

# CURRICULUM VITAE

## DR. UMESH YEDUBA WAGH PGDFSC. M.Sc. PH.D. (BIOCHEMISTRY)

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1. Name: DR. UMESH YEDUBA WAGH

2. Date of Birth :20/05/1985

### 3. Address for Communication:

Dr. Umesh Yeduba Wagh,  
Department of Biochemistry,  
Dr. Babasaheb Ambedkar Marathwada University,  
Aurangabad.  
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### Permanent Address:

At post Jalgaon sapkal

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Dist.: Jalna

City: Jalna Pin: 431112

Phone No.: 9112780075

### 4. Details of University/ Institution Studied (10<sup>th</sup> onwards):

Degree / Examination Passed	Subjects/Area of specialization	Institution	Year of Passing	Average Marks/C GPA	Class
Class 10 <sup>th</sup>	Marathi, Hindi, English, Math's., Science and S.S.	CBSE Board, New Delhi	2002	62.80%	First Class
Class 12 <sup>th</sup>	Physics, Chemistry and Biology.	State Board M.H	2005	59.19%	Second class
B.Sc.	Microbiology, Chemistry and Zoology.	S. R. T. M. U, Nanded.	2008	62.18%	First Class
PGDFSC	Forensic Science and Related Law	Govt. Institute of Forensic Science Aurangabad, Dr. B. A. M. U, Aurangabad.	2011	66.50%	First Class
M.Sc.	Biochemistry	Dept. of Biochemistry, Dr. B. A. M. U, Aurangabad.	2013	68.70%	First Class
Ph.D.	Biochemistry (Topic: "Effect of Heavy Metal Pollution on Some wild Freshwater Fishes of the Region")	Dept. of Biochemistry, Dr. B. A. M. U, Aurangabad.	Oct, 2021	Awarded	First Class

## 5. Additional Qualifying Examination(s) Passed:

- Selected as Research/Project fellow by **SERB-DBT** on Major research project sanctioned to Dr. Y.K. Khillare, Department of Zoology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad-431004, Maharashtra, India. For the period 2014-2017.
- Awarded with Rajiv Gandhi National Fellowship, Award letter number and date or UGC circular number and date: F- 117.1/2016-17/RGNF-2015-17-SC-MAH-27269 (SA-III/Website).
- Qualified Ph.D. entrance examination conducted by Savitribai Phule Pune University, pune for the years-2013-14, 2014-15 and 2015-16.
- Qualified Ph.D. entrance examination conducted by Rashtrasant Tukadogi Maharaj Nagpur University, Nagpur for the year-2013.

## Computer Skills:

Certificate Course of MSCIT (Maharashtra State Certificate in Information Technology).  
Basic Computer skills, Internet tools etc.

## 6. Experience (Teaching/Research/Industrial etc.):

DEPARTMENT OF BIOCHEMISTRY, DR. BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.

- Assistant professor on CHB (PG) Aug, 2023 to 30 June 2024.
- Assistant professor on fix pay (PG) - Sept, 2022 to June, 2023.
- Assistant professor on CHB (PG) - Dec, 2021 to July-2022.

### WORKING COMMITTEES AND CURRICULUM ACTIVITIES:

- As a member of Admission Committee for M.Sc.-Biochemistry, during the academic year- 2021-22, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
- Paper-setter and/Examiner- Post-graduate in the subject of Biochemistry, Department of University, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
- Paper-setter and/Examiner-Graduate level in the subject of Biochemistry, Dr.Babasaheb Ambedkar Marathwada University, Aurangabad.
- Paper Assessment and Modulation-For Graduate and Post-Graduate level in the subject of Biochemistry, Dr.Babasaheb Ambedkar Marathwada University, Aurangabad.

DIRECTORATE OF FORENSIC SCIENCE LABORATORIES, REGIONAL FORENSIC SCIENCE LABORATORY, AURANGABAD.

Assistant Chemical Analyser Group B-Gazetted Officer- 05/01/2018 to 02/12/2018.

- Crime Scene Management, Crime Case Examination.
- Bestow expert testimony/de'facto in the courts of law on subject matter under the provision of I.P.C and Cr.P.C. and Indian Evidence Act/Information Technology Act, R&D activities on Forensic Activities.
- Imparting training and assistant different investigating agencies in their respective field of forensic specialization/forensic science labs and other organizations.
- Analysis of Biological samples like Blood, Semen, Hair, and Bite marks etc. in criminal cases.
- Developing and monitoring the change control process.
- Develops standards of performance and performance evaluations Implement and maintain strong workflow processes and systems for good lab management to include workload, cycle, and productivity assessments Oversees management of daily laboratory resource allocations.
- Supporting Test Method validation and Transfer from internal or external labs.

