

Dr Archana Sahay

1. Designation: Assistant Professor
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5. Date of Birth: 11.09.1978
6. Category Gen/SC/ST/OBC: Gen
7. Academic Qualification:

Sr. No.	Examination	Year of passing	Principal / Special subject/s	School / College / Institute	Board / University	Class/ Grade	% of marks
1	HSC	1993	All	MLB School	MP Board	First	72%
2	HSSC	1995	Biology	Malwa Girls HS School	MP Board	First	61%
3.	B.Sc.	1999	Biology	Govt Girls Degree College	DAVV, Indore	First	63
4	M.Sc.	2001	Biochemistry	School of Biochemistry	of DAVV, Indore	First	79%
5	Ph.D	2007	Life Science	School of Life Science	of DAVV, Indore		

9. Ph.D:

Thesis title: Role of Anions in the regulation of photosynthetic process in spinach thylakoids.

Guide's Name: Prof. Anjana Jajoo

Institute/Organization/University: Devi Ahilya University, Indore

Year of Award: 2007

Research Experience

- **2002 – 2007:** Ph. D in Life Science from School of Life Sciences, Indore , under the supervision of Dr. Anjana Jajoo and Prof. Sudhakar Bharti.
Work as Junior Research Fellow in DST Sponsored Project.
Project Title: “Role of anions in the regulation of photosynthetic process in Thylakoid membranes”.
- **2008 – 2010:** CSIR RA in Department of Bioinformatics under the supervision of Dr. Madhvi Shakya, Maulana Azad National Institute of Technology, Bhopal, August 2008 – 2010.
Project Title: “Identification of medicinal important proteins from spinach”.

Teaching Experience:

2007 – 2008: Assistant Lecturer in Department of Life Science, Extol Institute of Management, Bhopal.

Course: B.Sc. & M.Sc. Biotechnology

Teaching Subjects: Microbiology, Biotechnology.

2017 – 2018: Assistant Professor (**Approved**) in Department of Biochemistry, Hislop College, Nagpur.

Course: M.Sc. Biochemistry

Teaching Subjects: Immunology, Molecular Biology, Plant Physiology, Research Methodology

2018 – 2021: Assistant professor in Department of Biotechnology, Dr. D. Y. Patil ACS College, Pimpri, Pune.

Teaching Subjects: B.Sc: Genetics, Chemistry, Metabolism, Biochemical Biophysical Techniques, Biodiversity

M.Sc. : Genetics and Immnology, Bioinformatics.

2021- onwards: Assistant Professor in the Department of Biochemistry, Rajiv Gandhi Institute of Information Technology and Biotechnology, Bharati Vidyapeeth (Deemed to be University), Pune – 411046.

Teaching Subjects: Fundamentals in Chemistry and Biochemistry, Biochemistry, Medical Biochemistry and Drug Discovery, Analytical Techniques.

Work experience (in chronological order)

S.No.	Positions held	Name of the Institute	Period	
			From	To
1.	Assistant professor	Extol College, Bhopal	2007	2008
2.	CSIR RA	Maulana Azad National Institute of Technology, Bhopal	2008	2010
3.	Assistant professor	Hislop College, Nagpur	2017	2018
4.	Assistant professor	Dr D Y Patil ACS College, Pimpri, Pune	2018	2021
5	Assistant professor	Rajiv Gandhi Institute of Information Technology and Biotechnology, Bharati Vidyapeeth (Deemed to be University), Pune – 411046.	2021	onwards

Professional Recognition/ Award/ Prize/ Certificate:

S.No.	Name of Award	Awarding Agency	Year
1.	CSIR Research Associate	CSIR	2008
2.	Won second prize in Oral presentation	Modern College of Arts Science and Commerce, Pune.	2020

3.	Won second prize in Poster Presentation	RJSPM, ACS College, Pune	2020
4.	One day workshop	Department of Microbiology, SPPU, Pune	2019
5.	Poster presentation	Dr D Y Patil ACS College, Pimpri, Pune	2019
6.	Poster Presentation	Devi Ahilya University, Indore	2009
7.	One month training programme Won second prize in Oral presentation	Department of Bioinformatics, Moulana Azad National Institute of technology, Bhopal	2008
8.	Oral presentation	M.P. Science Congress 2007	2007
9.	One week workshop	Bioinformatics Sub – center, D.A.V.V, Indore	2003
10	Team Owner and Reviewer	MANAV Project, IISER	2021

Publications (List of papers published in SCI Journals, in year wise descending order).

