

Kumaun University, Nainital Curriculum Vitae

Name : Deepak Kumar Arya, Ph.D.
 Designation : Assistant Professor
 Department : Zoology Department
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Educational Qualification

Degree	University	Subjects	Year
B. Sc.	Kumaun University, Nainital	Zoology, Botany & Chemistry	2003
M.Sc.	G. B. P. U. A. & T., Pantnagar	Microbiology	2005
Ph. D.	J. N. U., New Delhi	Life Science	2012

Work Experience

Position	Department	University/Organization	Year
Assistant Professor (Guest & Ad-Hoc)	Microbiology	Delhi University, Delhi	2012 - 2013
Assistant Professor (Permanent)	Zoology	Kumaun University, Nainital	2013 - Continuing

Administrative Responsibilities

Position	Nature of responsibility	University/Organization	Year
Assistant Proctor	Offering guidance and enforcing discipline	Kumaun University, Nainital	2017 - 2020
Assistant Controller of Examination	University examinations	Kumaun University, Nainital	2017 - 2021
NSS Program Officer	NSS related activities	Kumaun University, Nainital	2022 - Continuing
Assistant Director, Research & Development Cell.	Coordination of research promotion and guidance	Kumaun University, Nainital	2023 - Continuing

Research Interests

My research interest includes microbiology, epidemiology / public health, host-pathogen interactions, microbial biotechnology, antimicrobial drug synthesis (nanotechnology), vector biology.

Publications

Research Papers

Authors name	Title of the paper	Journal, vol, page no	Year
P Prasad, S Lata, SK Gupta, P Kumar, R Saxena, DK Arya, H Singh	Aedes aegypti container preference for oviposition and its possible implications for dengue vector surveillance in Delhi, India	Epidemiology and Health, 45, e2023073	2023
P Prasad, S Lata, D Kumar, SK Gupta, R Saxena, DK Arya, H Singh	Susceptibility status of Aedes aegypti (Diptera: Culicidae) against insecticides of public health use in Delhi and NCR region, India	Journal of Vector Borne Diseases, 60 (3), 300-306	2023
S Dewali,.....DK Arya, SPS Bisht, N Sharma	Genetics and Therapies of Mastitis in Common Milch Animals: A Review	Acta Scientific Veterinary Sciences, 4 (8), 21-31	2022
DK Arya	Assessment of potential health risk associated with antibiotic resistant <i>Escherichia coli</i> isolates recovered from Lake Nainital (Uttarakhand), India	Biochemical and Cellular Archives, 22 (1), 1477-1484	2022
N Giri, A Lodhi, Sapna, N Sharma, DK Arya	Seasonal Fluctuation of <i>Escherichia coli</i> in Nainital Lake, Uttarakhand State, India	International Journal of Zoological Investigations, 8 (1): 249-256	2022
DK Arya	Understanding the role of climatic factors in Aedes mosquito development : A systemic review	Journal of Experimental Zoology, India, 25 (1), 637-640	2022
A Lodhi, N Giri, DS Bisht, P Prasad, V Pande, DK Arya	Zinc oxide nanoparticles biosynthesized using <i>Lactobacillus</i> isolate exhibiting promising in vitro antibacterial activity against antibiotic resistant diarrheagenic <i>Escherichia coli</i> isolates	Biochemical and Cellular Archives, 22 (1), 1469-1476,	2022
A Lodhi, N Giri, DS Bisht, S Bhoj, V Pande, DK Arya	Eco-friendly synthesis of zinc oxide nanoparticles and their antibacterial activity: A review	Journal of Experimental Zoology, India, 24 (2), 1029-1037	2021
N Giri, A Lodhi, DS Bisht, S Bhoj, DK Arya	Antibiotic Resistance of <i>Escherichia coli</i> Isolated from Lake Nainital, Uttarakhand State, India	Journal of Mountain Research, 16 (1), 127-136	2021
DS Bisht, N Giri, A Lodhi, DK Arya	Coliform contamination as an indicator for potability of different drinking water sources in	Advances in Bioresearch, 10 (5), 60-65	2019

	and around the Nainital City, Western Himalaya, Uttarakhand		
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a) Patents (start from recent publications)

Authors name	Title of the patent	Patent no (Granted or filed)	Year

b) Books (start from recent publications)

