




Shivaji College Faculty Details Proforma

Title		First Name		Last Name		Photograph
Designation	ASSOCIATE PROFESSOR					
Address	GD-15, PITAM PURA, DELHI-10027					
Office Phone No.	-					
Residence	-					
Mobile	-					
Email	renubaweja@shivaji.du.ac.in					
Web-Page						
Educational Qualifications	B.Sc., M.Sc., PhD.					
Degree	University/Institute					Year
Ph.D.	University of Delhi					2007
M.Phil./M.Tech.	NA					
PG	M.Sc. Biochemistry, University of Delhi					2000
UG	B.Sc. (H) Biochemistry University of Delhi					1998
Any Other Qualification	NA					
Career Profile						
<ul style="list-style-type: none"> December 2007-till date, Associate Professor, Department of Biochemistry, Shivaji College, University of Delhi December 2014-December 2022, Assistant Professor, Department of Biochemistry, Shivaji College, University of Delhi July 2007–December 2014, Assistant Professor, Department of Biomedical Science, Bhaskaracharya College of Applied Sciences, University of Delhi June 2006-July 2007, Lecturer, Amity Institute of Biotechnology, Amity University, Noida. 4. 						

- July 2005-March 2006 Guest Lecturer, Department of Biochemistry, Daulat Ram College, Delhi University of Delhi
- July 2004-March 2005, Guest Lecturer, Department of Biochemistry, Daulat Ram College, Delhi university

Administrative Assignments

Seving as:

Programe Co-ordinator, DBT-Star College Scheme
 Coordinator, Criteria 3, NAAC Committee
 Member, College Laboratory Audit committee
 Member, Institution Ethical Committee
 Member, College Research Cell

Also Served as:

Teacger-In-Charge, Department of Biochemistry, 2015-16 ans 2022-23 respectively
 Convener, Department of Biochemistry, DBT-Star College Scheme, 2019-2022
 Convener, Implementation of NEP 2020, 2021-2023
 Co-convener, Admission Committee, 2016-18, 2020-21
 Coordinator, Criteria 3, NAAC Committee, 2020-2023
 Member, Editorial Board, Annual report, University of Delhi since 2018
 Member, Center For Promotion of Inclusivity, 2021-2023
 Member, Website Committee, 2021-2023
 Member, Purchase Committee, 2017-19
 Member, College Laboratory Audit committee, 2015-2017, 2020-21
 Member, Discipline Committee, 2019-20
 Member, Fee Concession Committee, 2015-17
 Member, Eco Club, 2015-17
 Member, Screening Committee, Appointment of teachers in Biochemistry department of colleges of University of Delhi, 2017-18
 Member, Screening Committee, Appointment of teachers in Biochemistry department of colleges of University of Delhi, 2019-20

Areas of Interest/Specialisation

BIOCHEMISTRY
MICROBIOLOGY
ANTIMICROBIAL RESISTANCE
INFECTIOUS DISEASES

Subjects Taught

BIOMOLECULES
CELL BIOLOGY
MOLECULAR BASIS OF INFECTIOUS DISEASES
HUMAN PHYSIOLOGY
HORMONE BIOCHEMISTRY AND FUNCTIONS
MICROBIOLOGY

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

- Principal Investigator of Minor Research Intramural Project, Shivaji College, entitled “Disseminating Antimicrobial Resistance in Food Chain using Blended Learning Approach” since March 2022-March 2023
- Project Investigator of DBT-Star College Scheme sponsored minor project entitled “Study of variation in Hematological parameters and its correlation with diseases among youth” since May 2020-May 2022
- Co-investigator of the project titled “Assessment of Brominated Flame Retardants in Mobile phones/Electronic Gadgets, their consumption Pattern in North India Region and Carbon Foot Prints from Electronic Waste” funded by University of Delhi under DU Innovation Project (2013-14).
- Co-investigator of the project titled “Industrial Waste Utilization for Microbial Fuel Production” funded by University of Delhi under DU Innovation Project (2015-16)

