




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

Title	Dr.	First Name	Vanshika	Last Name	Lumb	Photograph																				
Designation		Assistant Professor																								
Address		61, Pocket B10, Sector 3, Rohini, Delhi-110085																								
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Web-Page																										
Educational Qualifications																										
Degree		Institution			Year																					
Ph.D.		AIIMS			2012																					
M.Phil.																										
PG		University of Delhi, South Campus			2005																					
UG		University of Delhi			2003																					
Any other qualification																										
Career Profile																										
Working as an Assistant Professor (Adhoc) since 2011.																										
Administrative Assignments																										
<p>Co-convener Department Website Committee.            Member AQAR Committee, Deshbandhu College.            Actively participated in the committees of Annual cultural festival of Deshbandhu College "Sabrang" from 2015-2018.            I was also participated as organizing member in the INSPIRE Internship Programme-2015 and 2017.            I was also an editor of the annual magazine BIOSPARK, published at the time of academic fest of Biochemical Society, Deshbandhu College.</p>																										
Areas of Interest/Specialization																										
Molecular Biology/ Parasitology																										
Subjects Taught																										
<table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 30%;">Membrane Biology</td> <td style="width: 20%;"></td> <td style="width: 20%;"></td> <td style="width: 30%;"></td> </tr> <tr> <td>Molecular Biology</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Biotechnology</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Metabolism</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Plant Biochemistry</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>							Membrane Biology				Molecular Biology				Biotechnology				Metabolism				Plant Biochemistry			
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Plant Biochemistry																										
Research Guidance																										
<p>List against each head(If applicable):</p> <ol style="list-style-type: none"> <li>1. Supervision of awarded Doctoral Thesis</li> <li>2. Supervision of Doctoral Thesis, under progress</li> <li>3. Supervision of awarded M.Phil. dissertations</li> </ol>																										

4. Supervision of M.Phil. dissertations, under progress

Publications Profile

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

1. Books/Monographs (Authored/Edited)

2. Research papers published in Refereed/Peer Reviewed Journals

a) Research papers published in Academic Journals other than Refereed/Peer Reviewed Journals

