



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

Title	Dr.	First Name	Ishwar Dutt	Last Name	Vats	Photograph
Designation		Assistant Professor				
Address		House No. A-2731, Ground Floor, Green Fields Colony Aravalli Hills, Faridabad, Haryana-121010				
Phone No. Office						
Residence						
Mobile		9811462851				
Email		ivats@db.du.ac.in				
Web-Page						
Educational Qualifications						
Degree		Institution			Year	
Ph.D.		IGIB & Department of Chemistry, University of Delhi			2009	
M.Phil.						
PG		Hansraj College & Department of Chemistry			2004	
UG		Acharya Narendra Dev College			2002	
Any other qualification		JRF & NET Qualified			2003-2004	
Career Profile						
<ol style="list-style-type: none"> (November 2014 – Till Date) Assistant Professor in Department of Chemistry, Deshbandhu College, University of Delhi. (August 2013 – October 2014) Assistant Professor in Department of Chemistry, Shyam Lal College, University of Delhi. (January 2013 - May 2013) Assistant Professor (Guest) in Hansraj and Kirori Mal College, University of Delhi. (November 2010 – December 2012) Assistant Professor (Ad-hoc) in Rajdhani College, University of Delhi. (December 2009 – November 2010) Research Scientist in Panacea Biotec Ltd., at Biopharmacuetial Reserach Centre, New Delhi. 						
Administrative Assignments						
Library committee member for 2 years, Financial Assistance committee member, Extension Lecture Committee member Sports Committee member Currently, Time table convener from sciences and Proctorial committee member						
Areas of Interest/Specialization						
Medicinal Chemistry, Peptide Chemistry and Synthetic Organic Chemistry						
Subjects Taught						
Organic Chemistry						
Green Chemistry						
Industrial Chemistry						
Research Guidance						

Publications Profile

INTERNATIONAL PUBLICATIONS:

1. Karwala P, **Vats ID**, Sinha N, Singhal A, Sehgal T, Kumari P. Therapeutic applications of Peptides Against Zika Virus: A Review. **Current Medicinal Chemistry**, 2019, 26, 1-17.
2. **Vats ID**, Snehlata, Nath M, Pasha S. Effect of Chronic Intra-Peritoneally Administered Chimeric Peptide of Met-Enkephalin and FMRFa-[D-Ala²]YFa-on Antinociception and Opioid Receptor Regulation. **European Journal of Pain** 2010 Mar; 14(3):295. (ISSN No. 1090-3801)
3. **Vats ID**, Snehlata, Nath M, Pasha S. Rationally designed chimeric peptide of met-enkephalin and FMRFa-[D-Ala² p-Cl-Phe⁴]YFa- induce multiple opioid receptors mediated antinociception and up-regulate their expression. **European Journal of Pharmacology** 2010, 638(1-3):54-60. (ISSN No. 0014-2999)
4. **Vats ID**, Snehlata, Karar J, Nath M, Pasha MA, Pasha S. Endogenous Chimeric peptide: Met-enkephalin-Arg-Phe, Differently Regulate Expression of Opioid Receptors on Chronic Treatment. **Neuropeptides** 2009 Oct; 43(5):355-62. (ISSN No. 0143-4179)
5. **Vats ID**, Dolt KS, Kumar K, Karar J, Nath M, Mohan A, Pasha MA, Pasha S. [YFa, a chimeric opioid peptide, induces kappa-specific antinociception with no tolerance development during 6 days of chronic treatment.](#) **Journal of Neuroscience Research** 2008 May 15; 86(7):1599-607. (ISSN No. 1097-4547)
6. Snehlata, **Vats ID**, Madhu Chopra, Parbati Biswas, Santosh Pasha. Effect of Varying Chain Length between P1 and P1' Position of Tripeptidomimics on Activity of Angiotensin Converting Enzyme Inhibitors. **Bioorganic and Medicinal Letters** (2009) 19: 4364-4366. (ISSN No. 0960-894X)
7. Gupta K, **Vats ID**, Gupta YK, Saleem K, Pasha S. [Lack of tolerance and morphine-induced cross-tolerance to the analgesia of chimeric peptide of Met-enkephalin and FMRFa.](#) **Peptides**. 2008 Dec; 29(12): 2266-75. (ISSN No. 0196-9781)
8. Chaudhary S, Seth MK, **Vats ID**, Kumar K, Biswas P, Karar J, Hussain ME, Pasha M, Pasha S. Sulphur Containing Angiotensin Converting Enzyme Inhibitor- 3-Thienylalanine-Ornithyl-Proline Activates Endothelial Function and Expression of Genes Involved in Renin Angiotensin System. **J Cardiovasc Pharmacol.** 2012 Dec 7. (ISSN No. 1533-4023)
9. **Vats ID**, Snehlata, Sharma A, Nath M, Pasha S. Role of C Terminal -RFamide- site of chimeric opioid peptide of Met-enkephalin and FMRFa in antinociception and opioid receptor specificity. (Under Revision in **Neuropeptides**)
10. **Vats ID**, Snehlata, Nath M, Pasha S. Direct evidence that chronic morphine treatment alters the expression of δ and κ opioid receptors along with μ receptors. (Communicated to **Neuroscience Research**)