Publications Profile (*Research Papers/Books*)

- Ravi R, Zeyaulah M, Ghosh S, Khan Warsi M, **Baweja R**, AlShahrani AM, Mishra A, Ahmad R. Use of gold nanoparticle-silibinin conjugates: A novel approach against lung cancer cells. *Frontiers in Chemistry*. 2022 Oct 13;10.
- Sharma M, Vavilala P, Singh A, **Baweja R**. Effect of milk and mustard oil consumption: A case study on youth in Delhi-NCR. *Nutrition and Health*. 2023 Mar;29 (1):25-9.
- **Baweja RB**, Zaman MS, Mattoo AR, Sharma K, Tripathi V, Aggarwal A, Dubey GP, Kurupati RK, Ganguli M, Chaudhury NK, Sen S. Properties of Bacillus anthracis spores prepared under various environmental conditions. *Archives of Microbiology*. 2008 Jan;189:71-9.
- Dubey GP, Narayan A, Mattoo AR, Singh GP, Kurupati RK, Zaman MS, Aggarwal A, **Baweja RB**, Basu-Modak S, Singh Y. Comparative genomic study of spo0E family genes and elucidation of the role of Spo0E in Bacillus anthracis. *Archives of microbiology*. 2009 Mar;191:241-53.
- Sharma K, Gupta M, Pathak M, Gupta N, Koul A, Sarangi S, **Baweja R**, Singh Y. Transcriptional control of the mycobacterial embCAB operon by PknH through a regulatory protein, EmbR, in vivo. *Journal of Bacteriology*. 2006 Apr 15;188 (8):2936-44.
- **Renu Baweja**. Covid 19 Vaccination and Challenges: An Indian Perspective. *India Calling*. (Atriennial newsletter in Thai and English). Centre for Bharat Studies, Research Institute for Languages and Cultures of Asia, Mahidol University. Vol. XII (Special Issue) 2022. pp 45-47. ISSN 1906-9758
- **Baweja et.al**. Analysis of food industrial effluent for the production of microbial fuel cell. *Proceedings of the National Seminar on water and air quality in urban ecosystem*. 2016. Pp 18-20.
- **Renu Baweja**. Impact of diet on fertility: Reproductive Health in India: Concern and Awareness. Baweja V; Mishra R. 2017. ISBN: 978-8-19346-343-7. Enriched Publication Pvt.Ltd.
- Geeta Bhatt, Manoj Knanna, BalramPani and **Renu Baweja**. Awareness and sensitivity of mobile phone consumers on Electronic Wastes in Delhi-NCR region. Book: Sustainable smart cities in India: Challenges and Future Perspective. Sharma P; Rajput S. 2017. ISBN: 978-3- 319-47144-0. Springer International Publishing AG
- **Renu Baweja**, Shashi Nijhawan and Darshan Malik. Fighting for survival: Greater

one-horned Indian Rhinoceros, Book: Wildlife Management: Concept, Analysis and Conservation. Dr. Amita Saxena. Daya Publishing House. ISBN 978-93-5124-792-0 (Hardbound). ISBN 978-93-86071-33-0 (International Edition), January 2017

- Ajeet Prajapati, Praveen, Nikena Khwairakpam, Manoj Khanna, Balram Pani, **Baweja R.** Mobile Phones: Contributors Towards Global warming. *Proceeding of National Conference on Striving & Thriving Towards Diffusion of Student-driven Research in Science and Technology for Inspired Learning*. October 16-17, 2014. ISSN: 978-81-7273-958-4.
- Sharma, S., Chandra, H., **Baweja, R.** and W. N. Gade. Proteomic approach for the evaluation of *Pseudomonas* response to metal stress when grown in Luria Broth media. *Trends Clin. Biochem. Lab. Medicine*. (2003): 427-33
- Author of lesson Nucleic Acid, Paper IV, Fundamentals of Plant Biochemistry, Semester- 2, DC-I, B.Sc. (H) Botany (FYUP) under the Open Educational Resource by University of Delhi.

