




Shivaji College Faculty Details Proforma

Title		First Name		Last Name	
	Dr.		Shvetambri		
Designation	Assistant Professor				
Address	Department of Biochemistry, Shivaji College, University of Delhi.				
Office Phone No.					
Residence					
Mobile					
Email	shvetambri@shivaji.du.ac.in				
Web-Page					
Educational Qualifications	M.Sc (Biochemistry) Ph.D.(Medical Biochemistry)				
Degree	University/Institute			Year	
Ph.D.	University of Delhi			2009	
M.Phil. / M.Tech.					
PG	Kurukshetra University			2001	
UG	Hindu Girls College Sonapat			1999	
Any Other Qualification	NET-CSIR and GATE Qualified			2001	
Career Profile					

I taught at Bhaskaracharya College of Applied Sciences University of Delhi, IIT Dwarka, Department of Biochemistry Kurukshetra University etc. My research interest is Dissecting out the mechanism of Nitrite reductase activity in mammalian cells. I love to be part of teaching and related activities.

Paper presented Abroad: 62nd Harden conference (Nitric Oxide a radical in control) Royal Agricultural College Cirencester U.K. (4th to 9th April, 2006).
Gordon Research Conference – Nitric Oxide Ventura U.S.A. 4th to 9th Feb.2007.
Gordon Research Conference – Angiogenesis Salve Regina University Rhode Island U.S.A. 2nd to 8th Aug., 2009.
Gordon Research Conference – Oxidative Stress and Disease Lucca Barga Italy 19th to 24th March, 2017.

Administrative Assignments

Contribution in College Committees (Shivaji College):

- Contributing as a Head of IQAC criterion VI for AQAR during 2023-25
- Contributing as a Convenor of Help desk committee for admissions 2024-25
- Contributing as a member of Academic Enrichment Committee, 2023-24
- Contributing as a member of Remedial Cell, 2023-24
- Contributing as a member of Woman Development Cell, 2023-25
- Contributing as a member of Member of Magazine committee 2023-25.

Contribution in College Committees (Bhaskaracharya College of Applied Sciences):

- Meditation Ambassador of the College under UGC initiative of Har Ghar Dhyam Campaign
- Convenor of eNewsLetter and Magazine Committee
- Convenor of Eco Club
- Convenor of Decoration Committee (Annual Day)
- Convenor of Decoration Committee NAAC Visit
- Coordinator of Environment Audit of College
- Member of NAAC Task Force Criterion VI Committee
- Member of Debate Club
- Member of Gandhian Study Center
- Member of Vivekananda Vichar Manch
- Member of Magazine committee
- Member of Dramatics and Fine Arts Club
- Member of Public Relations and advisory Committee
- Member of Woman Development Cell

Areas of Interest/Specialisation

Nitric Oxide Signalling in Mammalian Systems
Protein Modification and related physiological effects.

Subjects Taught

Biochemistry, Metabolism of carbohydrates, Bioenergetics, Gene Expression and Regulation, Clinical Biochemistry, Medical Lab Diagnostics, Genetics, Pharmacology, Genome Organization and Function, Molecular Basis of Infectious Diseases.

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

Publications Profile (Research Papers/Books)

Research Publications:

International Journal

- 1) **Shvetambri Arora**, Parag Vohra, Ajit Kumar, Yogesh K. Tyagi, Hanumantharao G. Raj, Daman Saluja, Luciano Saso and Virinder S. Parmar. *Calreticulin transacetylase catalyzed activation of rat tracheal smooth muscle cells nitric oxide synthase by Acetoxycoumarins* **Biol. Pharm. Bulletin** 31(4) 709—713 (2008). **Impact Factor: 1.81**
ISSN 0916-6158
doi: 10.1248/bpb.31.709
- 2) **Shvetambri Arora**, Yogesh K. Tyagi, Hanumantharao G. Raj, Virinder S. Parmar: *The role of calreticulin transacetylase in the activation of human platelet nitrite reductase by polyphenolic acetates.* **Biol. Pharm. Bulletin** 32(2) 161—165(2009). **Impact Factor: 1.81** **ISSN 0916-6158**
doi: 10.1248/bpb.32.161

