



Kirori Mal College

(University of Delhi)

University of Delhi, Delhi-110007

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



Print Date : 15-04-2026

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 Webpage: -----

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

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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 |

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|----------------------------|----------------|--|---------------------------|---|
| 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. Zoo (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

| Category | Publication Name | Title | Name of Author | Reference Link/ DOI Link |
|-------------------------------|--|--|---|---|
| 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) | https://doi.org/10.1016/j.lfs.2021.120190 |
| JOURNAL PAPER (International) | Sesamol ameliorates radiation-induced DNA damage in hematopoietic system of whole body γ -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) | https://doi.org/10.1080/10408398.2021.1968786 |
| 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) | https://doi.org/10.1515/dmpt-2022-0169 |
| 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) | https://doi.org/10.1016/j.lfs.2019.01.007 |

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| JOURNAL PAPER (International) | Sesamol attenuates genotoxicity in bone marrow cells of whole-body γ -irradiated mice | Mutagenesis | Kumar A, Selvan TG, Tripathi AM, Choudhary S, Khan S, Adhikari JS, Chaudhury NK (First Author) | https://doi.org/10.1093/mutage/gev026 |
| 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) | https://doi.org/10.3389/fnut.2022.1063118 |
| JOURNAL PAPER (International) | Protective effect of sesamol against Co60 γ -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) | https://doi.org/10.3109/10715762.2015.1071485 |
| 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) | https://doi.org/10.1016/j.mrgentox.2013.08.009 |
| JOURNAL PAPER (International) | Mean Frequency and Relative Fluorescence Intensity Measurement of γ -H2AX Foci Dose Response in PBL Exposed to γ -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) | https://doi.org/10.1002/cyto.a.22729 |

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| 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) | https://doi.org/10.1016/j.gene.2020.145385 |
| 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) | https://doi.org/10.1016/j.toxrep.2016.03.005 |
| 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) | https://doi.org/10.1080/07391102.2023.2176927 |
| 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) | https://doi.org/10.4103/ijrh.ijrh_46_18 |
| 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) | https://doi.org/10.26355/eurrev_202005_21377 |
| 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) | https://doi.org/10.25258/phyto.11.3.5 |

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| 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) | http://dx.doi.org/10.2174/2666796701999200729153637 |
| 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) | http://dx.doi.org/10.2174/2215083806999201202151923 |
| 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) | http://dx.doi.org/10.2174/1573394718666220512163517 |
| 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) | http://dx.doi.org/10.36468/pharmaceutical-sciences.847 |
| 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) | http://dx.doi.org/10.33263/LIANBS114.41784191 |
| 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) | https://doi.org/10.1055/s-0042-1756436 |

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| 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) | https://www.sciencedirect.com/science/article/pii/S0367326X2500 |
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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 |

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| 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" | 20.Jan.2025 - 21.Jan.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