




Shivaji College Faculty Details Proforma

Title	Dr.	First Name	Jayita	Last Name	Thakur	Photograph
Designation		Assistant Professor				
Address		Department of Biochemistry Shivaji College, University of Delhi				
Office Phone No.						
Residence						
Mobile		9717675282				
Email		Jayita@shivaji.du.ac.in				
Web-Page						
Educational Qualifications		PhD				
Degree		University/Institute			Year	
Ph.D.		National Institute of Immunology				
M.Phil./M.Tech.		NA				
PG		Banaras Hindu University				
UG		Nagpur University				
Any Other Qualification		NA				
Career Profile						
Assistant Professor, Department of Biochemistry, Shivaji College 2013- Present						
Administrative Assignments						
<ul style="list-style-type: none"> Teacher-in-Charge, 2016-17, 2021-22 Convener: Placement Cell 2021-2024 Convener: Internal Assessment Committee 2023-24 Convener: Star College Scheme, Department of Biochemistry 2023-present Co-Convener: Star College Scheme, Department of Biochemistry 2019-2023 						

- **Member:** Women's Development Cell 2019-20
Anti-Sexual Harassment Committee, 2019-20
Annual Day Committee 2019-20
Purchase Committee 2018-19
Magazine Committee 2016-17
Eco-Club 2015-17

Areas of Interest/Specialisation

Cell Biology, Molecular Biology, Molecular Virology, Immunology, Protein-protein interactions, Genetic studies, Scientific writing

Subjects Taught

Proteins, Cell Biology, Genetics, Immunology, Genetic Engineering and Biotechnology, Membrane Biology, Advanced Methodology, Gene Expression and Regulation, Ayurveda and Nutrition, Molecular Basis of Infectious Diseases

Innovation Project/Research Projects (Major Grants/Research Collaboration)

1. **2023-24: Project Investigator of project** "Comparative analysis of the effects of dietary supplements on *Drosophila melanogaster*". It is funded by Shivaji College, for a Minor Research Project under Intramural Scheme.
2. **2022-24: Project Investigator of the project:** Studying the impact of heat on the longevity and fecundity of *Drosophila melanogaster*". Sponsored by DBT under Star College Scheme, Department of Biochemistry, Shivaji College.
3. **2020-22: Co-investigator of the project:** "To assess cardiorespiratory functions & its correlation with Quetlet's Index and other relevant health parameters". Sponsored by DBT under Star College Scheme, Department of Biochemistry, Shivaji College.
4. **2020-22: Co-investigator of the project:** "Generation of Green Energy using a Microbial Fuel Cell". Sponsored by DBT under Star College Scheme, Department of Biochemistry, Shivaji College
5. **2015-16: Co-investigator of the project:** "Lifestyle Disorders: Etiology, Awareness & Management". Sponsored by the University of Delhi under the Innovation Project scheme [Total funding: 5 Lacs]
6. **2013-14: Co-investigator of the project:** "Biochemical assessment of toxic heavy metals in bacterial strain growing in the polluted water: A step towards Bioremediation". Sponsored by the University of Delhi under the Innovation Project scheme [Total funding: 5.5 Lacs]

Publications Profile (*Research Papers/Books*)

Book/Chapters Published

1. Darshan Malik, Nandita Narayanasamy, V A Pratyusha, **Jayita Thakur**, Nimisha Sinha. Textbook of Nutritional Biochemistry. 1st edition 2023. Published by Springer Verlag, Singapore. ISBN10:9811941491
2. Editor-in-Chief of **Sansmaran: A Decade of Reminiscence** published by Women Development Cell, Shivaji College, University of Delhi (Designed and Printed by Adhya Off set Printers, Noida, Uttar Pradesh), 2020, ISBN: 8190-1856-24.
3. **Jayita Thakur**, Darshan Malik, Sunita Singh & Shashi Nijhawan (2016) Chapter on “Wild Tigers: A battle for survival”, in the book on Wildlife Management: *Concept, Analysis and Conservation*, Pages 197-202, Edited by *Amita Saxena*, Daya Publishing House, New Delhi 110002, ISBN: 978-81-70305.
4. **Jayita Thakur** & Darshan Malik. Cyber Crime and Women - The Indian Perspective. Sanshrishti: Creator of Good Things (2015) ISBN978-81-86845-38-0
5. Darshan Malik, Promita Thakur, Sunita Singh, **Jayita Thakur** and Shashi Nijhawan Chapter 7: Defining Fashion: Examining Evolving Trends from A Socio-Historical Perspective. *Women Empowerment through Skill Development*. Editor: Amita Saxena Edition: 2015. Discovery Publishing House Pvt. Ltd., New Delhi (India). ISBN: 978-93-5056-756-2

