



Kirori Mal College

(University of Delhi)

University of Delhi, Delhi-110007

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



Print Date : 15-02-2026

1. Personal Profile

Title: Dr. First Name: **AMIT** Last Name: **SINGH DHAULANIYA**

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

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

Email: amit.s@kmc.du.ac.in Webpage: -----



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

LinkedIn: <https://www.linkedin.com/in/dr-amitsdhaulaniya> Instagram: -----

Youtube: ----- Research Gate Link: <https://www.researchgate.net/profile/Amit-Dhaulaniya-2>

Google Scholar Link: https://scholar.google.com/citations?hl=en&user=kvRxR_4AAAAJ

Address: **DEPARTMENT OF ZOOLOGY, KIRORI MAL COLLEGE, UNIVERSITY OF DELHI, DELHI 110007**

2. Educational Qualifications

Degree/ Certification	Institution	Year
Ph.D	University of Delhi	2022
M.Sc.	Department of Zoology, University of Delhi	2015
B.Sc. (Hons.) Zoology	Ramjas College, University of Delhi	2013
Certification	CSIR-UGC	2017
Certification	ICMR	2017
Certification	IISc	2016

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
CAREER PROFILE	ASSISTANT PROFESSOR	ZOOLOGY DAULAT RAM COLLEGE, DELHI	15.Sep.2022 - 21.Nov.2022	Guest Faculty

CAREER PROFILE	ASSISTANT PROFESSOR	ZOOLOGY DAULAT RAM COLLEGE, DELHI	28.Jan.2022 - 02.Sep.2022	Guest Faculty
ADMINISTRATIVE ASSIGNMENTS	MEMBER	PORTAL COMMITTEE KIRORI MAL COLLEGE, DELHI	01.Jan.2023 - Till date	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	AUDIO-VISUAL FACILITIES AND EQUIPMENT MAINTENANCE COMMITTEE KIRORI MAL COLLEGE, DELHI	01.May.2023 - Till date	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	PORTAL COMMITTEE KIRORI MAL COLLEGE, DELHI	01.May.2024 - 30.Apr.2025	
ADMINISTRATIVE ASSIGNMENTS	MEMBER	AUDIO-VISUAL FACILITIES AND EQUIPMENT MAINTENANCE COMMITTEE KIRORI MAL COLLEGE, DELHI	01.May.2024 - 30.Apr.2025	

4. Other Profiles

Other Profile Name/ Description

AREAS OF INTEREST/ SPECIALIZATION

Chemometrics, Food adulteration and authentication, Machine learning, Prediction Model development, Food toxicology, Bioremediation, Microbiology

WORKSHOP/ SEMINAR/ CONFERENCE/ WEBINAR ORGANIZED

Two day workshop on Decoding cellular complexity: Network biology approach to discover disease-related key regulatory genes conducted on 6th - 7th November, 2023

5. Research Guidance

Year	Guide For	Title of the Dissertation/ Thesis	Scholar Name	Status

6. Research Projects

Year	Title of Project	Sponsorship Agency	Duration	Amount Sanctioned	Date of Sanction

7. Publications

Category	Publication Name	Title	Name of Author	Reference Link/ DOI Link	Publication (Month-Year)
JOURNAL PAPER (International)	Cold survival strategies for bacteria, recent advancement and potential industrial applications	Archives of microbiology	Dhaulaniya, A. S., Balan, B., Agrawal, P. K., & Singh, D. K. (First Author)	https://doi.org/10.1007/s00203-018-1602-3	November 2019

JOURNAL PAPER (International)	Qualitative and quantitative evaluation of corn syrup as a potential added sweetener in apple fruit juices using mid-infrared spectroscopy assisted chemometric modeling	LWT food science and technology	Dhaulaniya, A. S., Balan, B., Sodhi, K. K., Kelly, S., Cannavan, A., & Singh, D. K. (First Author)	https://doi.org/10.1016/j.lwt.2020.109749	September 2020
JOURNAL PAPER (International)	Development of an FTIR based chemometric model for the qualitative and quantitative evaluation of cane sugar as an added sugar adulterant in apple fruit juices	Food Additives & Contaminants: Part A	Dhaulaniya, A. S., Balan, B., Yadav, A., Jamwal, R., Kelly, S., Cannavan, A., & Singh, D. K. (First Author)	https://doi.org/10.1080/19440049.2020.1718774	April 2020
JOURNAL PAPER (International)	Application of Attenuated Total Reflectance-Fourier Transform Infrared (ATR-FTIR) spectroscopy coupled with chemometrics for detection and quantification of formalin in cow milk	Vibrational Spectroscopy	Balan, B., Dhaulaniya, A. S., Jamwal, R., Sodhi, K. K., Kelly, S., Cannavan, A., & Singh, D. K. (First Author)	https://doi.org/10.1016/j.vibspec.2020.103033	March 2020
JOURNAL PAPER (International)	Microbial biofilm ecology, in silico study of quorum sensing receptor-ligand interactions and biofilm mediated bioremediation	Archives of microbiology	Balan, B., Dhaulaniya, A.S., Verma, D. A., Sodhi, K. K., Kumar, M., Tiwari, M., Singh, D. K. (First Author)	https://doi.org/10.1007/s00203-020-02012-9	January 2021