Conference Organization/ Presentations

International Presentations:

1. Synthesis and Pharmacological Evaluation of Chimeric Peptide [D-Ala², p-Cl-Phe⁴]YFa. **Vats ID**, Nath M, Pasha S. **13th ISCBC-2009 International Conference on Interplay of Chemical and Biological Sciences: Impact on Health and Environment.**
2. Role of Anti-Opioid Sequence in Chimeric Peptide YFa on its Antinociception and Receptor Specificity. **Vats ID**, Nath M, Pasha S. **Zing International Medicinal Chemistry Conference 2009.**
3. Modulation In Antinociception And Receptor Specificity By Change Of Single Amino Acid in Met-Enkephalin And FMRFa Derived Chimeric Peptides. **Vats ID**, Nath M, Pasha S. **International Narcotics Research Conference 2008.**
4. Lack of tolerance and morphine-induced cross tolerance to the analgesia of chimeric peptide of Met-enkephalin and FMRFa. Gupta K, **Vats ID**, Gupta YK, Saleem K, Pasha S. **International Conference on Translational Pharmacology & 41st Annual Conference of Indian Pharmacological Society 2008.**

National Presentation:

A kappa specific chimeric peptide of Met-enkephalin and FMRFa induces tolerance dissociated

antinociception. Vats ID, Nath M, Pasha S. **1st Indian Peptide Symposium 2007.**

Conference & Symposium Attended:

- 9th CRSI National Symposium in Chemistry (NSC-9) **2006.**
- 2nd Indian Peptide Symposium **2009.**
- 13th ISCB International Conference on “Interplay of Chemical and Biological Sciences: Impact on Health and Environment” **2009.**
- National Seminar on “Role of Analytical Techniques in Biological and Environmental Sciences” **2011.**
- Academic Congress, Enabling the Young: Redefining Education, University of Delhi, **2012.**
- Successfully Participated in three weeks Refresher Course in Chemistry from 26th June to 16 July, **2015** from CPDHE, University of Delhi.
- Successfully participated in the 116th four week Orientation Programme organized by the UGC-HRDC, Jamia Millia Islamia University, new delhi from 19th July to 16 August, **2016.**
- Executive Organizing Committee member in Indo-Portuguese Workshop on Emerging Trends of Nanotechnology in Chemistry and Biology held on 12th and 13th February, **2016** in University of Delhi.
- Successfully attended Workshop on Green Chemistry Courses held during the International Conference on Advancing Green Chemistry: Building a Sustainable Tomorrow held on 3rd and 4th October, **2017** in Department of Chemistry, University of Delhi.
- Participated in National Workshop on Technical Terminology in Science Teaching held on 26th and 27th October, **2017** at Deshbandhu College, University of Delhi, Kalkaji, New Delhi.
- Participated in the Workshop on Molecular Modelling held on 23rd January, **2018** in Atma Ram Sanatan Dharma College, University of Delhi, Dhaula Kuan, New Delhi.

Research Projects (Major Grants/Research Collaboration)

Innovation Project:

Principle investigator of project entitle "**Fabrication, Improvement and Technological promotion of polymer gel electrolyte based all Solid Dye Sensitized Solar Cells for harnessing solar energy in India**"

Awards and Distinctions

- **Awarded 100% travel grant for attending conference in USA, from Department of Biotechnology & Council of Scientific and Industrial Research, Govt. of India.**
- **Awarded 100% travel grant for attending conference in Mexico, from Department of Science and Technology, Govt. of India and Council of Scientific and Industrial Research, Govt. of India.**

Association With Professional Bodies

- **Member of Indian Peptide Society.**
- **Member of Indian Science Congress Association.**
- **Member of Indian Society of Analytical Scientists.**

Other Activities

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.