- 3) Y. K. Tyagi, **Shvetambri Arora**, R. K. Gupta and H. G. Raj. *Synthesis of novel 4-methylcoumarins and comparative Specificities of substituted derivatives to acetoxy Drug: protein transacetylase*. **Sci. Pharm.** **76: 395-414** 2008. **ISSN 0036-8709**
<https://www.mdpi.com/2218-0532/76/3/395>
- 4) Ranju Kumari, Seema Bansal, **Shvetambri Arora** Calreticulin Transacylase: Genesis, Mechanism of action and Biological applications. **Biochimie** (92(9) 1173-1179) doi:10.1016/j.biochi.2010.01.016), 92(9) **1173-1179,2010. Impact Factor: 3.55 ISSN 0300-9084**
doi: 10.1016/j.biochi.2010.01.016
- 5) Hanumantharao G. Raj, Seema Bansal, **Shvetambri Arora**. *Prospects for the Development of Polyphenolic Acetate as the Potential Drug Candidate: A Review Compendium of bioactive natural products, Vol. 7: Structural modifications & drug development bioactive natural products*, Studium Press LLC, USA, (2010), **ISBN: 9781626990357**.
- 6) Usha Singh, Ajit Kumar, **Shvetambri Arora**, Hanumantharao Raj. *Calreticulin transacetylase catalyzed modification of the TNF- α mediated pathway in the human peripheral blood mononuclear cells by polyphenolic acetates*. **Chemico Biological Interactions** 185(3):263-70, 2010. **Impact Factor: 2.967 ISSN 0009-2797**, doi: 10.1016/j.cbi.2010.02.025
- 7) Y. K. Tyagi, **Shvetambri Arora**, H.G. Raj and R. K. Gupta. In vitro antioxidant activity evaluation of 4-methyl coumarin derivatives. **Asian jour. Chem** Vol. 22, No. 5 3622-3628(2010). **Impact Factor: 0.27 ISSN 0970-7077**
<http://www.asianjournalofchemistry.co.in>
- 8) R.Joshi, A. Kumar, **Shvetambri Arora**, H.G.Raj. Calreticulin Transacetylase mediated upregulation of thioredoxin by 7, 8-diacetoxy-4-methylcoumarin enhances the antioxidant potential and the expression of vascular endothelial growth factor in peripheral blood mononuclear cells. **Chemico Biological Interactions** 206 (2013) **327-336 Impact Factor: 2.967 ISSN 0009-2797**
doi: 10.1016/j.cbi.2013.09.017
- 9) Rini Joshi, **Shvetambri Arora**, Suvro Chatterji, Bilikere. S. Dwarakanath, Daman Saluja, Diwan S. Rawat, Ashok K. Prasad, Luciano Saso, and Hanumantharao G.Raj The Competence of 7,8-Diacetoxy-4-Methylcoumarin and Other Polyphenolic Acetates in Mitigating the Oxidative Stress and their Role in Angiogenesis **Current topics in medicinal chemistry**
Vol.15 No.2 179-186 (2015). **Impact Factor 3.453 ISSN1568-0266**
DOI [10.2174/1568026615666141209162446](https://doi.org/10.2174/1568026615666141209162446)
- 10) Anuradha Saha, **Shvetambri Tyagi**, Rajinder K.Gupta and Yogesh K.Tyagi. Guar gum based edible coating on cucumber (*Cucumis sativus* L.) **European journal of pharmaceutical and medical research**. ejpmr, 3(9), (2016) 558-570. **Impact Factor 3.628 ISSN 3294-3211**.
https://www.ejpmr.com/home/abstract_id/1519

- 11) Anuradha Saha, **Shvetambri** Tyagi, Rajinder K.Gupta and Yogesh K.Tyagi. Natural gums of Plant origin as Edible coatings for Food Industry Applications. **Critical Reviews in Biotechnology. Impact Factor 7.5 (Accepted 2016) ISSN: 1549-7801 (doi.org/10.1080/07388551.2017.12864490).**
- 12) Ashwani Kumar, **Shvetambri Tyagi**, Ram Singh and Yogesh K.Tyagi. Synthesis characterization and self assembly studies of dendron- based novel non ionic amphiphiles. **New Journal of Chemistry. 43 (2019) 1025-1031 Impact Factor 3.277 ISSN: 1144-0546 (DOI:10.1039/c8nj05143g).**