JOURNAL PAPER (International)	Attenuated total Reflectance–Fourier transform infrared (ATR–FTIR) spectroscopy coupled with chemometrics for rapid detection of argemone oil adulteration in mustard oil.	lwt food science and technology	Jamwal, R., Kumari, S., Balan, B., Dhaulaniya, A. S., Kelly, S., Cannavan, A., & Singh, D. K. (Joint Author)	https://doi.org/10.1016/j.lwt.2019.108945	February 2020
JOURNAL PAPER (International)	Application of ATR- FTIR spectroscopy along with regression modelling for the detection of adulteration of virgin coconut oil with paraffin oil	lwt food science and technology	Amit, Jamwal, R., Kumari, S., Dhaulaniya, A. S., Balan, B., & Singh, D. K. (Joint Author)	https://doi.org/10.1016/j.lwt.2019.108754	January 2020
JOURNAL PAPER (International)	Utilizing ATR-FTIR spectroscopy combined with multivariate chemometric modelling for the swift detection of mustard oil adulteration in virgin coconut oil	Vibrational Spectroscopy	Amit, Jamwal, R., Kumari, S., Dhaulaniya, A. S., Balan, B., Kelly, S., Cannavan, A., & Singh, D. K. (Joint Author)	https://doi.org/10.1016/j.vibspec.2020.103066	July 2020
JOURNAL PAPER (International)	Enhanced ciprofloxacin removal by plant growth-promoting Microbacterium sp. WHC1 in presence of Eichhornia crassipes root exudates.	Environmental Sustainability	Sodhi, K. K., Kumar, M., Dhaulaniya, A. S., Balan, B., & Singh, D. K. (Joint Author)	https://doi.org/10.1007/s42398-020-00153-7	January 2021

JOURNAL PAPER (International)	Analytical advances in food authentication and origin traceability: from mass spectrometry to AI and IoT-enabled smart sensing systems	Journal of Food Measurement and Characterization/Springer US	Anagha Kamble, Swati Bajaj, Amit S Dhaulaniya, Biji Balan (Joint Author)	https://doi.org/10.1007/s11694-025-03341-3	May 2025
JOURNAL PAPER (International)	Perspectives on the antibiotic contamination, resistance, metabolomics, and systemic remediation	SN Applied sciences	Sodhi, K. K., Kumar, M., Balan, B., Dhaulaniya, A. S., Shree, P., Sharma, N., & Singh, D. K. (Joint Author)	https://doi.org/10.1007/s42452-020-04003-3	February 2021
JOURNAL PAPER (International)	Rapid detection and quantification of sucrose adulteration in cow milk using Attenuated total reflectance-Fourier transform infrared spectroscopy coupled with multivariate analysis	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy/Elsevier	Biji Balan, Amit S Dhaulaniya, Rahul Jamwal, Amit Yadav, Simon Kelly, Andrew Cannavan, Dileep K Singh (First Author, Joint Author)	https://doi.org/10.1016/j.saa.2020.118628	October 2020
JOURNAL PAPER (International)	Aflatoxins in food: Prevalence, health effects, and emerging trends in its mitigation—An updated review	Food Safety and Health	Biji Balan, Amit S Dhaulaniya, Munendra Kumar, Mohit Kumar, Prateek Kumar (Joint Author)	https://doi.org/10.1002/fsh3.12030	January 2024

JOURNAL PAPER (International)	Development of a quantification method for the analysis of sugars in apple fruit juice using attenuated total reflection-Fourier transform infrared spectroscopy coupled with multivariate regression modeling	JSFA Reports	Amit Singh Dhaulaniya, Biji Balan, Dileep K Singh (First Author)	https://doi.org/10.1002/jsf2.181	February 2024
CHAPTER (International)	Advances in Antifungal Drug Development: Natural Products with Antifungal Potential	Springer Nature Singapore	Munendra Kumar, Kajal, Nargis Taranum, Khyati, Biji Balan, Prateek Kumar, Amit Singh Dhaulaniya (Joint Author)	https://doi.org/10.1007/978-981-97-5165-5_22	August 2024
CHAPTER (International)	Endophytic Bacterial Applications in Phytoremediation of Organic Pollutants and Toxic Metals	Springer	Mohit Kumar, Amit Singh Dhaulaniya, Pallee Shree & Dileep Kumar Singh (Joint Author)	https://doi.org/10.1007/978-981-15-6895-4_8	October 2020
CHAPTER (International)	Antifungal Potential of Bioactive Compounds Derived from Microbes and Other Natural Sources: Challenges and Future Scope/Advances in Antifungal Drug Development: Natural Products with Antifungal Potential	Springer Nature Singapore	Munendra Kumar, Kajal, Nargis Taranum, Khyati, Biji Balan, Prateek Kumar, Amit Singh Dhaulaniya (Joint Author)	https://doi.org/10.1007/978-981-97-5165-5	August 2024

8. Books

Category	Book Name	Title	Name of Author	ISSN/ ISBN Number
----------	-----------	-------	----------------	-------------------

9. Faculty Achievements

Year	Category of Achievement	Role	National/ International etc.	Name	Date From-To
2022	FACULTY DEVELOPMENT PROGRAM ATTENDED	PARTICIPANT	National	E-Content Development: Concepts and Tools	19.Dec.2022 - 25.Dec.2022
2022	FACULTY DEVELOPMENT PROGRAM ATTENDED	PARTICIPANT	National	Modern scientific technologies – Ways to enhance research skills	26.Dec.2022 - 31.Dec.2022
2023	FACULTY INDUCTION PROGRAM ATTENDED	PARTICIPANT	National	Faculty in Universities/Colleges/Institutes of Higher Education	20.Jan.2023 - 18.Feb.2023
2023	FACULTY DEVELOPMENT PROGRAM ATTENDED	PARTICIPANT	National	Unveiling Apiculture: Exploring the art and science of beekeeping methods and application	10.Oct.2023 - 16.Oct.2023

Dr. AMIT SINGH DHAULANIYA