Research Articles

1. Darshan Malik, **Jayita Thakur**, Ankita Dua, Jeetendra Aggarwal, Trivendra Chumbak, Shashi Nijhawan, Abhishek Kumar, Kamalpreet Kaur, Himanshi Aggarwal, Diksha Mehta, Hritika Verma, Subhasis, Sheetal, Aakanksha Singh, Akshay GM and Mithilesh Yadav. A Study of Lung Health Status and its Implications in Undergraduate Students (Accepted). DU Journal of Undergraduate Research and Innovation.
2. Darshan Malik, **Jayita Thakur**, Jeetendra Aggarwal, Ankita Dua, Shashi Nijhawan, Abhishek Kumar, Kamalpreet Kaur, Himanshi Aggarwal, Diksha Mehta, Hritika Verma, Subhasis, Sheetal, Aakanksha Singh, Akshay GM and Mithilesh Yadav. Quetelet's Index and Body Fat Percentage Assessment in Indian Undergraduate Students. DU Journal of Undergraduate Research and Innovation Volume 2, Issue 1 pp 56-69, 2016
3. Darshan Malik, **Jayita Thakur**, Ankita Dua, Jeetendra Aggarwal and Shashi Nijhawan Lifestyle disorders: A Case Study of Quetelet's Index and WHR in undergraduate students. (2016). Proceedings of International Conference on Public Health: Issues, Challenges, Opportunities, Prevention, Awareness. ISBN-978-93-85822-10-0; pp 232-236.
4. Malik D, Singh S, **Thakur J**, Kishore R, Kapur A, Nijhawan S; Microbial Fuel Cell:

Harnessing Bioenergy from Yamuna Water (2014) 3 (6): 1076-1081., Research Paper, International Journal of Science and Research.

5. Sunita Singh, Darshan Malik, **Jayita Thakur**, Amarjeet Kaur, Raj Kishore Singh and, Shashi Nijhawan. A Comparative Analysis of the Physico-chemical Properties and Heavy Metal Pollution in Three Major Rivers Across India. International Journal of Science and Research (2014) Vol. 3(8):1936-41.
6. Darshan Malik, **Jayita Thakur**, Sunita Singh, Raj Kishore Singh, Anita Kapur, Amarjeet Kaur, Shashi Nijhawan, Anil Kumar. Nanocomposite Electrode Microbial Fuel Cell: A Promising Technology for Enhanced Power Generation from Yamuna Water (2014), Research Paper, International Journal of Science and Research.

Review Papers

1. Darshan Malik, **Jayita Thakur**, Ankita Dua, Jeetendra Aggarwal & Shashi Nijhawan. Irregularities of the Ovarian Cycle in Young Females *Etiology, Awareness and Management*. International Journal of Biotechnology and Biomedical Sciences. 2(1):57-59, 2016 *pISSN 2454-4582*
2. Sunita Singh, Darshan Malik, **Jayita Thakur**, Amarjeet Kaur, Raj Kishore Singh and, Shashi Nijhawan. A Comparative Analysis of the Physico-chemical Properties and Heavy Metal Pollution In Three Major Rivers Across India. International Journal of Science and Research (2014) Vol. 3(8):1936-41
3. Darshan Malik, Sunita Singh, **Jayita Thakur**, Raj Kishore Singh, Amarjeet Kaur, and Shashi Nijhawan. Heavy Metal Pollution of the Yamuna River: An Introspection. *Int. J. Curr. Microbiol. App. Sci.* (2014) 3(10) 856-863
4. Malik, D., Singh, S., Kaur, A., **Thakur, J.** and Nijhawan, S. 2014. Oxidative Burst: Biochemical implications of metal toxicity. *Journal of Biotechnology and Crop Sciences*. Vol. 6(1) 25-40
5. **Jayita Thakur**, Darshan Malik, Shashi Nijhawan and Sunita Singh, Co- Author, Situating Women in modern Science: The India Scenario, Mini Review, *Journal of Academic Research for Multidisciplinary*.
6. Sunita Singh, Shashi Nijhawan, **Jayita Thakur**, Parul Malik, Darshan Malik. Identity Negotiation: The Paradigm Shift of the Indian Women. *Journal Of International Academic Research For Multidisciplinary*, Volume 2, Issue 7, August 2014; ISSN: 2320-5083

