

Name: Dr. Madhuri Tanaji Patil**Assistant Professor****PG Department of Chemistry**madhuritanajipatil@gmail.commadhuritanajipatil@mcmdavcwchd.in**Areas of Interest**

- Organic Chemistry, Medicinal Chemistry

Educational details

Degree	Year	University	Percentage	Comments
Ph. D. Chemistry	2013	University of Pune, Pune, Maharashtra		
M. Sc. Organic Chemistry	2001	University of Pune, Pune, Maharashtra	66.75	First Class
B. Sc. Chemistry	1999	University of Pune, Pune, Maharashtra	71.21	First Class with Distinction
HSC P,C,M, Electronics	1996	Maharashtra State Board	70.50	First Class
SSC	1994	Maharashtra State Board	80.71	First Class with Distinction

Professional Details

Designation	From	To	Organization
Asst. Prof. (Regular)	July 2017	Till today	Mehr Chand Mahajan DAV College for Women, 36A, Chandigarh
Asst. Prof. (Ad-hoc)	July 2016	April 2017	DAV College for Women, Sec 10, Chandigarh
Scientific Assistant	July 2015	June 2016	Department of Chemistry, Panjab University, Chandigarh
Asst. Prof. (Ad-hoc)	July 2014	June 2015	Padmashree Dr. D. Y. Patil Institute of Engineering & Technology, Pune
Post-doctoral Researcher	May 2013	March 2014	Department of Pharmaceutical Chemistry, University of Kansas, Lawrence, USA

Awards & Recognitions

Award	Institute	Year
DST Women Scientist Fellowship (DST-WOSA)	DST, New Delhi, India	2017
Junior Research Fellow (JRF, 2004)	CSIR; New Delhi	2004

Research Publications

Title	Journal	Refereed	Date and Year of Publication	Online Link
Patil, M. T.; Krishnaswami, S.; Sarmah, M. P.; Shashidhar, M. S. "Protecting group directed stereoselective reduction	Tetrahedron letters 52 (29), 3756-3758	Yes	20 July 2011	https://www.sciencedirect.com/sc

of an <i>epi</i> -inosose: efficient synthesis of <i>epi</i> -inositol.”				ience/article/abs/pii/S040403911007982
Krishnaswami, S.; Patil, M. T. ; Shashidhar, M. S. “Comparison of racemic <i>epi</i> -inosose and (–)- <i>epi</i> -inosose.”	<i>Acta Crystallogr.</i> 2011 , C67, o435-o438.	Yes	15 November 2011	https://scripts.iucr.org/cgi-bin/paper?sf3158
Jagdhane, R. C.; Patil, M. T. ; Krishnaswami, S.; Shashidhar, M. S. “The orientation of the β -hydroxyl group controls the diastereoselectivity during the hydride reduction and Grignard reaction of inososes.”	<i>Tetrahedron</i> 2013 , 69, 5144-5151.	Yes	24 June 2013	https://www.sciencedirect.com/science/article/abs/pii/S040402013006273
Salunke, D. B.; Patil, M. T. ; Poonam; Pore, V. S. Design and Synthesis of New Lanosterol/Triazole Conjugates.	<i>Panjab University Research Journal (Science)</i> , 2016 , 66	Yes	June 2016	Print only
Kaur, A.; Poonam; Patil, M. T. ; Mehta, S. K.; Salunke, D. B. An efficient and scalable synthesis of potent TLR2 agonistic PAM2CSK4.	<i>RSC Adv.</i> , 2018 , 8, 9587–9596.	Yes	5 March 2018	https://pubs.rsc.org/en/content/articlehtml/2018/ra/c8ra01387j
Singh, R.; Kumar, S.; Patil, M. T. ; Chung-Ming Sun, Salunke, D. B. Post-Pictet-Spengler Cyclization (PPSC): A Strategy to Synthesize Polycyclic β -Carboline-Derived Natural Products and Biologically Active N-Heterocycles	<i>Advanced Synthesis & Catalysis</i> 2020 , 362 (19), 4027-4077.	Yes	7 August 2020	https://onlinelibrary.wiley.com/doi/abs/10.1002/adsc.202000549
Kaushik, D.; Dhingra, S. Patil, M. T. ; Piplani, S.; Khanna, V.; Okubo, Y.H.; Lei Li, Fung, J.; Sakala, I. G.; Salunke, D. B.; Petrovsky, N. BBIQ, a pure TLR7 agonist, is an effective influenza vaccine adjuvant	<i>Human Vaccines & Immunotherapeutics</i> , 2020 , 16(8), 1989–1996.	Yes	16 April 2020	https://www.tandfonline.com/doi/full/10.1080/21645515.2019.1710409
Patil N. T.; Patil, M. T. ; Gonnade R. G.; Shashidhar, M. S Access to Enantiomeric Organic Compounds with Potential for Synthesis via Racemic Conglomerates: Inositol Derivatives as a Case in Point,	<i>Cryst. Growth Des.</i> 2021 , 21, 3786–3797.	Yes	15 June 2021	https://pubs.acs.org/doi/abs/10.1021/acs.cgd.1c00126
Kaur, M.; Singh R.; Patil M. T. ; Kumar, K.; Sahoo, S. C.; Singh, K. N.; Chaudhari, V. D.; Salunke D. B. Microwave-assisted Groebke-Blackburn-Bienaymé multicomponent reaction to synthesize imidazo fused heterocycles via in-situ generated isocyanides from N-formylamines: An undergraduate organic laboratory experiment.	<i>Journal of Heterocyclic Chem.</i> , 2021 , 1-10.	Yes	13 October 2021	https://onlinelibrary.wiley.com/doi/abs/10.1002/jhet.4386