National Publications

- 13) V.K. Gupta, Devi Sigh and **Shvetambri**. *Physico chemical changes in Amla fruits during growth and development.* **Haryana J. Hort. Sci.**, 32 (1) (2003) 37-39. **ISSN 0970-2873**
- 14) Y. K. Tyagi, **Shvetambri**, R. K. Gupta and H. G. Raj. *Studies on the synthesis and antifungal activity evaluation of novel triazoles.* **Indian Journal of Physiology and allied sciences LXI**, No.1, 8-15 (2007). **ISSN 0367-8350**
- 15) Sujata Adhana, Rajnish Kumar, **Shvetambri Arora**, Uma Chaudhry and N. S. Abbas. Nutritional And Microbiota Analysis of Fresh Produce In Delhi and National Capital Region. **Asian Journal of Agriculture and Food Sciences** (ISSN: 2321 – 1571) Volume 8 – Issue 5, October 2020
- 16) J. Dinakaran, N. S. Abbas, **Shvetambri Arora**, Sujata Bhardwaj and Babeeta C. Kaula. Assessment of Heavy Metals in Ground Water of Different Locations of National Capital Region, Delhi, India. **ISSN: 0973-4929, Vol. 16, No. (1) 2021, Pg. 143-150.**

Conference/Seminar/Faculty Development Programme/Workshop

- Attended webinar on “**Sambhav**” **Sustainable advancements for Modernizing Bharat’s Food Processing Vision** organized by National Institute of Food Technology Entrepreneurship and Management, Kundli held on March 28, 2024.
- Participated and presented paper on **भारतीय विज्ञान और नाइट्रिक ऑक्साइड** in International Conference “Resurgent Bharat on the Global Canvas” organized by Shaikshik Foundation in Collaboration with NCPSL and Shivaji college, University of Delhi on 25-26 February; 2024.
- Attended online **Faculty Induction Training Programme** for Faculty in Universities/ Colleges/ Institutions of Higher Education organized by Teaching Learning Centre, Ramanujan College, University of Delhi under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching from January 22 - February 20, 2024.

- Attended Inaugural session of Faculty Induction Programme on “**National Education Policy 2020: Pedagogical Imperatives of higher education**” organized by University of Delhi on December 01, 2023.
- Attended One Day “**Short Term Course on Inclusion**” organized by Equal Opportunity cell and Committee for Inclusive Education Bhaskaracharya College of Applied Sciences, University of Delhi in Collaboration with Vision Divyang Foundation on May 19;2023.
- Attended a workshop on “**Ayurveda: wellness begins with understanding yourself**” organized by Phytomics the Botanical Society of Bhaskaracharya College of Applied Sciences; University of Delhi on February 22-23, 2022.
- Participated in workshop on “**Decoding Beams**” organized by Automation and Digitization committee of Bhaskaracharya College of Applied Sciences; University of Delhi on September 01, 2021.
- Participated in workshop on "**Designing and Development of e Resources for Teaching Learning**” organized by Rajdhani College University of Delhi during June 22-24, 2021.
- Attended webinar on "**Earth and Climate Change impacts: Can Carbon capture Utilization and Sequestration (CCUS) Address the Issues**” organized by Phytomics the Botanical Society of Bhaskaracharya College of Applied Sciences; University of Delhi on Earth Day April 22, 2021.
- Participated in workshop on “**Bioinformatics and Biostatistics: A Beginner's Guide**” organized by Shivaji College University of Delhi on January 16-20, 2021.
- Participated in workshop on “**Bioinformatics, sequence analysis to model building**” organized by Phytomics Society Department of Botany, Bhaskaracharya College of Applied Sciences; University of Delhi on November 21-22, 2020.
- Participated in workshop on “**Design of Experiments using statistical tools**” organized by Phytomics Society Department of Botany, Bhaskaracharya College of Applied Sciences; University of Delhi on November 6 - 7, 2020.
- Participated in workshop on “**Online licensing and Open Educational Resources**” organized by Automation and Digitization Committee; Bhaskaracharya College of Applied Sciences, University of Delhi on October 28, 2020.
- Participated in FDP on “**Biosafety, Bioethics and IPR**” organized by Department of Microbiology, Ram Lal Anand College; University of Delhi on August 24-28, 2020.
- Participated in FDP on “**Pedagogical Training for effective online Teaching and Learning**” organized by Deen Dyal Upadhaya College; University of Delhi in association with K.T.H.M. College Nashik on August 03 -10, 2020.
- Participated in “**National Science Series: Igniting Minds**” organized by Bhaskaracharya College of Applied Sciences; University of Delhi under the aegis of Star College Scheme, Department of Biotechnology Government of India and IQAC on August 04-06, 2020.

