




Shivaji College Faculty Details Proforma

Title	Dr.	First Name	Usha	Last Name	Yadav	Photograph
Designation		Assistant Professor				
Address		Sector-21, Gurugram- 122016 Haryana				
Office Phone No.						
Residence						
Mobile		9911515411				
Email		ushayadav1305@gmail.com				
Web-Page						
Educational Qualifications		B.Sc., M.Sc., Ph.D.				
Degree		University/Institute			Year	
Ph.D.		National Insitute of Immunology			2019	
M.Phil./M.Tech.						
PG		University of Delhi, South Campus			2012	
UG		Shivaji College, University of Delhi			2010	
Any Other Qualification						
Career Profile						
Assistant Professor in Department of Biochemistry, Shivaji College, University of Delhi (July, 2018 - till date).						

Administrative Assignments
<p>Member of Shivaji College NAAC team 2020 Member of Women Development Cell 2019-2020 Member of Alumni committee 2019</p>
Areas of Interest/Specialisation
<p>Proteins, Enzymes, Molecular Biology, Genetic Engineering and Biotechnology, Protein-protein interactions</p>
Subjects Taught
<p>Cell Biology; Basic Microbiology; Tools and Techniques in Biochemistry; Enzymes; Gene Organization, Replication and Repair; Nutritional Biochemistry; Metabolism of Carbohydrates and Lipids; Metabolism of Amino Acids and Nucleotides; Molecular Biology of Infectious Diseases and Protein Purification Techniques.</p>
Innovation Project/Research Projects (Major Grants/Research Collaboration)
Publications Profile (Research Papers/Books)
<ol style="list-style-type: none"> Yadav U, Arya R, Kundu S and Sundd M. (2018) The 'recognition helix' of the type II Acyl Carrier Protein (ACP) utilizes a 'ubiquitin interacting motif (UIM)' like surface to bind its partners. <i>Biochemistry</i> (10.1021/acs.biochem.8b00220). Yadav U and Sundd M. (2018) Backbone chemical shift assignments of the glycine cleavage complex H protein of <i>Escherichia coli</i>. <i>Biomolecular NMR Assignments</i> 12(1):163-165. Kumar A, Arya R, Makwana PK, Dangi RS, Yadav U, Surolia A, Kundu S and Sundd M. (2015) The structure of the Holo-Acyl Carrier Protein of <i>Leishmania major</i> displays a remarkably different phosphopantetheinyl transferase binding interface. <i>Biochemistry</i> 54(36):5632-5645.
Conference/Seminar/Faculty Development Programme/Workshop
<p>ORAL PRESENTATIONS</p> <ul style="list-style-type: none"> Usha Yadav and Monica Sundd (2017) "Elucidating the molecular interactions of the lipoate protein ligase B in the endogenous lipoic acid synthesis", National Conference on Protein Structure and Dynamics in Health and Agriculture, from November 3-4, 2017, at Jamia Milia Islamia University, New Delhi. Usha Yadav and Monica Sundd (2017) "Unraveling the molecular interactions of the lipoate protein ligase B during lipoic acid synthesis", YES symposium from October 5-6, 2017, organized by National Institute of Immunology, New Delhi. Usha Yadav and Monica Sundd (2017) "Unraveling the interactions of octanoyltransferases", Protein Society Meet, Delhi on January 28, 2017 at Indian Institute of Technology, New Delhi. <p>POSTER PRESENTATIONS</p> <ul style="list-style-type: none"> Usha Yadav and Monica Sundd (2018) "Insights into the molecular interactions of the lipoate protein ligase B during lipoic acid synthesis", 42nd Annual Meeting of the Indian Biophysical Society, March 9-11, 2018, IISER Pune. Usha Yadav and Monica Sundd (2017) "Unraveling the molecular interactions of the lipoate protein ligase B during lipoic acid synthesis", 86th Annual Conference of Society of

Biological Chemists on Emerging Discoveries in Health and Agricultural Sciences, November 16-19, 2017, Jawaharlal Nehru University, New Delhi.