Singh R.; Singh, R.; Kaur, M.; Patil M. T. Sahoo, S. C.; Salunke D. B. Groebke–Blackburn–Bienaymé multicomponent reaction coupled with unconventional Pictet–Spengler cyclization for the synthesis of imidazo[4,5-b]pyridine fused polycyclic heterocycles, <i>Journal of heterocyclic Chem.</i> , 2021 , 1-10.	<i>Journal of Heterocyclic Chem.</i> , 2021 , 1-10.	Yes	29 December 2021	https://onlinelibrary.wiley.com/doi/abs/10.1002/jhet.4438
Indole based prostate cancer agents	Physical Sciences Reviews	Yes	13 January 2022	https://www.degruyter.com/document/doi/10.1515/psr-2021-0131/html?lang=de

Books/Chapters

Title	Publisher	Year of Publication
Thiazole: A privileged scaffold in drug discovery (Book Chapter, DOI: https://doi.org/10.1515/9783110368826-013)	De Gruyter ISBN: 9783110368826	2016
Rohini Kanwar, Jyoti Rathee, Madhuri Tanaji Patil and Surinder Kumar Mehta; Microemulsions as nanotemplates: A soft and versatile approach (Book Chapter, DOI: 10.5772/intechopen.73338)	IntechOpen ISBN: 978-1-78984-544-0	2019

Projects Undertaken

Title of the project: Synthesis and structure-property relationship studies of surfactants containing natural structural motif inositol as hydrophilic head group (SR/WOS-A/CS-132/2016)

Funding Agency: DST, New Delhi, India under DST Women Scientist Scheme A (DST-WOSA).