- Participated in National Workshop on “**Learning Management System - Moodle**” organized by Department of Educational Technology, SNDT Woman's University Mumbai; Teaching Learning Centre Pandit Madan Mohan Malviya National Mission on Teachers and Teaching (PMMMNM-TT-MHRD) on July 27 - August 02, 2020.
- Participated in FDP on “**Advance Concepts for Developing MOOCS**” organized by Teaching Learning Centre, Ramanujan College, University of Delhi, Pandit Madan Mohan Malviya National Mission on Teachers and Teaching (PMMMNM-TT-MHRD) on July 02-17, 2020.
- Participated in e FDP cum workshop on “**Waste to Bioenergy**” organized School of Basic Sciences and Research, Sharda University and Department of Agricultural Engineering, Aurangabad on June 28-July 04, 2020.
- Participated in FDP on “**Entrepreneurship, Incubation and Innovation**” organized by Teaching Learning Centre, Ramanujan College, University of Delhi, Pandit Madan Mohan Malviya National Mission on Teachers and Teaching (PMMMNM-TT-MHRD) on June 23-29, 2020.
- Participated in E- International symposium on “**Synthesis and Characterization of smart materials and their potential applications**” organized by University School of Basic and Applied Sciences, Guru Gobind Singh Indraprastha University. Dwarka Sector -16C Delhi on June 14-17, 2020.
- Participated in short term course on “**Trends and Prospects in Biorefinery**” organized by Department of Biotechnology; Dr. B.R. Ambedkar National Institute of Technology Jalandhar on June 10-14, 2020.
- Participated in short term course on “**Environment an intelligent recycling system**” organized by Govt. College for Girls, Sector -14 Gurugram on June 05-06, 2020.
- Participated in FDP on “**Managing Online Classes and Co-creating MOOCS:2.0**” organized by Teaching Learning Centre, Ramanujan College, University of Delhi, Pandit Madan Mohan Malviya National Mission on Teachers and Teaching (PMMMNM-TT-MHRD) on May 18-June 03, 2020.
- Participated in inter college FDP on “**Understanding Google Class Room**” organized by Automation and Digitization Committee; Bhaskaracharya College of Applied Sciences, University of Delhi on May13-14, 2020.
- Participated in FDP on “**Online Transaction of Courses with Moodle-LMS**” organized by Automation and Digitization Committee; Bhaskaracharya College of Applied Sciences, University of Delhi on May 8-10, 2020.
- Completed the course on “**Coronavirus Disease 2019**” by AACC Learning Lab for Laboratory Medicine, Harvard Medical School on March 31, 2020.
- Participated in Regional Workshop on “**Research based Pedagogical tools**” organised by centre of excellence in Science and Mathematics Education at Indian Institute of Science

education and Research (IISER) Pune (supported by MHRD, Govt. of India) funded by Department of Science and Technology (DST) Govt. of India, on February 28 - March 1, 2020.

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

Awards and Distinctions

Awarded CSIR Travel Award in 2007 and 2017

Awarded Gordon Research Scholarship from USA. (August 2009)

Awarded as the best student of the year in 1999 (Hindu Girls College, Sonipat, Haryana)

Invited in NCERT for developing Text Book on Pedagogy of science (Feb. 2011).

Memberships

Life Member Indian Science Congress Association

Other Academic Activities

- Contributed as External Counsellor for BSCBCH course at Bhaskaracharya College of Applied Sciences, University of Delhi center of Indira Gandhi National Open University.