DEPARTMENT OF ZOOLOGY, DR.BABASAHEB AMBEDKAR MARATHWADA UNIVERSITY, AURANGABAD.

Research/Project Fellow -05/04/2014 to 30/12/2017

Major research project: SERB-DBT (File number: SB/EMEQ-321/2013) on the topic "Impairment in reproductive behavior in fresh water fishes due to heavy metal pollution in Maharashtra".

- Collection and analysis of water, soil, sediment and biota samples for the presence of Heavy metals. Generation and comparison of reports
- Assisting on projects, to deliver successful activations. Following Instructions & Procedures
- Managing project data library and project and product data Project costing/budget management
- Reviewing the academic literature to identify and summarize important and relevant findings.
- Performing the analysis of soil and water samples for physico-chemical parameter with special references to Heavy metal analysis.
- Analysis of Fish samples for the presence of heavy metals.
- Analysis of data and information and provide to management to aid in decision making on the development of new laboratory developed tests.

## 7. Patent:

**"Novel Oral Strip or Thin Film of Diclofenac Sodium and Process for Manufacturing the Same."**- Germany Patent No.202022100544. Date of Patent: February 16, 2022.

## 8. Book Chapter:

**Book Title-“Environmental Impact Assessment”** based on syllabus of Savitribai Phule Pune University, Pune. T.Y.B.Sc. (Zoology), Chapter 7th-Stakeholders in EIA Process, Gaurang Publishing Globalize Pvt. Ltd. **ISBN No.978-93-93789-26-6. Dr. Umesh Yeduba Wagh**, Department of Biochemistry, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad-431004, India.

## 9. Research Publications:

- Concentration of Heavy Metals in Tissue Samples of *Catla catla* from Aurangabad Region, Maharashtra. © August 2020| IJIRT | Volume 7 Issue 3 | ISSN: 2349-6002. **Mr. Umesh Y. Wagh**, Mr. Vikram D. More, Dr. Vikas R. Shende, Department of Biochemistry, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad-431004, India.
- Effect of Heavy Metal on *Staphylococcus Vitulinus 2019Y* Strain Using Well Diffusion Method. © September 2020| IJIRT | Volume 7 Issue 4 | ISSN: 2349-6002; Mr. Vikram D. More , **Mr. Umesh Y. Wagh** , Dr. Vikas R. Shende Department of Biochemistry, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad-431004, India.
- Heavy metal pollution and its impact on fresh Water fishes of the region. World Journal Of Pharmacy And Pharmaceutical Sciences, 08 March 2017 Volume 6, Issue 04, 991-1002, ISSN 2278 – 4357. **Mr. Umesh Y. Wagh**, Mr. Kiran Khillare, Dr. Y. K. Khillare. Department of Zoology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad-431004(MS).
- Effect of chromium on reproductive system of fresh water fish *labeo rohita*. World Journal of Pharmacy and Pharmaceutical Sciences, 08 March 2017 Volume 6, ISSN 2278 – 4357. **Mr. Umesh Y. Wagh**, Mr. Kiran Khillare, Dr. Y. K. Khillare. Department of Zoology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad-431004(MS).
- Bioaccumulation of heavy metals in fresh water fishes from Aurangabad district, Maharashtra. World Journal Of Pharmacy And Pharmaceutical Sciences, 10 Aug 2015, Volume 4, Issue 09, 511-520, ISSN 2278 – 4357. **Mr. Umesh Y. Wagh**, Mr. Kiran Khillare, Dr. Y. K. Khillare. Department of Zoology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad-431004(MS).
- Heavy metal level in surface water of Aurangabad city, Maharashtra, India. World Journal Of

Pharmacy And Pharmaceutical Sciences, 10 Aug 2015, Volume 4, Issue 09, 531-540, ISSN 2278 – 4357. **Mr. Umesh Y. Wagh**, Mr. Kiran Khillare, Dr. Y. K. Khillare. Department of Zoology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad-431004(MS).