Research Guidance

Nil

Oral Presentations/Invited Talks

1. Talk entitled, “Science behind Happiness” at Two-Day International Conference On, “The Soul in Symphony: Spiritual and Pragmatic Aspects of Happiness” organized by MCM DAV College for Women, Chandigarh, India on January 29-30, 2018.
2. Talk entitled, “Role of Chemistry in Success and Happiness” at Two-Day National Conference On, “National Conference on Innovations and Sustainable Development made by Chemistry in 21st Century (ISDMC-2019)” organized by Hutatma Rajguru Mahavidyalaya, Rajgurunagar, Pune, India on January 7-8, 2019.
3. Talk entitled, “Key to Success” at Department of SAIF/CIL, Panjab University, Chandigarh on account of Educational Trip for Orientation in Chemistry on January 23, 2019.
4. Talk entitled, “DST WOS-A, a Catalyst in the Journey of Women in Science” on the theme Women in science & technology and science & technology for women during Vigyan Mahotsav as a part of Azadi Ka Amrit Mahotsav, Department of Science & Technology (DST), Govt. of India & Haryana State Council for Science, Innovation & Technology, Department of Science & Technology, Govt. of Haryana on March 07, 2022

National / International Workshops & Seminars Attended:

1. Industry Academia Interaction Programme (IAIP2016): Current Insights and Future Avenues. Department of Chemistry, Panjab University, Chandigarh. February 27, 2016.
2. National Workshop on X-ray Powder Diffraction, Dynamic Light Scattering, Scanning- and Transmission

- Electron Microscopies (**NXDST2016**)* Department of SAIF/CIL, Panjab University, Chandigarh. March 15-21, 2016
3. International Workshop on Amphiphilic Molecules and Self-Assembly: Principles and Applications. (GIAN Course of MHRD) Department of SAIF/CIL, Panjab University, Chandigarh. March 22-28, 2016
 4. International Workshop on Heterogeneous catalysis and Applications (GIAN Course of MHRD) Department of SAIF/CIL, Panjab University, Chandigarh. Aug 1-5, 2016
 5. National Workshop on Applications of NMR and LC-MS for Structure Elucidation of Small Molecules (**NMR-LCMS2016**)* Department of SAIF/CIL, Panjab University, Chandigarh. Aug 22-27, 2016
 6. International Workshop on Process Safety and Risk Engineering. (GIAN Course of MHRD) Department of SAIF/CIL, Panjab University, Chandigarh. Nov 14-19, 2016
 7. RUSA sponsored Workshop for Faculty Development Program on Spectrum of Science. Department of Chemistry, DAV College, Chandigarh. Jan 20-28, 2017.
 8. Workshop on Electrochemistry at Post Graduate Department of Chemistry, MCM DAV College for Women, Chandigarh. October 13, 2017.
 9. Science Academies' Lecture Workshop on "Chemistry and Its Multidisciplinary Facets" Post Graduate Department of Chemistry, MCM DAV College for Women, Chandigarh. Oct. 24-25, 2017.
 10. Faculty Development Program entitled, "Calculating API Scores" organized by Internal Quality Assurance Cell (IQAC), MCM DAV College for Women, Chandigarh on May 28, 2018.
 11. International Workshop on Nanostructured metal oxides for sensing and environmental applications (GIAN Course of MHRD) held at Department of SAIF/CIL, Panjab University, Chandigarh on August 6-10, 2018.
 12. The pedagogy workshop for undergraduate science teachers, organized by CoESME, IISER Pune and supported by Department of Biotechnology (DBT), Govt. of India, and British Council, at Hotel Ibiza by The Fern in Kolkata from September 23-26, 2018.
 13. The workshop organized by National Science Teachers Congress (along with organizing partner institutions like Vigyan Prasar (DST), CERT (MHRD) and Vijnana Bharati- an voluntary science movement lead by eminent scientists) at the 4th India International Science Festival (IISF 2018) on October 7-8, 2018 at Lucknow, India.
 14. DST sponsored National Workshop on foldscope and symposium on applied Bio-Technology during March 15-16, 2019 organized by Research and Development cell of Department of Bio-Technology at IIS (Deemed to be University) Jaipur, Rajasthan.
 15. First SPARC International Workshop on Vaccine Chemistry and Immunology organized by Department of Chemistry and Department of SAIF/CIL, Panjab University, Chandigarh on April 20, 2019.