Conference/Seminar/Faculty Development Programme/Workshop

Participation in Orientation/Refresher course/Workshop

- Completed two week Refresher Course in “Life Sciences” organized by TLC Ramanujan College, University of Delhi under MHRD-PMNMNMTT from October 28-November 11, 2022
- Completed one week Faculty Development Program on “National Education Policy 2020” Re-Envisioning Higher Education in India” organized by TLC Ramanujan College, University of Delhi under MHRD-PMNMNMTT from August 30-September 07 2021
- Completed one week Faculty Development Program on “Systemic Literature Review and Meta-Analysis” organized by TLC Ramanujan College, University of Delhi under MHRD-PMNMNMTT from May 06-12, 2021
- Completed one week Faculty Development Program on “Development of Teacher’s e-Kit and MOOCs in four quadrant format of e-Content organized by GAD-TLC, S.G.T.B, Khalsa College, University of Delhi under PMNMNMTT of MHRD from September 12-20, 2020
- Participated in one-week online FDP on “ICT enhanced teaching learning and creating MOOCs”, organized by Shivaji College in collaboration with Ramanujan College from August 18-25, 2020.
- Participated in National one week online Faculty Training Program on “Pedagogical Training on effective online teaching and learning” organized by Deen Dayal Updhyaya College, University of Delhi and K.T.H.M. college NASHIK from August 03-10, 2020
- Participated in an online five day workshop on “Moodle: An online Learning management System” organized by the Department of Biochemistry, held from July 01-July 05, 2020 on Google Meet
- Completed two week online workshop on “Comprehensive e-learning and e-training guide for administrative work” from May 25-June 05, 2020 organized by TLC Ramanujan College, University of Delhi under MHRD-PMNMNMTT
- Participated in 24th Refresher Course in Life Sciences and Biotechnology, organized by the UGC-Human Resource Development Centre, Jawaharlal Nehru University, from August 19-30, 2019
- Participated in 3-week Refresher Course in Summer School (ID),

organized by the UGC-Human Resource Development Centre, Centre for Professional Development in Higher Education, University of Delhi, Delhi, from September 05-25, 2017

- Participated in 4-week Orientation Programme (OR-86), organized by UGC-Human Resource Development Centre, Centre for Professional Development in Higher Education, University of Delhi, Delhi, from November 25, 2016-December 23, 2016

Coordinator/Convener/Resource person/Member

- **Coordinator**, DBT-Star College Scheme, Shivaji College, University of Delhi since May 2022
- **Convener**, DBT-Star College Scheme, Department of Biochemistry, Shivaji College, University of Delhi from May 2019-April 2022
- **Faculty Coordinator**, MANAV Scientific Reading and Comprehension Self-Assessment Modules (for students) conducted by Project MANAV-The Human Atlas Initiative during September-October 2021
- **Member**, Organising Committee of 1st Undergraduate Workshop on “Effective education for Long Term Sustainable Solutions to the problems of Air Pollution” organized by Delhi Effective Education Pedagogy Cluster (DEEP-C)-DRIIV held on virtual platform from August 02-06, 2021
- **Member**, Organising Committee of ISW-2020 International Summit on Women in STEM- “Visualizing the Future: New Skylines” organized by Department of Biotechnology, Government of India and International Centre for Genetic Engineering and Biotechnology held at India Habitat Centre, Lodhi Road, Delhi on January 23-24, 2020
- **Member**, Editorial Board, Annual report, University of Delhi since 2018
- **Member**, Organising Committee of the International Conference on “Frontiers in Biochemistry and Biotechnology: Strategies to combat Human Diseases”, organized by the Department of Biochemistry, Shivaji College and South Campus, University of Delhi, held on February 12-13, 2020
- **Resource person** of Laboratory Skill Training Programme for Assistants/Attendants in the Chemical and Life Science Laboratories, under DBT’s Star College Scheme held on May 20- 24, 2019 at Shivaji College, University of Delhi, Ring Road, Raja Garden, New Delhi-110027.
- **Member**, Organising committee of the National Symposium on Recent Advances in Biological Sciences organised by Department of Biochemistry, Shivaji College, University of Delhi on 10th April 2019.
- **Member and Resource Person** of the INSPIRE Science Camp held on July 16-20, 2018 at Shivaji College, University of Delhi, Ring Road, Raja Garden, New Delhi-110027.
- **Convener** “National Symposium on Lifestyle Disorders: Understanding the Molecular Mechanisms” held on January 28-29, 2016 at Shivaji College, University of Delhi, Raja Garden, Delhi-110027.
- **Member and Resource Person** of the INSPIRE Science Camp held on December 19-23, 2015 at Shivaji College, University of Delhi, Ring Road, Raja Garden, New Delhi-110027.
- **Co-Coordinator** “National Symposium on Infectious Diseases: Advancement in diagnosis, therapeutics and vaccines” held on March 20-21, 2014 at Baskaracharya College of Applied Sciences, University of Delhi, Dwarka, New Delhi-110075
- **Member and Resource Person** of the INSPIRE Science Camp organized six times at Baskaracharya College of Applied Sciences, University of Delhi, Dwarka,