- Accumulative level of heavy metals in riverine water of Marathwada region. World Journal Of Pharmacy And Pharmaceutical Sciences, 08 March 2017, Volume 6, Issue 04, 980-990, ISSN 2278 – 4357. **Mr. Umesh Y. Wagh**, Mr. Kiran Khillare, Dr. Y. K. Khillare. Department of Zoology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad-431004(MS).
- Histological changes in gonads of fresh water fishes due to heavy metal pollution, World Journal of Pharmacy and Pharmaceutical Sciences, 05 June 2017, Volume 6, Issue 7, 601-609, ISSN 2278 – 4357. **Mr. Umesh Y. Wagh**, Mr. Kiran Khillare, Dr. Y. K. Khillare. Department of Zoology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad-431004(MS).
- Assessment of Antibacterial Properties of Fish Mucus, World Journal of Pharmacy and Pharmaceutical Sciences, 25 April 2016, Volume 5, Issue 5, 666-672, ISSN 2278 – 4357. D.K. Hiwarale, Kiran Khillare, Dr. Y. K. Khillare, **Mr. Umesh Y. Wagh**, Jyostna Sawant, Mandakini Magare. Department of Zoology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad-431004(MS).

#### 10. Scientific Projects Completed:

- Worked as a Research/Project fellow on a Major research project by **SERB-DBT (File number: SB/EMEQ- 321/2013)** on the topic “**Impairment in reproductive behavior in fresh water fishes due to heavy metal pollution in Maharashtra**”. Under the guidance of Dr. Y.K. Khillare, Department of Zoology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad-431004, Maharashtra, India. 2014-2017.
- Project Successfully Completed on The Topic “**Identification and Characterization of Protease Enzyme and to Check its Inhibitory Activity by using various Plant Extract**” During M.Sc. Biochemistry-2013.
- Project Successfully Completed on The Topic “**Lip Print Analysis as a Tool to Establish the Identity of an Individual**” During PG Diploma in Forensic Science and related Law-2011.

#### 11. Participated in National\International Conferences\ Seminar:

- Paper presented in International conference on **Ecosystem Response to Global Changes and Their Impact (ERGECI- 2017)**. Indore M.P.
- Paper presented in 104<sup>th</sup> **Indian Science Congress held at S. V. University, Tirupati in 2017**
- Paper presented in International Conference on Environmental sustainability for food Security (**ENFOSE-2016**)-Sree Ayyappa College for Women, Kanyakumari Dist, South India.
- Oral presentation in the **International symposium on Aquaculture and fisheries** as a part of the international conference on **Environmental Sustainability for Food Security (ENFOSE-2016)** at fisheries College and Research Institute, Thoothukudi, India.
- Awarded First prize for Poster Presentation in **National Conference on Green Studies and Eco-studies at Deogiri College, Aurangabad- 2013**.
- International Symposium on **Proteomics Beyond ID's and Fourth Annual meeting of Proteomics Society of India- 2012 At CSIR NCL Pune**.
- National Conference on **Emerging Trends in Forensic science at Aurangabad-2011**.
- Poster Presented in **Avishkar Research Festival held at Nashik-2011**.

## 12. Other relevant information:

### **Practical skills**

#### **Microbiology techniques**

Isolation of microorganisms from soil, water, air etc. Microbiology Laboratory techniques.

#### **Recombinant DNA Technology**

Isolation of bacterial chromosomal and plasmid DNA

DNA extraction

Gel electrophoresis

Poly Acrylamide gel electrophoresis (PAGE)

#### **Biochemical Techniques**

Analysis of Water, Soil and Biota for the presence of Heavy metals

Separation of amino acids by paper and thin layer chromatograph

Gel- Electrophoresis

Polymerase Chain Reaction (PCR)

#### **Instrumentation**

Atomic Absorption Spectroscopy (AAS, Thermo fisher model- AA-303) operation, maintenance, preparation and analysis of samples.

Thin Layer Chromatography

Electrophoresis

Polymerase Chain Reaction (PCR)

Microscope Olympus CX41

Automatic Tissue processor

Basic Microbiology and Biochemistry Laboratory techniques.

## **12. Other Personal Information:**

Nationality	<b>Indian</b>
Gender	<b>Male</b>
Marital status	<b>Married</b>
Father's/Spouse's Name	<b>Shradha</b>
Category	<b>SC</b>

## **References:**

### **Dr. Vikas R. Shende**

Assistant Professor

Department of Biochemistry,

Dr. Babasaheb Ambedkar Marathwada University, Aurangabad-431004.

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### **Dr. Manohar V. Padul**

HOD and Associate Professor

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15, Madam Cama Road, Mumbai-400032. India.

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I hereby declare that all the information provided above is accurate to the best of my knowledge.

Date:

Place:

Signature  
(Dr. Umesh Yeduba Wagh)