

Dr. Apurva Dadasaheb Patil [*M.Sc. Ph.D. (Biochemistry)*]
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EDUCATION:

Institution	Degree	Subject	Percentage	Class	Year
Shivaji University, Kolhapur	Ph.D.	Biochemistry	-	-	2017-2022
Shivaji University, Kolhapur	M.Sc.	Biochemistry	67.75 %	I st Class	2014-2016
Shivaji University, Kolhapur	B.Sc.	Biotechnology (Entire)	79.37 %	I st Class with Distinction	2011-2014

RESEARCH SKILLS:

- [1]. Microbiological samples handling, aseptic culture techniques and microscopic skills.
- [2]. Fermentation tactics
- [3]. Bioprocess optimization
- [4]. Downstream processing
- [5]. Bioactive compounds profiling
- [6]. Freeze drying techniques
- [7]. Handling cell-cultures, proteins, peptides and other bio-molecules
- [8]. General computer proficiency (MS office and basic computational programs)
- [9]. UV Probe version 2.43 software for UV-Vis Spectrophotometer (Shimadzu Corporation, Japan)

RESEARCH EXPERIENCE

- [1]. Ph.D. completed (1st July 2017 to 15th September 2022)
Thesis title: “Exploring anticancer potential of microbial bioactive compounds”
Under guidance of: Dr. (Mrs.) P.B. Dandge, Biochemistry Department, Shivaji University, Kolhapur
- [2]. Worked as **CMSRF-2019 Research Fellow (17th September 2019 to 30th June 2022)**
Funded by Chhatrapati Shahu Maharaj Research, Training and Human Development Institute (SARTHI), (An Autonomous Institute of Govt. of Maharashtra), Pune
- [3]. Worked as **RGSTC Project Fellow (3rd August 2019 to 16th September 2019)**
Title of Project: “Development of Food Product (Instant Food Drink) from Fish Waste Enriched with Collagen”
Principle Investigator: Dr. (Mrs.) P.B. Dandge, Department of Biochemistry, Shivaji University, Kolhapur

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- [4]. Worked as a **RUSA Research Project Fellow (16th August 2016 to 31st March 2017)**
Title of Project: “Stop Diabetes-Development of Nutraceutical Product for Prevention of Progression of Prediabetes to Diabetes”
Principle Investigator: Prof. (Mrs.) A.U. Arvindekar, Department of Biochemistry, Shivaji University, Kolhapur
- [5]. M.Sc. Research Project in academic year 2015-2016
Title of Project: “Optimized production, partial purification and potential applications of cholesterol oxidase from isolated bacterial species”
Under guidance of: Dr. (Mrs.) P. B. Dandge, Associate Professor, Biochemistry Department, Shivaji University, Kolhapur
- [6]. B.Sc. Research Project in academic year 2013-2014
Title of Project: “Isolation and formulation of effective microbial consortia and its application in food waste treatment”
Under guidance of: Ms. F. R. Inamdar, Lecturer, Biotechnology Department, Smt. Kasturbai Walchand College, Sangli.
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PROFESSIONAL RECOGNITION, AWARDS, FELLOWSHIPS RECEIVED:

- [1]. Awarded Chief Minister Special Research Fellowship (CMSRF-2019) by Chhatrapati Shahu Maharaj Research, Training and Human Development Institute (SARTHI), Pune from 17th September 2019 to 30th June 2022 at Department of Biochemistry, Shivaji University, Kolhapur.
- [2]. Awarded Rajiv Gandhi Science and Technology Commission (RGSTC) Fellowship from 3rd August 2019 to 16th September 2019 at Department of Biochemistry, Shivaji University, Kolhapur.
- [3]. Awarded Rashtriya Uchchattar Shiksha Abhiyan (RUSA) Fellowship from 16th August 2016 to 31st March 2017 at Department of Biochemistry, Shivaji University, Kolhapur.
- [4]. Won 1st prize for poster presentation on two days National Conference on “Innovative Research in Chemical Sciences” (IRCS) sponsored by UGC-SAP and hosted by Department of Chemistry, Shivaji University, Kolhapur on 1st and 2nd February 2017.
- [5]. Secured 10th Rank in B.Sc. (Biotech-Entire) examination held by Shivaji University, Kolhapur in April-2014.
- [6]. Won 2nd prize for Poster Presentation on one day state level seminar on “Emerging Trends in Chemistry through Green Approach” (ETCTGA-2013) organized by Department of Chemistry, Smt. Kasturbai Walchand College, Sangli on 1st October 2013.
- [7]. Won 1st prize in model presentation in the programme “Micro-2012” organized by Microbial Information Centre and Research Organization of the Department of Microbiology, Miraj Mahavidyalaya, Miraj, on 7th January 2012.
- [8]. Won 3rd prize in “AVISHKAR 2011-12” Research Project competition at District level held at Walchand College of Engineering Sangli, in the Engineering and Technology Category, on 25th November 2011.
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PROFESSIONAL TRAININGS