New Delhi- 110075 during the period of 2010-2013.

- **Member** of Organizing Committee in 'Better Process Control School for Manufacturers of Low Acid Canned and Acidified Foods' held on March 1- 5, 2011 in Bhaskaracharya College of Applied Sciences, University of Delhi, Dwarka, New Delhi-110075
- **Member** of the Organizing Committee of the workshop on 'Basic Molecular Biology Techniques' held on December 12-16, 2011 in Bhaskaracharya College of Applied Sciences, University of Delhi, Dwarka, New Delhi-110075
- **Co-Convener** of the National Symposium on 'Infectious Diseases: Basic and Applied Research' organized on February 3, 2010 held at Bhaskaracharya College of Applied Sciences, University of Delhi, Dwarka, New Delhi-110075.
- **Member** of the Organizing Committee of the Symposium on 'Bioinformatics: An in-silico approach to Biology' held on December 5, 2008 in Bhaskaracharya College of Applied Sciences, University of Delhi, Dwarka, New Delhi-110075.

Presentation in conferences/symposium/workshop

- Oral Presentation on "Microbes in sustainable development" during 6th International Conference of Indian Network for Soil Contamination Research held from November 15-18, 2021
- Poster Presentation on "Women in STEM" The struggle beyond the statistics" in ISW-2020 International Summit on Women in STEM-"Visualizing the Future: New Skylines" on January 23-24, 2020 held at India Habitat Centre, Lodhi Road, Delhi.
- Poster Presentation on "E-Waste: A threat to environment" in National Symposium on Recent Advances in Biological Sciences organised by Department of Biochemistry, Shivaji College, University of Delhi on 10th April 2019.
- Oral presentation on "E Waste: Composition, Awareness and Management" in Two Days National Workshop On "Skill Development to Build a Clean India" in Deshbandhu College, University of Delhi on June 7-8, 2018.
- Presented Poster titled "Identification of microbes isolated from dairy industrial effluent" in National Conference on Combating Industrial Pollution for Sustainable Environment organised by Gargi College, University of Delhi on September 22-23 Sept 2016
- Presented Paper titled "Dairy Effluent-A source of the production of Bioenergy" in 2nd International Conference on Public Health: Issues, Challenges, Opportunities, Prevention, Awareness organized by Krishi Sanskriti, New Delhi, India on May 21, 2016
- Presented Poster titled "Bioelectricity production from food industry effluent" in National Seminar on Water and Air Quality in Urban Ecosystem organised by Eco- Club, Shivaji College on March 22, 2016
- Presented a research paper titled "Mobile ecosystem in Delhi-NCR- A perspective of consumer awareness towards E-waste at 5th International symposium on Fusion of Science and Technology (ISFT-2016), held in New Delhi, India from January 18-22, 2016
- Presented Poster titled "Characterization of waste water effluent from dairy industry for energy generation" in International Conference on Public Health: Issues, Challenges, Opportunities, Prevention, Awareness organized by Daulat Ram College, University of Delhi and Krishi Sanskriti, New Delhi, India from January 15-16, 2016.
- Presented a poster titled "Awareness and sensitivity of mobile phone consumers on E-waste" in Delhi-NCR in one day National Conference on