1. Garg S, Saxena V, **Lumb V**, Pakalapati D, Boopathi PA, Subudhi AK, Chowdhury S, Kochar SK, Kochar DK, Sharma YD, Das A. **Novel mutations in the antifolate drug resistance marker genes among *Plasmodium vivax* isolates exhibiting severe manifestations.** Exp Parasitol. 2012 Dec; 132(4):410-6. Impact factor: 1.6, ISSN: 0014-4894.
2. Zeeshan M, Alam MT, Vinayak S, Bora H, Tyagi RK, Alam MS, Choudhary V, Mitra P, **Lumb V**, Bharti PK, Udhayakumar V, Singh N, Jain V, Singh PP, Sharma YD. **Genetic variation in the *Plasmodium falciparum* circumsporozoite protein in India and its relevance to RTS,S malaria vaccine.** PLoS One. 2012; 7(8):e43430. Impact factor: 4.1, ISSN: 1932-6203.
3. **Lumb, V.**, Madan, R., Das, M.K., Rawat V., Dev, V., Khan, W., Khan, H., and Sharma, Y.D. **Differential genetic hitchhiking around mutant *pfprt* alleles in the Indian *P. falciparum* populations.** J. Antimicrob. Chemother. 2012 Mar; 67(3):600-8. Impact factor: 4.9, ISSN: 0305-7453.
4. **Lumb, V.**, Das, M.K., Singh, N., Dev, V., Khan, W., and Sharma, Y.D. **Multiple Origins of *Plasmodium falciparum* Dihydropteroate Synthetase Mutant Alleles Associated with Sulfadoxine Resistance in India.** Antimicrob Agents Chemother. 2011; 55(6):2813-7. Impact factor: 4.9, ISSN: 0066-4804.
5. **Lumb, V.** and Sharma, Y.D. **Novel K540N Mutation in *Plasmodium falciparum* Dihydropteroate Synthetase Confers a Lower Level of Sulfa Drugs Resistance than K540E Mutation.** Antimicrob Agents Chemother. 2011; 55(5):2481-2. Impact factor: 4.9, ISSN: 0305-7453.
6. Das MK\*, **Lumb V\***, Mitra P, Singh SS, Dash AP, Sharma YD. **High chloroquine treatment failure rates and predominance of mutant genotypes associated with chloroquine and antifolate resistance among *falciparum* malaria patients from the island of Car Nicobar, India.** J Antimicrob Chemother. 2010 Jun; 65(6):1258-61. Impact factor: 4.2, ISSN: 0066-4804.
7. **Lumb V**, Das MK, Singh N, Dev V, Khan W, Sharma YD. **Characteristic of genetic hitchhiking around dihydrofolate reductase (*dhfr*) gene associated with pyrimethamine resistance in *Plasmodium falciparum* isolates from India.** Antimicrob Agents Chemother. 2009; 53: 5173-5180. Impact factor: 4.9, ISSN: 0066-4804.
8. **Lumb V**, Das MK, Mitra P, Ahmed A, Kumar M, Kaur P, Dash AP, Singh SS, Sharma YD **Emergence of an unusual sulfadoxine-pyrimethamine resistance pattern and a novel K540N mutation in dihydropteroate synthetase in *Plasmodium falciparum* isolates obtained from Car Nicobar Island, India, after the 2004 Tsunami.** J Infect Dis. 2009 Apr 1; 199(7):1064-73. Impact factor: 4.9, ISSN: 0022-1899.
9. Rawat DS, **Lumb V**, Sharma YD, Pasha ST, Singh G. **Histone as future drug target for malaria.** J Commun Dis. 2007 Jun; 39(2):119-28. ISSN: 00195138
10. Ahmed A, **Lumb V**, Das MK, Dev V, Wajihullah, Sharma YD. **Prevalence of mutations associated with higher levels of sulfadoxine-pyrimethamine resistance in *Plasmodium falciparum* isolates from Car Nicobar Island and Assam, India.** Antimicrob Agents Chemother. 2006 Nov; 50(11):3934-8. Impact factor: 6.2, ISSN: 0022-1899.
11. Goswami R, Goel S, Tomar N, Gupta N, **Lumb V**, Sharma YD. **Prevalence of clinical remission in patients with sporadic idiopathic hypoparathyroidism.** Clin Endocrinol (Oxf). 2010; 72(3):328-33. Impact factor: 3.5, ISSN: 0300-0664.

b) Research papers published in Refereed/Peer Reviewed Conferences

c) Research papers Published in Conferences/Seminar other than Refereed/Peer Reviewed Conferences

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

## Conference Organization/Presentations

List against each head (If applicable)

### Organization of a Conference

1. Participated as organizing member in International Webinar on "RARE DISEASES: RARE INSIGHTS INTO THE RESEARCH, CHALLENGES AND CONCERNS" organized on 29th March, 2021.
2. Participated as Session coordinator in "Online Hands-on Workshop in Research Methodology" on 1st-5th April, 2021.
3. Participated as Organizing secretary of International Webinar Series lecture on "Hands on Training Session in Scientific Writing" organized on 12th November, 2020.
4. Participated as organizing member in International Webinar Series "Understanding Pathophysiology and Therapeutic Strategies for Neurological Disorders" on 29th October, 2020.
5. Participated as organizing member in International Webinar Series on "Non-invasive Cancer Diagnosis and Prognosis" on 17th October, 2020.
6. Participated as Organising member in National Conference in: Pharmacovigilance: Advancement of Safe drug development" in 16th-17th January 2020.
7. Participated in "National Symposium on Translational Research in Health Sciences" organized by Society of Young Scientist, All India Institute of Medical Sciences, New Delhi-110029 on 24th November 2009.
8. Participated in the workshop "Protein modeling and docking studies for rational drug design" held at Institute of Genomics and Integrative Biology South Campus, Mathura Road on December 23-24, 2013.
9. Participated in SCIENCE SETU workshop on DNA FINGERPRINTING held on 22nd January 2016 at Hindu College, University of Delhi.