- [1]. Participated in the workshop on “Awareness about sharing R&D resources through I-STEM portal” organized by SAIF-DST centre, Shivaji University, Kolhapur held on 5th August 2022.
- [2]. Successfully completed the workshop & hands-on training on BIO-ATOMIC FORCE MICROSCOPY (BIO-AFM) organized by SAIF (CFC), Shivaji University, Kolhapur held during 4th - 5th January 2022 under the Maharashtra Academy of Science and STRIDE (Scheme for Trans-disciplinary Research for India’s Developing Economy) programme.
- [3]. Successfully completed “Cancer Biology” certification course training of 14 days in October 2020 held by Biotechnika Info Labs Pvt. Ltd., Bangalore.
- [4]. Participated in one week “National Level Online Short Term Training Program on Research Methodology” organized by the Faculty of Humanities and Science, Adayalampattu Phase II campus, Dr. MGR Educational and Research Institute University, Maduravoyal, Chennai-600 095. Tamilnadu, India from 20th to 27th July 2020.
- [5]. Participated in 1-Week Hands-on Workshop on Human/Cancer Cell Culture Techniques and MTT Assay at International Centre for Stem Cells, Cancer and Biotechnology (ICSCCB), Pune from 1st January to 7th January 2020.
- [6]. Attended one day workshop on “Advanced Tools in Cellular Analysis and Analytical Technology” sponsored by Thermo Fisher Scientific India Pvt. Ltd. 6th April 2018.
- [7]. Attended in two days’ workshop on “Solutions from Synthesis to Characterization” organized by School of Nanoscience and Biotechnology, Shivaji University, Kolhapur in association with Anton Paar India Pvt. Ltd., on 26th and 27th March 2018.
- [8]. Participated in one day workshop on “Intellectual Property Rights (IPR)-2018” organized by Intellectual Property Rights Cell (IPRC), Shivaji University, Kolhapur, on 10th March 2018.
- [9]. Attended “One day symposium on Medical Biotechnology and Stem cell Technology: A new avenue to success” organized by Centre for Interdisciplinary Research (CIR), D.Y. Patil Education Society, (Deemed to be University), Kolhapur, on 9th February 2018.
- [10]. Participated in one day workshop on “Scientific Writing” organized by the Research Colloquium of Shivaji University, Kolhapur, on 31st January 2018.
- [11]. Participated in two days’ “Hands on Training Programme on GC-MS/MS” organized by University Science Instrumentation Centre USIC (CFC), Shivaji University, Kolhapur in collaboration with Toshvin Analytical Ltd. Mumbai, on 20th and 21st November 2017.
- [12]. Participated in one day workshop on “Formulation of Research Proposal for the RGSTC Scheme “Assistance for S and T Applications through University System”, implemented by Rajiv Gandhi Science and Technology Commission (RGSTC), Government of Maharashtra, conducted by Shivaji University, Kolhapur, on 6th May 2017.
- [13]. Participated in Global Initiative of Academic Networks (GIAN) Programme on Cancer and Neurological Technology from Basic to Translational and chemical Sciences, organized by School of Nanoscience and Technology, Shivaji University, Kolhapur, held on 14th to 18th November 2016.

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- [14]. Participated in one day seminar on career opportunities in Bhabha Atomic Research Centre (BARC-2014), Mumbai organised by Department of Physics, Willington College, Sangli, held on 6th February 2014.
 - [15]. Participated in “AVISHKAR” 2013-14 Research Project competition at district level held at Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, Dist. Sangli in the UG-04 Category, on 21st December 2013
 - [16]. Participated in the “DST Innovation in Science Pursuit for Inspired Research (INSPIRE) Science Camp”, conducted by International Institute of Information Technology (I²IT), Pune held from 6th to 10th December 2009.
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ACADEMICS RELATED DUTIES

