

# Kalyani Ajaykumar Birari

M. Pharma (Pharmaceutical Chemistry)

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Maharashtra State Pharmacy Council Registration No: 389884



## Career Objectives

I am seeking a challenging role to apply my knowledge in the pharmaceutical field and continually learn, grow, and develop my practical and technical skills while contributing to the organization's growth.

## Academic qualification

Qualification	Year	Name of Institute	University/Board	Percentage
PET (Ph.D. Entrance Test)	2024	HRPIPER Shirpur Dist. Dhule	KBCNMU, Jalgaon	Qualified
M. Pharmacy (Pharmaceutical chemistry)	2024	HRPIPER Shirpur Dist. Dhule	North Maharashtra University, Jalgaon	9.01 (85.72%) (2 <sup>nd</sup> Rank in University)
B. Pharmacy	2022	A.R.A. College of Pharmacy, Dhule	North Maharashtra University, Jalgaon	8.18 (75.71%)
HSC (12 <sup>th</sup> )	2018	Z.B. Patil College, Dhule	Maharashtra State Board	65.23%
SSC (10 <sup>th</sup> )	2016	Raje Chhatrapati Sambhaji Vidyalaya, Dhule	Maharashtra State Board	81.60%

## Work Experience

Fresher

## Computer Operandi

- **Operating System:** Windows 7, 10, 11.
- **Office tools:** MS PowerPoint, MS Word, MS Excel.
- **Software:** ChemDraw, Endnote, Origin.

## Technical Skills

- **Organic Synthesis:** The process of carrying out various organic synthetic reactions, optimizing them, and developing methodologies for organic synthesis.
- **Purification:** Purification of organic compounds using crystallization and chromatographic techniques, such as Column chromatography, Preparative TLC (Shimadzu), and HPLC.
- **Analytical Knowledge:** Proficient Independently Fluorescence Spectrophotometer, UV Spectroscopy (Shimadzu), Handling and Calibration of IR (Shimadzu), pH meter, Flame Photometer.
- **Structural Elucidation:** Well-versed in structural elucidation using FTIR, and NMR Spectroscopy.

### Project Work: (M. Pharm 2023-2024)

**Thesis title:** Development of Molecularly Imprinted Fluorescent Nanoprobe for Selective Determination of Niclosamide

### Key Achievements/Extra Curricular Activities

- Received **1<sup>st</sup> Prize** in **Dr. P.D. Patil National Level Award**; for the **Best Thesis in Pharmaceutical Sciences -2024** in Pharmaceutical Chemistry category at **Dr. D. Y. Patil Medical College Auditorium, Pimpri, Pune.**
- **Qualified the Ph.D. Entrance Exam (PET 2024)** at KBC North Maharashtra University.
- Graduated with high honours, securing **2<sup>nd</sup> rank in university for M. Pharm (Pharmaceutical Chemistry)**, Class of 2024
- Participated in Tree Plantation Organized By **“Maharashtra Haritsena”** Ministry of Forest Department Dhule, Maharashtra, on 25<sup>th</sup> May 2018.
- Presented a poster on **“Green Touch in Synchronous Way”** in a district-level project competition held in SVKM’s Institute of Pharmacy, Dhule on 11<sup>th</sup> March 2022.
- Attended and presented a poster on **“A Review on Radiopharmaceutical and How it Can be Used to Treat Cancer”** an international conference at GRY University Bhopal on 2<sup>nd</sup> April 2022.
- Presented a poster on **“Fabrication of Sensitive Fluorescent Sensor Using a Delorix Regia (Gulmohar) Tree Pod Shell for Cost-effective Diagnosis of Prostate Cancer”** at Institute level Avishkar competition held at R.C. Patel Institute of Pharmaceutical Education & Research, Shirpur on 18<sup>th</sup> October 2023.