### Participation as Paper/Poster Presenter

Participated in International Symposium on Tribal health held on 27th February 2009 by Regional Malaria Research Centre for Tribals (RMRCT) Jabalpur, Madhya Pradesh, India. Also presented the poster in the same conference "Extensive genetic diversity in the Plasmodium falciparum Na<sup>+</sup>/H<sup>+</sup> exchanger (pfnc1) gene implicated in quinine resistance and its flanking microsatellites"

Participated in Fourth National Symposium on Environment: Green Technology on Environmental Sustainability held at Deshbandhu College, University of Delhi held on 25th September, 2018. Also presented the Poster on "Green Methodology for the synthesis of Henna based derivatives using Lemon Juice as the catalyst".

Majila K\*, Behl R, Lumb V and Karwal P. "To characterise lighter shades of eye coloured mutant *Drosophila melanogaster* strains observed in wild type and white eyed fly lab stocks" at National Conference on Insect Plant Biology in 21 st century held at Deshbandhu College, November 4-5, 2019.

Kumar A., Gupta N., Gupta A., Lumb V and Preeti Karwal\* "Building a compendium for literature-based

assessment of the spectrum and status of potential natural product-based anti-Systemic Lupus Erythematosus (SLE) therapy.” at International Conference on Natural Products and Human Health held at University of Delhi Conference Centre organized by Department of Zoology, Deshbandhu College, February, 27-29, 2020.

#### Abstract Publication

Himanshu\*, Gupta A., Lumb V. “Investigation of ROS neutralisation mechanisms adapted by cell during initial zygotic cleavage divisions” Proceedings of Frontiers in Biochemistry and Biotechnology: Strategies to combat human diseases. ISBN: 8190-1856-91.

#### Research Projects (Major Grants/Research Collaboration)

Worked as a Project Investigator in the Innovation Project **“Drug Design through Molecular Modeling Studies for Selected Drug Targets in *Plasmodium falciparum* to Combat Drug Resistance against Malaria”** funded by Delhi University from November 15, 2013 – November 15, 2014. Article on research work is published in DU Journal of Undergraduate Research and Innovation titled “Targeting resistant *Plasmodium* through *In silico* approach.” Volume 1, Issue 3 pp 57-66, 2015.

Worked as CoPI/Mentor in DBT Star College Scheme Project **“Isolation, identification and characterization of contaminating microbes in regular bacterial culturing in lab conditions.”**

Worked as CoPI/ Mentor in DBT Star College Scheme Project **“To analyse eye colour pigments of wild type and different eye colour mutant *Drosophila melanogaster* strains.**

#### Awards and Distinctions

Junior Research Fellowship funded by Council of Scientific and Industrial Research (CSIR), Department of Human Resource and Development, Government of India.

#### Association With Professional Bodies

- *Editing*
- *Reviewing*
- *Advisory*
- *Committees and Boards*
- *Memberships*
- *Office Bearer*

#### Other Activities

Attended the special training programme from Applied Biosystems, LabIndia, Gurgaon, for the application of 3130xl automated sequencer.

Worked as a Resource person in the workshop for Laboratory Assistants/ Attendants in Chemical and Life Sciences, organized by Shivaji College, University of Delhi from July 16-18, 2014.

Worked as a Resource person in the workshop for teachers and researchers in recent trends in Biochemistry and Biotechnology, organized by Deshbandhu College, University of Delhi in April, 2016.

Participated in Seven Day Faculty Development Program on “Development and Delivery of Moocs and E-content” being jointly organized by the Central University of Haryana and Deshbandhu College,

University of Delhi under PMMMMNMTT scheme from 26<sup>th</sup> June to 1st July, 2020.

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.