



DESHBANDHU COLLEGE
(UNIVERSITY OF DELHI)
KALKAJI, NEW DELHI - 110019
Faculty Details Proforma for College Website

Title	Dr.	First Name	RAHUL	Last Name	JAMWAL	Photograph
Designation		Assistant Professor				
Address		House Number: 30, L-Extension, Phase-III, Mohan Garden, Uttam Nagar, New Delhi, 110059				
Phone No. Office		-				
Residence		-				
Mobile		9716088737				
Email		rjamwal@db.du.ac.in and rahuljamwal710@gmail.com				
Web-Page		-				
Educational Qualifications						
Degree		Institution			Year	
Ph.D.		University of Delhi			Submitted (2021)	
M.Phil.		University of Delhi			2017	
PG		University of Delhi			2015	
UG		University of Delhi			2013	
Any other qualification						
Career Profile						
Assistant professor (Ad-Hoc) in Department of Zoology, Deshbandhu College, University of Delhi, from November, 2021.						
Administrative Assignments						
NA						
Areas of Interest/Specialization						
Metagenomics, Molecular Biology, Microbiology, Food Authenticity and Adulteration						
Subjects Taught						
Non-Chordates, Physiology: Controlling and Coordinating Systems, Insect Vector & Diseases						
Research Guidance						
<i>List against each head (If applicable):</i>						
<ol style="list-style-type: none"> 1. Supervision of awarded Doctoral Thesis (NA) 2. Supervision of Doctoral Thesis, under progress(NA) 3. Supervision of awarded M.Phil. dissertations (NA) 4. Supervision of M.Phil. dissertations, under progress (NA) 						
Publications Profile						

List against each head (If applicable) (as illustrated with examples)

1. Books/Monographs (Authored/Edited) - NA

2. Research papers published in Refereed/Peer Reviewed Journals

1. Jamwal, R., Kumari, S., Balan, B., Dhaulaniya, A. S., Kelly, S., Cannavan, A., & Singh, D. K. (2020). Attenuated total Reflectance–Fourier transform infrared (ATR–FTIR) spectroscopy coupled with chemometrics for rapid detection of argemone oil adulteration in mustard oil. *LWT*, 120, 108945. Impact factor – 5.383, Citations: 17

2. Jamwal, R., Kumari, S., Balan, B., Kelly, S., Cannavan, A., & Singh, D. K. (2021). Rapid and non-destructive approach for the detection of fried mustard oil adulteration in pure mustard oil via ATR-FTIR spectroscopy-chemometrics. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 244, 118822. Impact factor – 4.098, Citations: 08

3. Jamwal, R., Kumari, S., Kelly, S., Cannavan, A., & Singh, D. K. (2021). Non-targeted fingerprinting approach for rapid quantification of mustard oil adulteration with linseed oil: an economically motivated adulteration. *Vibrational Spectroscopy*, 103226. Impact factor – 2.507, Citations: 0

4. Jamwal, R., Kumari, S., Sharma, S., Kelly, S., Cannavan, A., & Singh, D. K. (2021). Recent trends in the use of FTIR spectroscopy integrated with chemometrics for the detection of edible oil adulteration. *Vibrational Spectroscopy*, 103222. Impact factor – 2.507, Citations: 03

5. Amit, Jamwal, R., Kumari, S., Kelly, S., Cannavan, A., & Singh, D. K. (2020). Rapid detection of pure coconut oil adulteration with fried coconut oil using ATR-FTIR spectroscopy coupled with multivariate regression modelling. *LWT*, 125, 109250. Impact factor – 5.383, Citations: 18

6. Amit, Jamwal, R., Kumari, S., Dhaulaniya, A. S., Balan, B., & Singh, D. K. (2020). Application of ATR-FTIR spectroscopy along with regression modelling for the detection of adulteration of virgin coconut oil with paraffin oil. *LWT*, 118, 108754. Impact factor – 5.383, Citations: 06

7. Amit, Jamwal, R., Kumari, S., Dhaulaniya, A. S., Balan, B., Kelly, S., Cannavan, A., & Singh, D. K. (2020). Utilizing ATR-FTIR spectroscopy combined with multivariate chemometric modelling for the swift detection of mustard oil adulteration in virgin coconut oil. *Vibrational Spectroscopy*, 109, 103066. Impact factor – 2.507, Citations: 07