### Seminars/Conferences Attended

- Attended Atomic Energy Regulatory Board sponsored One Day National Symposium on **“Radiopharmaceutical Enhancement by Drug Delivery System”** organized by DCS’s A.R.A. College of Pharmacy Nagaon Dhule. 19<sup>th</sup> January 2019
- Attended a one-day national Conference on **“Advances in Herbal Drug Formulations with Industrial Perspectives”** Organized by DCS’S A.R.A. College of Pharmacy Nagaon Dhule on 8<sup>th</sup> February 2020.
- Attended a one-day National Conference on **“National Symposium on Herbal Medicine”** Organized by H. R. Patel Institute of Pharmaceutical Education Research, Shirpur in 2020.
- Attended COVID-19 awareness program Organized by Sandeep Foundation’s Sandeep Institute of Pharmaceutical Science Nashik in April/May 2020.
- Attended one-day workshop **“Desire to Success with Passion”** organized by H. R. Patel Institute of Pharmaceutical Education Research, Shirpur held on 16<sup>th</sup> March 2023
- Attended a one-day national conference on **“Concurrent and Future Prospects in Drug Design and Development in Nanotechnology”** organized by H. R. Patel Institute of Pharmaceutical Education Research, Shirpur held on 15<sup>th</sup> March 2023

- Attended a one-day national conference on “**Progressive and Innovative Approach to Explore Research in Herbals**” organized by A.R.A. College of Pharmacy Nagaon Dhule on 28<sup>th</sup> March 2023
- Attended a one-day national workshop on “**Professional Skill Development & IPR**” IQAC in collaboration with IPR Cell KBC North Maharashtra University, Jalgaon, sponsored by KBC North Maharashtra University, Jalgaon on 17<sup>th</sup> February 2023
- Attended a one-day workshop on “**National Employment & Entrepreneurship Workshop (NEEW 2023)**” Sponsored by Lifelong Learning & extensions, KBC North Maharashtra University, Jalgaon, 28<sup>th</sup> February 2023
- Attended **31<sup>st</sup> INDO-US INTERNATIONAL, CONFERENCE** “Global trends and challenges in drug design, nanotechnology and pharmaceutical sciences” organized on the online mode organized by APP Gujarat State Branch and APP American International Branch in collaboration with APP Molecular Pharmacology Division at Krishna School of Pharmacy & Research, KPGU, Vadodara, Gujarat (India) on 19<sup>th</sup> march 2024

### Industrial Visits

- Visited Ashtang Ayurvedic Pharmacy Factory E-46, MIDC, Awdhan, Dhule, 424311 to observe the industrial goods medicine manufacturing process in July 2022
- Visited ICPA Health Products Ltd. Ankaleshwar No. 286, Gujarat 393002, India 31<sup>st</sup> July 2023
- Visited Shree Harikrishna Pharmaceuticals, Plot No. C 510/511, Opp. Varmora Foods, GIDC – Bavala (382220) Ahmedabad, Gujarat – India 1<sup>st</sup> august 2023
- Visited Zydus Research Centre Sarkhej-Bavla N.H. No 8a, Ahmedabad, Gujarat 382213 on 2<sup>nd</sup> august 2023

### Key publications

1. **Birari, Kalyani A.**, Pravin O. Patil, Shadma Wahab, Mohammad Khalid, Mahendra M. Mahajan, Rahul S. Tade, Sanjaykumar B. Bari, and Zamir G. Khan. "A comprehensive review on niclosamide detection in foodstuffs and pharmaceutical preparations: Diverse analytical approaches and emerging techniques." *Microchemical Journal* (2024): 112284. **(Impact Factor: 4.9)**
2. **Birari, Kalyani A.**, Pravin O. Patil, Mohamad Taleuzzaman, Md Shamsher Alam, Shadma Wahab, Mohammad Khalid, and Zamir G. Khan. "Design and optimization of a novel fluorescent molecularly imprinted polymer for selective niclosamide sensing in real samples: greenness assessment of MIP synthesis using AGREEMIP." *Microchimica Acta* 192, no. 4 (2025): 1-12. **(Impact Factor: 5.4)**

### Patent

**Title:** Development of Molecularly Imprinted Fluorescent Nanoprobe for Selective Determination of Niclosamide, Status: Complete Specification Filed, Application number: 202421055231, Date: 19<sup>th</sup> July 2024

### **Training**

I completed one month of training at Sykem Pharma Research and Development Mumbai Agra National Highway No. 03, First Floor College of Fire & Safety Engg. Nagaon, Dhule-424005 Maharashtra, India.

### **Certificate Courses**

I completed the "Maharashtra State Certificate in Information Technology" (MS-CIT) course on behalf of the Maharashtra government in June 2016 with 95/100 marks.