Activities Organized:

- Contributed as a Convenor of workshop on “**Cardiovascular Diseases and Basic Life Support Training**” organized by Department of Biochemistry, Shivaji College University of Delhi in collaboration with Fortis Hospital Shalimar Bagh on April 03;2024.
- Contributed as a team member of the organizing team of International Conference “**Resurgent Bharat on the Global Canvas**” organized by Shaikshik Foundation in Collaboration with NCPSL and Shivaji college, University of Delhi on 25-26 February; 2024.
- Contributed as a Co-Coordinator of **Thalassemia Screening Camp and Awareness Drive** organized by Department of Biochemistry and Department of Zoology Shivaji College, University of Delhi in collaboration with State Blood Cell, Maulana Azad Medical college and BHOR- Living Humanly Foundation on February 09,2024.
- Contributed as an organizer in the Academic and Cultural Program “**Celebrating Indo-French relations in the wake of India’s G20 Presidency**” organized by Cultural Council University of Delhi with Nodal Centre Bhaskaracharya College of Applied Sciences, University of Delhi on September 26, 2023.
- Invited as a Panelist by Clean Air Asia.
- Coordinator of webinar on “**Cancer Awareness for Women**” organised by Department of Biomedical Sciences and Women Development Cell of Bhaskaracharya College of Applied Sciences, University of Delhi on February 22, 2021.
- Invited for discussion on “**Addressing Air Pollution in Hot-Spots of Delhi-Stakeholder Consultation**” organized by Clean Air Asia on October 28, 2020.
- Co-coordinator of webinar on “**Career Opportunities in Air force**” organised by Career Counselling Cell of Bhaskaracharya College of Applied Sciences, University of Delhi on August 27, 2021.
- Contributed as convener of International webinar “**Epidemiology, Diagnostics and Therapeutics Approaches to combat COVID19**” organized by Eco Club “Pranahi” of Bhaskaracharya College of Applied Sciences, University of Delhi on June 26, 2020.
- Contributed as convener of National webinar “**COVID19: Impact on Environment and Social Change**” organized as a part of World Environment Day Celebration by Eco Club “Pranahi” of Bhaskaracharya College of Applied Sciences, University of Delhi on June 05, 2020.

Cultural/Extracurricular Activities

- Contributed as a member of organizing committee of invited lecture by Shri Vaibhav Dange (Policy Expert) on the topic “कुशल प्रबंधन और तकनीकी परिवर्तन की मिसाल छत्रपति शिवाजी महाराज” organised by Department of Physics in collaboration with Department of Biochemistry, Life Sciences and Environmental Studies Shivaji College University of Delhi on April 10, 2024.
- Contributed as a team member of the organizing team of “**Shivraj 350 Celebrations**” organized by Shivaji College, University of Delhi for celebrating 350 years of Coronation of Chhatrapati Shivaji Maharaj on February 19;2024.
- Attended session on **संकल्प विकसित भारत@ 2047** organized by Value Added Course Committee, University of Delhi on February 19;2024 as representative member of Viksit Bharat Club Shivaji College, University of Delhi.
- Contributed as Coordinator and Resource Person of Short-term certificate course in **Environment Friendly Teaching Learning Practices** organised by Bhaskaracharya College of applied Sciences, University of Delhi.
- Organized international webinar on “**The End of the Future: Learning from the Climate Crisis**” by Prof. Vandana Singh Framingham State University USA, at Bhaskaracharya College of applied Sciences, University of Delhi.
- Organized **International Ozone Day Celebrations** at Bhaskaracharya College of applied Sciences, University of Delhi.
- Attended Work shop on Environmental Issues in Ministry of Environment, Delhi.
- Organised paper recycling workshops and various environment conscious activities viz. best out of waste competition, Eco friendly Diwali Celebrations, Cards and Collage making competitions at Bhaskaracharya College of applied Sciences, University of Delhi.
- Convener of “**Digital Nature an Online Photography Competition**” organized as a part of World Environment Day Celebration by Eco Club “Pranahi” of Bhaskaracharya College of Applied Sciences, University of Delhi on June 05, 2020