8. Balan, B., Dhaulaniya, A. S., Jamwal, R., Yadav, A., Kelly, S., Cannavan, A., & Singh, D. K. (2020). 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*, 240, 118628. Impact factor – 4.098, Citations: 05

9. Balan, B., Dhaulaniya, A. S., Jamwal, R., Sodhi, K. K., Kelly, S., Cannavan, A., & Singh, D. K. (2020). 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*, 107, 103033. Impact factor – 2.507, Citations: 13

10. Dhaulaniya, A. S., Balan, B., Yadav, A., Jamwal, R., Kelly, S., Cannavan, A., & Singh, D. K. (2020). 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*, 37(4), 539-551.

Impact factor – 3.057, Citations: 01

11. Kumari, S., Jamwal, R., Mishra, N., & Singh, D. K. (2020). Recent developments in environmental mercury bioremediation and its toxicity: A review. *Environmental Nanotechnology, Monitoring & Management*, 13, 100283.

Citations: 30

12. Sharma, S., Khandelwal, P., Singh, K., Mishra, N., Jamwal, R., & Singh, D. K. (2017). Molecular investigation of biological nitrogen fixation: A Review. *International Journal of Scientific Research*.

3. *Other publications (Edited works, Book reviews, Festschrift volumes, etc.):NA*

Conference Organization/ Presentations

List against each head(If applicable)

1. *Organization of a Conference: None*

2. *Participation as Paper/Poster Presenter*

1. Attended HEALTH 2021 e-INTERNATIONAL CONFERENCE on CANCER BIOLOGY: ADVANCES & CHALLENGES and submitted abstract on “Advances in Cancer Diagnostics and Therapy: The implication of Nanotechnology” under the Theme “Cancer Diagnosis Therapy and Treatment “ held on November 2021 at Deshbandhu College, University of Delhi, New Delhi.

2. Poster presentation in International Conference Contemporary Issues in Integrating Health and Nutrition with the Emerging Areas of Food Technology, Agriculture, Environment and Allied Sciences, (2019) at Shyama Prasad Mukherji College for Women, University of Delhi, New Delhi, India on “ATR-FTIR spectroscopy along with multivariate chemometrics for the classification and detection of palm oil adulteration in extra virgin olive oil ”.

3. Poster presentation in 2nd International Conference On Recent Advances in Agricultural, Environmental & Applied Sciences for Global Development (RAAEASGD), (2019) at Dr.YSPUHF Solan, Himachal Pradesh, India on “Detection and quantification of fried oil in mustard oil and coconut oil by ATR-FTIR spectroscopy combined with chemometrics”.

4. Poster presentation in 58th Annual Conference of Association of Microbiologists of India (AMI-2017) & International Symposium on “Microbes for Sustainable Development: Scope & Applications” (MSDSA-2017): on “Isolation of Potential Aerobic Denitrifying Bacteria from Yamuna River Water”.

5. Participated in conference held on May, 2018 "Nurturing Immunology and Beyond" at Department of Zoology, University of Delhi, New Delhi.

6. Participated in "Workshop on Data Acquisition and Analysis" at Department of Zoology, University of Delhi, New Delhi.

7. Participated in "Third National symposium on Environment: Challenges Generation Next" held on March 2017, at Deshbandhu College, University of Delhi, New Delhi.

8. Participated in “Workshop on Microbial Genomics and Metagenomics” held on September 2016 at Department of Zoology, University of Delhi, Delhi.

Research Projects (Major Grants/Research Collaboration)

NA

Awards and Distinctions

Qualified Council of Scientific and Industrial Research – Junior Research Fellowship (CSIR-JRF)
Qualified Indian Council of Medical Research-Junior Research Fellowship (ICMR-JRF)

Association With Professional Bodies

NA

Other Activities

1. National Cadet Corps (NCC): Successfully completed both 'B' and 'C' certificate with "A" grade and "B" grade.
2. Assisted M.Sc. final year students in their dissertation work. (2017 – 2020)
3. Assisted in conducting practical classes of the M.Sc. final year [Subject - Insect toxicology] (2017-2019)



Signature of Faculty
Member

- You are also requested to give your complete resume as a Word or PDF file to be attached as a link on your department page.