Conference/Seminar/Faculty Development Programme/Workshop

1. **Two Week (Online) Faculty Development Programme on “NEP 2020 Orientation & Sensitization Programme”** organized by Mahatma Hansraj Malaviya Mission Teacher Training Centre (MH-MMTTC), Hansraj College, University of Delhi, from **January 15 - 28, 2024.**
2. **Online one-week Faculty Development Programme on “Psychological Skills for Teaching and Learning”** organized by Teaching Learning Centre, Ramanujan College, University of Delhi, under the aegis of Pandit Madan Mohan Malaviya National Mission On Teachers And Teaching (PMMMNMSTT), Ministry of Education, from **15 - 21 July, 2023.**
3. **One week Online Faculty Development Programme on “Advanced Technologies in Life Sciences”** organized by CIIDRET, University of Delhi South Campus; DSSEED, University of Delhi and Mahatma Hansraj Malaviya Mission Teacher Training Centre (MH-MMTTC), Hansraj College, University of Delhi, from **February 6-11, 2023.**
4. **Course Workshop on “Ayurveda and Nutrition”** organized by Value Addition Courses Committee (University of Delhi) in collaboration with Mahatma Hansraj Faculty Development Centre, Hansraj College, University of Delhi, on **20th October 2022.**
5. **Online one-week Faculty Development Programme on “Systematic Literature Review and Meta-analysis”**, organized by Teaching Learning Centre, Ramanujan College, University of Delhi, under the aegis of Pandit Madan Mohan Malaviya National Mission On Teachers And Teaching (PMMMNMSTT), Ministry of Education, from **10 - 16 August, 2021.**
6. **Online one-week Faculty Development Programme on “Multimedia Tools for Teaching and Learning”**, organized by Teaching Learning Centre, Ramanujan College, University of Delhi, under the aegis of Pandit Madan Mohan Malaviya National Mission On Teachers And Teaching (PMMMNMSTT), Ministry of Education, from **22 - 28, July 2021.**
7. **Online one-week Faculty Development Programme on “Optimising ICT Tools for Higher Education”**, organized by Teaching Learning Centre, Ramanujan College, University of Delhi, under the aegis of Pandit Madan Mohan Malaviya National Mission On Teachers And Teaching (PMMMNMSTT), Ministry of Education, from **18th –26th June 2021.**
8. **Participant: International Summit on Women in STEM**, held at the India Habitat Centre, organized by the Department of Biotechnology, Government of India, **January 23-24, 2020**
9. **Orientation Course**, HRDC, Jawaharlal Nehru University (JNU), **5th -29th March 2019**
10. **Refresher Course in Life Sciences**, CPDHE, University of Delhi, **16th July to 7th August, 2018.**
11. **Faculty Development Program cum Workshop.** Climate across the curriculum: resources for integrating climate topics in discipline-specific teaching. Organised by Sri Venkateswara College, University of Delhi, in collaboration with IISER Pune. **13th**

and 14th October, 2018.