“Smart cities-Challenges and Vision Ahead” organized by Department of Geography, Shaheed Bhagat Singh College, University of Delhi on April 6, 2015

Conferences/Symposium/Workshop attended

- 2nd Undergraduate teachers’ workshop on “Understanding Public Health from an Interdisciplinary Perspective” organized by Delhi Effective Education Pedagogy Cluster(DEEP-C)-DRIIV held on virtual platform from October 07-12, 2021
- National Workshop on Recombinant Proteins: Expression, Purification, Characterization organized by Centre for Innovation in Infectious Disease and Research, Education and Training(CIIDRET), University of Delhi South Campus, New Delhi from July 2-16, 2019
- Faculty Development Program cum Workshop on Climate Across the Curriculum: Resources for Integrating Climate Topics in Discipline-Specific Teaching organised by IQAC, Sri Venketeswara College, University of Delhi, in collaboration with TROPICUS, a climate education project funded by the Indian Council for Science (ICSU) & IISER, Pune on October 13-14, 2018
- Awareness Programme on Intellectual Property Rights organized by Shivaji College, University of Delhi in collaboration with DIPP IPR CHAIR & Centre for Science Education and Communication on September 26, 2017
- Participated in a workshop on Zebra fish as animal model organized by the Department of Biochemistry and Zoology, Daulat Ram College, University of Delhi from March 15th-17th, 2017.
- Training the Trainers: IPR Workshop, organized by IPR CHAIR & CIC-CSEC in collaboration with Ramjas College, University of Delhi on August 10-11, 2016
- Faculty Development Program in Research Project Management Proposal to publication and beyond, organised by CIC-Centre for Science Education and Communication, University of Delhi on July 19, 2016
- 9th annual symposium on frontiers in biomedical research organized by Dr. B. R. Ambedkar Centre for Biomedical Research, University of Delhi, Delhi-110007, India on April 14-16, 2014
- Training the Trainers: IPR Workshop, organized by IPR CHAIR & CIC-CSEC in collaboration with Ramjas College, University of Delhi on August 10-11, 2016
- Faculty Development Program in Research Project Management Proposal to publication and beyond, organised by CIC-Centre for Science Education and Communication, University of Delhi on July 19, 2016
- 9th annual symposium on frontiers in biomedical research organized by Dr. B. R. Ambedkar Centre for Biomedical Research, University of Delhi, Delhi-110007, India on April 14-16, 2014

Awards and Distinctions

- Secured **2nd** position in Poster Presentation titled “ E-Waste: A threat to environment” in National Symposium on Recent Advances in Biological Sciences organised by Department of Biochemistry, Shivaji College, University of Delhi on 10th April 2019.
- **Certificate of Appreciation** for **Best Display** award under the theme: Health Concern during Antardhwani 2015, Innovation Plaza, Academic and Cultural festival, organized by University of Delhi from February 20-22, 2015
- **Best Poster** Award in 4th annual symposium on frontiers in biomedical research organized by Dr. B. R. Ambedkar Center for Biomedical Research, University of Delhi, Delhi- 110007, India on April 14-16, 2007
- **Qualified CSIR-UGC National Eligibility Test** for lectureship and Junior Research Fellowship.
- University Merit scholarship M.Sc. (Biochemistry) from Delhi University.

Memberships

Lifetime Member: Proteomics Society (Hyderabad, India).
Life Member: Indian Network For Soil Contamination Research

Renu

Signature of Faculty Member