Authors name	Title of the book	Publisher	ISBN	Year

c) Book chapters

Authors name	Title of the book/Book Chapter	Publisher	ISBN	Year
KK Mahto, P Prasad, M Kumar, I Ali, V Vohra, DK Arya	Leishmania Parasites - Epidemiology, Immunopathology and Hosts / Visceral Leishmaniasis: An Overview and Integrated Analysis of the Current Status, Geographical Distribution and Its Transmission.	IntechOpen, London, UK.	DOI: 10.5772/intechopen.110567	2023

d) Conference Publications/Proceedings

Authors name	Title of the paper	Conference name	Year
P Prasad, DK Arya	Effect of covid-19 on agriculture sector and a step towards overcoming the crisis: A review	Effect of COVID-19 Pandemic on Agriculture and Allied Sciences	2020
N Giri, A Lodhi, DS Bisht, DK Arya	Role of water, sanitation and hygiene measures in nCov2019-outbreak	Effect of COVID-19 Pandemic on Agriculture and Allied Sciences	2020
DS Bisht, N Giri, A Lodhi, DK Arya	Incidence of pathogenic factors and their possible association with drug resistance of different water sources in and around the city Nainital	Effect of COVID-19 Pandemic on Agriculture and Allied Sciences	2020
A Lodhi, N Giri, DS Bisht, DK Arya	The role of nanoparticles in treating and diagnosing the outbreak covid-19	Effect of COVID-19 Pandemic on Agriculture and Allied Sciences	2020

Projects

Title of the project	Funding agency	Amount (Rs)	Year
Occurrence, antibiotic resistance and Molecular characterization of virulence factors of <i>Escherichia coli</i> isolates in Lake Nainital	UGC-BSR	600,000/-	2015 - 2017
Preparation and evaluation of polyherbal nanoemulsion for management of psoriasis	Kumaun University, Nainital	200,000/-	2024 - 2025

Teaching details

Name of the course/paper	Department	University	Year
UG-Biotechnology	Zoology Department	Kumaun University, Nainital	
UG-Biochemistry			Since 2013
UG-Environmental Science			Since 2013
UG-Environmental Biology			Since 2019
UG-Chordates			Since 2016
UG-Non-Chordates			Since 2019
UG- Cell Biology			2013 – 2016
UG-Genetics			Since 2013
UG-Toxicology			Since 2013
PG-Biochemistry			Since 2013
PG-Biotechnology			Since 2013
PG- Evolution			2013-2020
PG-Microbiology			Since 2019
PG-Animal Physiology (Selected Topics)			2013-2019
PG-Applied Entomology (Selected Topics),			2013 - 2019
PG-Applied Ichthyology (Selected Topics),	Since 2019		
Bioinformatics (Selected Topics)	Statistics Department	Kumaun University, Nainital	2015-2016
UG-Agricultural Microbiology	Agriculture Department/Faculty	Kumaun University, Nainital	Since 2020
UG-NSS-Theory	NSS/Co-curricular Activities	Kumaun University, Nainital	Since 2022

Professional Memberships

Organization	Position	Year
The Indian Science Congress Association (ISCA)	Life Member	Since 2019
Indian Public Health Association (IPHA)	Life Member	Since 2021
The Association of Microbiologists of India	Life Member	Since 2023

Honours and Awards (add row if required)

Award	Awarding Organization	Year
Award of National Overseas Scholarship	MSJE, Govt. of India	2007

Conference Presentations (add row if required)

Title of presentation	Conference name	Name of the institution	Year
Artificial intelligence: To Combat Antimicrobial Resistance and Pathogenic Microorganisms	USERC-Two Days National Conference on The Role, Impact, Issues and Challenges of Artificial Intelligence: A Journey Towards Transforming the Society (March 30-31, 2024)	IPGGPG College, Haldawani (Uttarakhand Science, Education & Research Center-USERC)	2024
Relationship between environmental and clinical isolates of <i>E. coli</i>	International Conference on Emerging Trends in Microbiology (February 28-March 01, 2023)	MLK-PG, College, Balrampur (UP) / Microbiologists Society, India	2023
Antibiotic resistance and virulence genes of environmental and clinical isolates of <i>Escherichia coli</i>	Two Day International Conference on Science for survival: To explore the unexplored dimensions February 10-11, 2023)	Govt. College for Women, Udhampur (J&K)	2023
Prevalence of antibiotic resistant diarrheagenic <i>Escherichia coli</i> and in-vitro therapeutic potential of biosynthesized zinc oxide nanoparticles for intestinal health	Two Day International Conference on Ethnobiology: Present and Future Perspectives (November 25-26, 2022)	Govt. Degree College Billawar	2023
Evaluation of bacteriological quality of different water sources..... drug resistance in and around the city Nainital, Uttarakhand	ISCA - National Conference on Science & Technology: Rural Development (February 15-16, 2020)	Gurukul Kangri Vishwavidyalaya, Haridwar (The Indian Science Congress Association)	2020



Signature of the faculty member