- [1]. Worked as an Examiner for the Poster Competition for “HELIX-2022” held on 3rd June 2022, organized by Biotechnology Department, Smt. Kasturba Walchand College (Arts-Science) Sangli.
 - [2]. Worked as Contributory Teacher for M.Sc. Environmental Biotechnology from 24th July 2017 to 8th November 2017.
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LIST OF SIGNIFICANT PUBLICATIONS:

- [1]. **Apurva D. Patil**, Pramod J. Kasabe, Geetanjali Mali and Padma B. Dandge. Isolation and Characterization of Pigment Producing Micro-Organism from Soil. (2021). International Journal of Genetic Engineering and Recombination. 7(2): 28-37
 - [2]. **Apurva D. Patil**, Pramod J. Kasabe, Padma B. Dandge. Pharmaceutical and nutraceutical potential of natural bioactive pigment: Astaxanthin (2022). Natural Products and Bioprospecting. 12(1): 1-27 [IS: 4.94]
 - [3]. **Apurva Patil**, Swapnil Patil, Pramod Kasabe, Shubham Patil, Kunal Patil, Mahesh Chougale, Seunghyun Lee, Rajanish Kamat, Jinho Bae, Padma Dandge and Tukaram Dongale. Artificial synaptic device based on bacterial prodigiosin. Journal of Materials Chemistry B. [IF: 7.571] (Under Revision).
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PAPERS PRESENTED IN CONFERENCES/ SEMINARS/ SYMPOSIUMS:

- [1]. **Apurva D. Patil**, Pramod J. Kasabe and Padma B. Dandge. Isolation, characterization and antibacterial activity of Astaxanthin from newly isolated *Paracoccus* bacterium. “Transdisciplinary International Conference on “Integrated Approach in S&T for Sustainable Future” (ICIASTSF-2022) organized by Dr. Ambedkar College, Deekshabhoomi, Nagpur; Seth Kesarimal Porwal College of Arts, Sci. and Comm., Kamptee; Priyadarshini J.L. College of Engg., Nagpur and PGTD of Mol. Bio. and Gen. Engg., RTMNU, Nagpur during 26th and 27th February 2022 (**Accepted for oral presentation**).
 - [2]. **Apurva D. Patil**, Pramod J. Kasabe, Geetanjali Mali and Padma B. Dandge. Strategic production, extraction and characterization of 4-cholesten-3-one from newly isolated *Rhodococcus* sp. NKZP-5. “One day National Conference on Contemporary Research in Life Sciences and Cancer Biology” (CRiLC-2019) organized by V.G. Shivdare College of Arts, Commerce and Science, Solapur on 19th January 2019 (**Accepted for poster presentation**).
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- [3]. **Apurva D. Patil**, Sanjivani B. Gajdhane, Padma B. Dandge. Three phase partitioning: Extraction and purification of α -galactosidase. 3rd International Conference on “Innovative Research in Science and Technology” (ICIRST-2017) organized by Gopal Krishna Gokhale College, Kolhapur with the knowledge partners Centre of Interdisciplinary Research, D.Y. Patil Education Society, Kolhapur and Department of Biotechnology, Shivaji University, Kolhapur, on 7th and 8th November 2017 (**Accepted for oral presentation**).
- [4]. **Apurva D. Patil**, Pramod J. Kasabe, Geetanjali Mali and Padma B. Dandge. Optimized production, partial purification and potential applications of cholesterol oxidase from isolated bacterial species. “National Conference on Innovative Research in Chemical Sciences” (IRCS-2017) sponsored by UGC-SAP and hosted by Department of Chemistry, Shivaji University, Kolhapur on 1st and 2nd February 2017 (**Accepted for poster presentation**).
- [5]. **Apurva D. Patil**, Varsha B. Shinde, Farida R. Inamdar, Pramod J. Kasabe, Geetanjali T. Mali and Padma B. Dandge. Formulation of biofertilizer prepared from kitchen food wastes using EM Bokashi fermentation strategy. National Conference on “Recent Advances In Integrated Pest Management” (RAIPM-2016) organized by Department of Agrochemicals and Pest Management, Shivaji University, Kolhapur, on 1st and 2nd March 2016 (**Accepted for oral presentation**).
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EXTRA-CURRICULAR ACTIVITIES:

- [1]. Participated and won prizes in various sports competitions at School and College levels.
- [2]. Secured Yellow and Orange belt in U.S.K.A (Universal Shotokan Karate Do-Association, India).
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- Dr. Apurva Dadasaheb Patil