12. **Poster Presentation** on “Efficiency of plants in Combatting Air Pollution” at Workshop on Skill Development to Build a Clean India, held in Deshbandhu College in collaboration with CSR, Oil and Natural Gas Corporation Ltd., New Delhi, on **June 7-8, 2018**.
13. **Awareness Programme on Intellectual Property Rights**. Organised by Shivaji College in collaboration DIPP IPR Chair & Centre for Science Education and Communication held on 26th September, 2017.
14. **Paper Presentation** on: “Lifestyle disorders: A Case Study of Quetelet’s Index and WHR in undergraduate students”. **International Conference** on Public Health: Issues, Challenges, Opportunities, Prevention, Awareness (2016). Daulat Ram College, University of Delhi from January 15-16, 2016.
15. **Poster presentation:** Research Display at the Convention Centre, University of Delhi on 19th November, 2016.
16. **Poster Presentation:** 56th Annual Conference, 2015 07-10 December, 2015 Association of Microbiologists of India
17. **Paper Presentation** on: “Microbial Fuel Cell: Harnessing green energy from Yamuna water” at IC-Life 2014, **International Conference** on Life Sciences, Informatics, Food and environment held at Jaypee Institute of Information & Technology, Noida.
18. **Poster Presentation** on: “Epilepsy: Etiology and Symptoms, Management; focusing on the elderly patients” at Epicon-2014; **International conference** on Epilepsy held at Khalsa College, University of Delhi from Oct 30-Nov 1, 2014.
19. **Poster Presentation** on: "Pediatric Epilepsy: Etiology and symptoms" at Epicon-2014; **International conference** on Epilepsy held at Khalsa College, University of Delhi from Oct 30-Nov 1, 2014.
20. **Poster presentation in National Conference UMCCD-2014** on "Neurodegenerative Disorders: Molecular Mechanism of Alzheimer's Disease, A Risk Factor for Epileptic seizures?" at Shaheed Rajguru College of Applied Sciences for women from 29th -30th December, 2014.
21. **Training Programme** for Fluorescence-Activated Cell Sorting (FACS). (2010). Organized by the National Institute of Immunology.
22. **Participant:** International symposium on “Vaccines: from discovery to translation”.(2011). Organized by the National Institute of Immunology (New Delhi, India).
23. **Participant:** 5th Indo-Australian. Conference on Medical Biotechnology (2007). Organized by the National Institute of Immunology and The Australian High Commission. (New Delhi, India)
24. **Participant:** Human viruses and translational medicine (2007). Organized by the National Institute of Immunology (New Delhi, India).
25. **Hemophilia camp.** (2004) First-hand experience of handling hemophilia patients and their management. BHU, Varanasi.

Research Guidance (*Supervision of Doctoral Thesis/Dissertations*)

2023-24: Project Investigator of the project (ten students): “Comparative analysis of the effects of dietary supplements on *Drosophila melanogaster*”. It is funded by Shivaji College, for a Minor Research Project under Intramural Scheme.

2015-16: Co-investigator of the project (ten students): “Lifestyle Disorders: Etiology, Awareness & Management” Sponsored by the University of Delhi under the Innovation project scheme (Total Grant received: 5 Lacs), Shivaji College, University of Delhi, Ring Road, Raja Garden, New Delhi-110027

2013-14: Co-investigator of the project (ten students): “Biochemical assessment of toxic heavy metals in bacterial strain growing in the polluted water: A step towards Bioremediation”. Sponsored by the University of Delhi under the Innovation project scheme (Total Grant received: 5.5 Lacs), Shivaji College, University of Delhi, Ring Road, Raja Garden, New Delhi-110027

Awards and Distinctions

1. Awarded **Best Oral Presentation** at the International Conference on Public Health: Issues, challenges, opportunities, prevention, awareness (Public Health: 2016), Organized by Daulat Ram College, University of Delhi, New Delhi, India and Krishi Sanskriti, New Delhi, India on 15th and 16th January, 2016
2. Awarded **Certificate for project with Most Significant Societal Impact** during Research Display at the Convention Centre, University of Delhi on 19th November, 2016.
3. Awarded **Certificate of Appreciation** for project titled — Lifestyle disorders: Etiology, Awareness & Management by University of Delhi on 19th November, 2016.
4. Awarded **Best Display** under the theme “Environment” in Antardhwani, DU Innovation plaza, University of Delhi. (2015)
5. **1st Prize for best oral presentation** in IC-LIFE 2014. International Conference on Life Sciences, Informatics Food and Environment. Organised by Jaypee Institute of Information Technology. (New Delhi, India)
6. **1st Prize for poster presentation** in Epicon-2014. International Conference on Epilepsy: Opportunities and Challenges (2014). Sri Guru Teg Bahadur Khalsa College, University of Delhi. (New Delhi, India).
7. Qualified Fellowship Exam for **Junior Research Fellow** held by Council for Industrial & Scientific Research (CSIR), India.

