

# **Curriculum Vitae**

**Dr. Rohini Ravindra Shivsharan**

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## **1. Academic Record:**

<b>Sr. No.</b>	<b>Exam Passed</b>	<b>Exam Body</b>	<b>Year of Passing</b>	<b>Percentage obtained</b>	<b>Class obtained</b>	<b>Subject of Specialization</b>
1.	PhD	Punyashlok Ahilyadevi Holkar Solapur University, Solapur.	2022	-	-	Microbiology
2.	SET	Savitribai Phule Pune University, Pune.	Exam 2013 Result 2014	56.57%	-	Life Science
3.	M.Sc.	Pune University, Pune.	April 2010	64.55%	First Class	Microbiology
4.	B.Sc.	Solapur University, Solapur.	March 2008	77.80%	First Class with Distinction	Microbiology
5.	H.S.C.	Pune Divisional Board	March 2005	72.67%	First Class	PCMB
6.	S.S.C.	Pune Divisional Board	March 2003	80.13%	First Class with Distinction	Eng, Mar, Hin, Maths, Science, Social Sciences.

## 2. Work Experience:

Name of Institution	Position held	Nature of Appointment	Tenure of appointment		Pay Scale
			From	To	
V. G. Shivdare College of Arts, Science & Commerce, Solapur.	Assistant Professor	Contract Basis	06 July 2011	30 April 2012	Rs. 10,000/- per month
D.B.F. Dayanand College, Arts and Science, Solapur	Assistant Professor	CHB (UGC approved)	26 July 2018	30 April 2019	As per UGC regulation act 2018
D.B.F. Dayanand College, Arts and Science, Solapur	Assistant Professor	Contract Basis	01 August 2019	30 April 2020	Rs. 8,000/- per month
D.B.F. Dayanand College, Arts and Science, Solapur	Assistant Professor	Contract Basis	01 August 2020	30 April 2020	Rs. 8,000/- per month
D.B.F. Dayanand College, Arts and Science, Solapur	Assistant Professor	CHB (UGC approved)	21 Dec 2020	21 August 2021	As per UGC regulation act 2018
D.B.F. Dayanand College, Arts and Science, Solapur	Assistant Professor	CHB (UGC approved)	10 Dec 2022	31 July 2023	As per UGC regulation act 2018
Punyashlok Ahilyadevi Holkar Solapur University, Solapur	Assistant Professor	Contract Basis	21 August 2023	Currently working	30,000/- per month

## 3. PhD Thesis title:

“Studies on Bioethanol production: Improvement of ethanol production by enhancement of biomass, nutrient supplementation and mutagenesis of native *Saccharomyces cerevisiae*”.

#### 4. Orientation / Refresher Course:

- **National Level one week online Faculty Development Programme** on 26/04/2021 to **Research Methodology** organised by Amar Seva Mandal's Kamal Nehru 01/05/2021 Mahavidyalaya, Nagpur.

#### 5. BOOK PUBLICATION:

- **Environmental Studies**, Book Rivers Publication 1<sup>st</sup> edition 8<sup>th</sup> January 2023, Pages 289 ISBN: 978-93-5515-647-1.

#### 6. Research publications details:

Sr. No.	Name of Author	Year of Publication	Title of Paper	Name of Journal	Volume No.	Page No.
1.	Rohini Shivsharan and D. G. Kadam	2022	Optimization of nutrient supplementation for enhancement of biomass and ethanol yield from molasses using <i>S. cerevisiae</i> RGK6 strain.	International Journal of Scientific Research in Science and Technology	9 (3)	876-886
2.	Rohini Shivsharan and D. G. Kadam	2019	Improvement of Local <i>Saccharomyces cerevisiae</i> strain by Mutagenesis for Enhanced Production of Bioethanol.	International Journal of Pharmacy and Biological Sciences	9 (2)	159-167
3.	Rohini Shivsharan and D. G. Kadam	2018	Bioethanol Production: Optimization of parameters for ethanol production by using <i>Saccharomyces cerevisiae</i>	DAV International journal of Science	7 (1)	1-9

## 7. Conferences / Seminars/ Workshops attended

Date	Conferences / Seminars/ Workshops attended	Organised by	Title of Poster Presented
25 <sup>th</sup> August 2018	One Day Workshop on “Teacher Competency Building Programme (TCBP 2018).”	D. B. F. Dayanand College of Arts and Science, Solapur.	Attended
29 <sup>th</sup> Dec 2018	National Seminar on “Intellectual Property Rights” on 29 <sup>th</sup> Dec 2018	D. B. F. Dayanand College of Arts and Science, Solapur.	Attended
3 <sup>rd</sup> and 4 <sup>th</sup> Feb 2017	International Conference on Current Trends in Bioenergy and its Applications (ICCTBA 2017)	Modern College of Arts , Science and Commerce Shivajinagar Pune-5	Studies on Bioethanol Production using <i>Saccharomyces cerevisiae</i> and Strain improvement to increase Ethanol yield.
2 <sup>nd</sup> Feb 2018	National Conference on “Microbial Technology for Sustainable Development”. (MTSD 2018)	Department of Microbiology, DBF Dayanand College, Solapur	Bioethanol Production: Optimization of parameters for ethanol production by using <i>Saccharomyces cerevisiae</i> .
19 <sup>th</sup> January 2019	National Conference on “Contemporary Research in Life Sciences and Cancer Biology”	V. G. Shivdare College of Arts, Commerce and Science, Solapur.	Attended
7Feb-9Feb 2019	International conference on “Empowering society with microbial Technology (ICESMT-2019)”	Tuljaram Chaturchand College of Arts, Science and Commerce, Baramati - 413 102, Pune	Improvement of local <i>Saccharomyces cerevisiae</i> strain by mutagenesis for enhanced production of bioethanol.
10 <sup>th</sup> and 11 <sup>th</sup> January 2020	National Conference on “Biodiversity and Conservation of Wetlands.”	Department of Botany, DBF Dayanand College, Solapur	Bioethanol: An Alternative Fuel for reducing environmental pollution.