- **Usha Yadav** and Monica Sundd (2017) “Characterization of the lipoate protein ligase B (Octanoyltransferase) involved in the endogenous lipoic acid synthesis pathway of *Leishmania major*”, Annual Symposium of the Indian Biophysical Society, March 23-25, 2017, IISER, Mohali.
- **Usha Yadav** and Monica Sundd (2015) “Biochemical characterization of *Leishmania major*'s Lipoate protein ligase/octanoyltransferase”, Parasitology 2015-A Conference on Recent Trends in Parasitology, March 20-21, 2015, Jawaharlal Nehru University, New Delhi.
- **Usha Yadav** and Monica Sundd (2015) “TAMIFLU: A magic wand for influenza”, National Science Day, February 28, 2015, National Institute of Immunology, New Delhi.
- **Usha Yadav** and Monica Sundd (2015) “Biochemical characterization of Lipoate protein ligase/octanoyltransferase of *Leishmania major*, National Symposium on Biophysics and Golden Jubilee Meeting of the Indian Biophysical Society, February 14-17, 2015, Jamia Milia Islamia University, New Delhi.
- **Usha Yadav** and Monica Sundd (2014) “Purification and biochemical characterization of Lipoate protein ligase/octanoyltransferase of *Leishmania major*”, BioWorld 2014: Protein Structure and Function, December 12-14, 2014, Indian Institute of Technology, New Delhi.
- Preeti Gupta, **Usha Yadav**, P. K. Sahoo and Aparna Dixit (2013) “Recombinant expression and purification of RNA2-encoded capsid protein of betanodavirus”, Symposium on Fish Genomics, January, 2013, Central Institute of Freshwater Aquaculture, Bhubaneswar.
- Amit Kumar, Manish Shandilya, Rudra kashyap, **Usha Yadav**, V.A. Semionkin, Michael Oshtrakh, Suneel Kateriya and Suman Kundu (2013) “Discovery to applications: snapshots of a Globin journey”, International Conference on Bimolecular Forms and Functions, Indian Institute of Science, Bangalore.
- Sheetal Uppal, Tanmay Vaidya, **Usha Yadav** and Suman Kundu (2012) “Characterization of amyloidogenesis of Neuroglobin”, National Science Day Symposium, February, 2012, University of Delhi South Campus.
- Participated in the National Symposium organized by Department of Biochemistry, Deshbandhu College in 2010.
- Participated and presented poster in National Symposium on Molecular Cell Biology ‘Catenanes’ organized by Shivaji College, University of Delhi in 2009.

Participated in

- Webinar on “Zebrafish Model System” organized by the Department of Biochemistry, Shivaji College. University of Delhi under the DBT sponsored Star College Scheme on May 8, 2020.
- International webinar on “Psychological Well-Being and COVID-19: An Internal Journey” organized by Women Development Cell, Shivaji College. University of Delhi on May 7, 2020.
- International e-summit on “Entrepreneurship Development through Ecotourism in Northeast India” organized by Shivaji College, University of Delhi on February 14-15, 2019.

Research Guidance (Supervision of Doctoral Thesis/Dissertations)

NA

Awards and Distinctions

1. Best Poster award for the poster “TAMIFLU: A magic wand for influenza”, presented at National Science Day, February 28, 2015, National Institute of Immunology, New Delhi.
2. Awarded CSIR-UGC NET (All India Test for Junior Research Fellowship & Eligibility for Lectureship) in 2012.
3. Awarded Delhi University South Campus M.Sc. endowment scholarship in the year 2010-2011.
4. Secured first position in B.Sc. (H) Biochemistry, Shivaji College in 2007-2008 and 2009-2010.

Memberships

Other Academic Activities

1. Organizer, webinar on “DNA Repair” organized by the Department of Biochemistry, Shivaji College, University of Delhi on April 30, 2020.
2. Member, organizing committee of the International Conference on “Frontiers in Biochemistry and Biotechnology: Strategies to Combat Human Diseases” organized by Department of Biochemistry, Shivaji College and South Campus, University of Delhi on February 12-13, 2020.
3. Editor, proceedings of the International Conference on “Frontiers in Biochemistry and Biotechnology: Strategies to Combat Human Diseases” organized by Department of Biochemistry, Shivaji College and South Campus, University of Delhi on February 12-13, 2020.
4. Member, organizing committee of the International Conference on “Women’s Leadership for Global Peace and Prosperity” organized by Women Development Cell, Shivaji College on January 9-10, 2020.
5. Editorial team member of coffee table book “Sansmaran: A Decade of Reminiscence” published by Women Development Cell, Shivaji College, University of Delhi, 2020, ISBN: 8190-1856-24.
6. Supervisor, Summer Training on “Basic Microbiological techniques with special reference to bacteria” organized by Department of Biochemistry, under DBT sponsored Star College Scheme, Shivaji College from June 20- July 17, 2019.
7. Resource person of Laboratory Skill Training Programme for Assistants/Attendants in the Chemical and Life Science laboratories under the DBT Sponsored Star College Scheme, held at Shivaji College on May 20-24, 2019.
8. Member, organizing committee of the National Symposium on “Recent Advances in Biological Sciences” organized by Department of Biochemistry, Shivaji College on April 10, 2019.
9. Editor of Biokemi 2019: Annual edition of the Biochemistry Magazine, Shivaji College, University of Delhi.
10. Member, organizing committee of “Health Mela” (extension of Innovation project SHC-311) organized in Shivaji College premises in collaboration with West District Legal Services Authority (WDLA) for all teaching and non-teaching staff and students on October 31, 2018.

Cultural/Extracurricular Activities

Member of Annual day report committee 2018-2019 and 2019-2020

Signature of Faculty Member