularity: A Framework for Waste Management & Resource Efficiency"	10.Jun.2025 - 13.Jun.2025

**Dr. ARUN KUMAR**