Memberships

Member, Proteomics Society of India

Other Academic Activities

1. **Member, Organizing Committee, International Conference** on “Frontiers in Biochemistry and Biotechnology: Strategies to combat human diseases”, organized by Department of Biochemistry, Shivaji College; Department of Biochemistry, University of Delhi, South Campus, 12-13th February, 2020.
2. **Member, Organizing Committee, International Conference** on “Women’s Leadership for Global Peace and Prosperity”, organized by WDC, Shivaji College, January 9-10, 2020.
3. **Resource Person**, Inter-college Laboratory Skill Training Programme for Assistants/Attendants in the Chemical and Life Science Laboratories, under DBT’s Star College Scheme held on November 27-December 3, 2019, at Shivaji College, University of Delhi, Ring Road, Raja Garden, New Delhi-110027.
4. **Organizer**, Lecture cum Workshop on Foldscope Microscopy – Basics and Applications, held on September 20th, 2019, Shivaji College, University of Delhi, Ring Road, Raja Garden, New Delhi-110027
5. **Organiser**, one educational day trip of summer trainees to the lab of Dr. Surajit Sarkar, the Department of Neurobiology and Genetic Development, UDSC, on July 4th, 2019
6. **Organiser**, one day educational trip of summer trainees to the Botanical Garden of the Indian Republic, (BGIR), on July 16th, 2019.
7. **Organiser**, educational trip to Indian Council of Agricultural Research –Directorate of Mushroom Research, Solan, Himachal Pradesh, from October 2-4, 2019
8. **Resource person**, five-day “Intra College Laboratory Skill Training Programme for Assistant/Attendants in the Chemical and Life Sciences Laboratories” under DBT, Star College Scheme from May 20-24, 2019, at Shivaji College, University of Delhi, Ring Road, Raja Garden, New Delhi-110027
9. **Organiser**, National Symposium on Recent Advances in Biological Sciences, Organized by the Department of Biochemistry, Shivaji College, 10th April 2019.
10. **Chief Editor of Biokemi 2016, 2017 & 2018** (Annual edition of the Biochemistry Magazine, released by speakers of eminence), Shivaji College, University of Delhi.
11. **Organizer**, *Health Mela*, extended study based on Innovation Project SHC-311, in association with West District Legal Service Authority. 31st October, 2018.
12. **Convener of BioChaperones 2017** (Annual academic festival of the Department of Biochemistry), Shivaji College, University of Delhi.
13. **Organizer**, *Breathe Easy Camp* on World Asthma Day 3rd May, 2016
14. **Organizer**, *Health camp* celebrating World Health Day 7th April 2016
15. **Convener and Resource person** in —*Workshop for the Laboratory Staff of Chemical and Life Sciences*ll, Shivaji College, University of Delhi (31st May - 3rd June, 2016)
16. **Convener of BioFest 2016** (annual academic festival of the Department of Biochemistry), Shivaji College, University of Delhi.
17. **Resource person** in INSPIRE Science Camp, organized by Shivaji College, funded by the Department of Science and Technology, Government of India (14th-18th December, 2016).

18. **Resource Person** in —*Sharing Science, Rising Together - An Interdisciplinary Workshop for the Faculty of Science Departments of Shivaji College*, Shivaji College, University of Delhi (24th September and 1st October, 2016).
19. **Resource Person** at the “*National Symposium on Lifestyle Diseases: Understanding the molecular mechanisms*” Shivaji College, University of Delhi (28th & 29rd December 2016).
20. **Resource Persons** at for the INSPIRE Science Camp 2015 Science Camp, organized by Shivaji College, funded by the Department of Science and Technology, Government of India. (19th to 23rd December 2015).
21. **Organizer**, *Health camp* in Lifestyle Disorder September 28th, 2015 in Shivaji College, Delhi University.
22. **Organizer** of *Yamuna awareness camp*. June 19th, 2014, Department of Biochemistry, Shivaji College, Delhi University.

Cultural/Extracurricular Activities



Signature of Faculty Member