6 <sup>th</sup> and 7 <sup>th</sup> January 2022	International Conference on “Emerging Perspectives in Biotechnology.”	V. G. Shivdare College of Arts, Commerce and Science, Solapur.	Strain improvement by UV radiation and protoplast fusion for enhanced biomass and bioethanol production using <i>S. cerevisiae</i> RGK6 strain.
9 <sup>th</sup> and 10 <sup>th</sup> March 2022	International Conference on “Advances in Science and Technology (ICAST 2022).”	Rajarshi Chhatrapati Shahu College, Kolhapur	Response Surface Methodological Optimization of Physicochemical parameters for enhanced bioethanol production using <i>S. cerevisiae</i> RGK6 strain.

## 8. Membership of Professional Bodies

- Life Member of Microbiologists Society, India.

## 9. Participation in Various duties of University:

Sr. No.	Nature of duty	Year
1.	Attended Paper checking work of M.Sc. Biotechnology (Immunology and Fermentation Technology).	2011
2.	Attended Paper setting work of M.Sc. I Sem I Biotechnology (Paper1: Cell Biology, Microbiology and Virology).	2012
3.	Worked as a Practical examiner at M.Sc. II Sem IV Microbiology	2022

4.	Worked as a Practical examiner at M.Sc. I Sem II Microbiology	2022
5.	Worked as a Practical examiner at B.Sc. I Microbiology	2022
6.	Worked as a Practical examiner at B.Sc. III Sem VI Microbiology	2022
7.	Delivered a lecture on “ <i>Listeria monocytogenes</i> ” at University Level Ph.D. Coursework workshop on paper III in Microbiology.	18 <sup>th</sup> June 2022
8.	Worked as a Practical examiner at B.Sc. I Microbiology	2023
9.	Worked as a Practical examiner at B.Sc. III Sem VI Microbiology	2023

## **10. Practical skills:**

### **1. Microbiology and Fermentation technology**

Isolation and screening of microorganisms from various habitats, Maintenance and preservation of microbial and fungal cultures, Microbial strain improvement by UV-mutation, Growth curve studies, antimicrobial assay, Optimization physical and nutritional parameters for fermentations by Response Surface Methodology (RSM).

### **2. Molecular biology**

Isolation of DNA, RNA, Agarose gel electrophoresis.

### **3. Enzymology**

Isolation of extracellular and intracellular enzyme from microbial strains, Development of enzyme assays, Ion exchange chromatography, Gel filtration chromatography, Native and SDS PAGE Electrophoresis.

#### 4. Bioinformatics

Phylogenetic analysis by MEGA 5, and NCBI tools, BLAST, FASTA, PDB search.

#### 11. Instrumentation handling:

1. Lab scale fermenter / Bioreactor (Sartorius, Biostat B+, Germany).
2. UV-Vis spectrophotometer (Shimadzu).
3. Ultra-cooling centrifuge (BioEra).
4. Electrophoresis Unit.

#### 12. Awards and Honors:

- Received Certificate of Mentor at 15<sup>th</sup> Maharashtra State Inter University Research Convention for Mentoring Post graduate students' level at Aavishkar 2023.
- **First prize** in oral presentation at International Conference on Advance in Science and Technology (ICAST 2022), organised by Rajarshi Chhatrapati Shahu College, Kolhapur on 9<sup>th</sup> and 10<sup>th</sup> March 2022.
- **First prize** in oral presentation at International Conference on “Emerging Perspectives in Biotechnology”, V.G. Shivdare College of Arts and Science, Solapur, on 6<sup>th</sup> and 7<sup>th</sup> January 2022.
- Awarded Academic prize for standing **First in the Dayanand College** of Arts and Science, Solapur at B.Sc. Part-I Examination held in 2006.
- Awarded Academic prize for standing **First in Microbiology** at Dayanand College of Arts and Science, Solapur at B.Sc. Part-II Examination held in 2007.
- Awarded Academic prize for standing **First in Microbiology** at Dayanand College of Arts and Science, Solapur at B.Sc. Part-III Examination held in 2008.
- Successfully completed the course on **Pharmaceutical Techniques** conducted at The Department of Microbiology, Modern College, Shivajinagar, Pune-05: Awarded Certificate for successful completion of the course.
- Participated in **Avishkar 2009 Zonal level Research Project Competition** held at H.V. Desai College, Pune.
- Passed **Swami Vivekananda Scholarship Examination** with A+ held by Swami Vivekananda School Scholarship Pratishthan, Pune in the year 2002-2003.

**13. Personal Details:**

- Date of Birth: 8th September 1987.
- Nationality: Indian.
- Place of Birth: Solapur.
- Marital Status: Married

I declare that all the information given above is correct to the best of my knowledge.

**Dr. Rohini Ravindra Shivsharan.**