S.No	Author	Title	Name of Journal	Volume	Page	Year
1	<u>Archna Sahay</u> , Anjana Jajoo, Pooja Singh, Sudhakar Bharti	Nitrite regulates distribution of excitation energy between the two photosystems by causing state transition.	Plant Physiology & Biochemistry	44	7-12	2006
2.	<u>Archna Sahay</u> , Anjana Jajoo, Sudhakar Bharti	A thermoluminescence study of the effects of nitrite on	Luminescence	21	143-147	2006

		photosystem II in spinach thylakoids.				
3.	Pooja Singh, Anjana Jajoo, <u>Archna Sahay</u> , Sudhakar Bharti	Relation between the mode of binding of nitrite and the energy distribution between the two photosystems.	Physiologia Plantarum	129	447 – 454	2007
4	Anjana Jajoo, <u>Archna Sahay</u> , Pooja Singh, Sonal Mathur, Sergei K. Zharmukhamedov, Vyacheslav V, Klimov, Suleyman I. Allakhverdiev, Sudhakar Bharti	Elucidating the site of action of oxalate in photosynthetic electron transport chain in spinach thylakoids.	Photosynthesis Research	97	177 – 184	2008
5.	<u>Archna Sahay</u> , Madhvi Shakya	Structure prediction of dihydroflavonol 4- reductase and anthocyanadin synthase from spinach	Bioinformation	5(6)	259-263	2010
6.	<u>Archna Sahay</u> , Madhvi Shakya	In silico analysis and homology modeling of antioxidant protein of spinach.	Journal of Proteomics & Bioinformatics	3(5)	148-154	2010

7.	<u>Archna Sahay,</u> Anil Piprodhe and Mashitha Pise	<i>In Silico</i> Analysis and Homology Modeling of strictosidine synthase involved in Alkaloid biosynthesis in Catharanthus roseus	Journal of Genetic Engineering and Biotechnology	18:44	1-6	2020
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Books/Reports/Chapters/General articles:

S.No	Title	Author's Name	Year of Publication	Publisher	ISBN
1	In silico Analysis and Homology Modelling of Antioxidant Proteins of Spinach	<u>Archna Sahay,</u> Madhvi Shakya	2018	OMICS	
2	Immunology	<u>Dr. Archna Sahay</u> Imran Patel	2021	Vision Publication	978-93-90646-51-7
3	Molecular Biology	<u>Dr. Archna Sahay, Imran Patel</u>	2021	Vision Publication	978-93-90646-22-7

Joined students for Dissertation

S.No.	Name of student	Class	Year	Organization
1.	Hemant Bawankar	M.Sc	2018	Hislop College
2.	Anil Piprodhe	M.Sc	2018	Hislop College

3.	Shubham Nalawade	B.Sc.	2020	Dr D Y Patil ACS College
4.	Pooja Gade	M.Sc	2021	Dr D Y Patil ACS College
5.	Mrinalini	M.Sc	2021	Dr D Y Patil ACS College
6.	Vaishnavi Iyer	M.Sc	2021	Dr D Y Patil ACS College
7.	Jessica	M.Sc	2021	Dr D Y Patil ACS College

Seminar/Workshop attended:

- Attended one day workshop organized by Department of Microbiology, SPPU, Pune on “Women Entrepreneurs in Science and Technology” in 2019-20.
- Poster presentation in State level Conference IAAB-2019 organized by Department of Biotechnology, Dr D Y Patil ACS College, Pune.
- Attended webinar on Effective Teaching Skill, organized by Department of Psychology, Dr D Y Patil ACS College, Pune.
- Attended webinar on Intellectual Property Right organized by Department of Chemistry, Department of Microbiology, Dr D Y Patil ACS College, Pune (27.10.20).
- Participated in event organized by Department of Botany, Telangana University on 28 February, 2021.
- Attended International Webinar on “World Wetland Day 2021”.
- Attended National Webinar on Post Covid-19: Challenges and Opportunities in Higher Education.
- Attended Webinar organized by IISER, Pune on “How to read Scientific Literature” and successfully completed English Proficiency Test.

FDP

1. Attended FDP organized by Dr. D Y Patil ACS College, Pimpri, Pune, 2020.
2. Attended FDP on Pedagogy and Teaching-learning in the current Scenario of Covid-19, Pandemic, organized by Dr D Y Patil Biotechnology and Bioinformatics Institute, Tathawade, Pune, 2021.
3. Attended One Week FDP on I.C.T Tools for Effective, Teaching Learning. (July2020)

Reviwer:

- Hislopia Journal
- Photosynthetica
- Journal of Fisheries and Aquaculture Research
- Journal of Applied Life Sciences International

Program Hosted for the Department

- Poster presentation, Oral presentation and Speech Competition.
- Yoga Activity Program (January 2021).
- Birth Anniversary Celebration

E-Content at SPPU site

Date	Title	Class	Link
29.4.2020	Genetic Disease (PPT)	M.Sc.	http://econtent.unipune.ac.in:8080/xmlui/handle/123456789/6314
29.4.2020	Question Bank Plant Development	B.Sc. SY	http://econtent.unipune.ac.in:8080/xmlui/handle/123456789/6434
1.05.2020	Question Bank Genetic engineering	M.Sc.	http://econtent.unipune.ac.in:8080/xmlui/handle/123456789/6432
1.05.2020	Question Bank Metabolic Pathway	B.Sc. SY	http://econtent.unipune.ac.in:8080/xmlui/handle/123456789/6316