
List of publications

1. P. Mathur, M. Mori, H. Vyas, K. Mor, J. Jagtap, S. Vadher, K. Vyas, R. Devkar, A. Desai. Synthesis of novel bis-imino and bis-amino curcuminoids for evaluation of their anticancer and antibacterial activity, *ACS Omega*, 2022, **7**, 45545–45555.
2. A. Desai, P. Mathur, A novel class of supramolecular compounds: compound of formula (IA) and (IB). Indian Patent 369055, 2021.
https://patentscope.wipo.int/search/en/detail.jsf?ocId=IN335044831&_cid=P12-L40W51-74422-2.
3. A. Desai, P. Mathur, Novel bis (hydroxy benzylidene) cyclic ketone based tetra-aza corand. Indian patent. 369745, 2021.
https://patentscope.wipo.int/search/en/detail.jsf?docId=IN335044831&_cid=P10-KZQKS6-63174-1.
4. A. Desai, P. Mathur, Novel bis (hydroxy benzylidene) cyclic ketone based tetra-aza corand. US patent application 17/639,918.

List of presentations in conferences

1. Entitled “**Synthesis of novel chiral bis-amines and their Application as chiral solvating agent**” presented as oral presentation in the “7th All Gujarat Research Scholars’ Meet” held on 25th February 2018 in Department of Chemistry, Faculty of Science, The Maharaja Sayajirao University of Baroda.
2. Entitled “**Supramolecular silver cavitates: An alternative to antibiotics**” presented as poster presentation in the “6th International Conference on Recent Advances in Nanotechnology & Radiopharmaceutical Drug & Development” held on 16-17th February 2019 in Shree Dhanvantary Pharmacy College.
3. Entitled “**Synthesis of curcumin derivatives as antineoplastic agent**” presented as poster presentation in “National Symposium on Advances in Chemical Research” held on 24th February 2019 in Department of Chemistry, Faculty of Science, The Maharaja Sayajirao University of Baroda.
4. Entitled “**Silver corates: As novel class of antineoplastic agent**” presented as poster presentation in the “Decadal Trends in Chemistry Research: The Perspective of Women Scientist” held on 8th March 2020, in Department of Chemistry, Faculty of Science, The Maharaja Sayajirao University of Baroda.
5. Entitled “**Supramolecular chiral curcuminands: A novel approach towards targeted drug delivery system**” presented as oral presentation in International conference on organic, medicinal and pharmaceutical chemistry”, held on 24th -27th February 2022 in Department of Chemistry, Navrachna University.
6. Entitled “**Self-Therapeutic Bicyclic Curcuminand for Cancer Therapy**” presented as poster presentation in “21st International symposium on Advance in Technology and Business Potential of New Drug Delivery Systems”, held on 24th -25th February 2023 in Mukesh Patel Auditorium, NMIMS campus, Mumbai.

List of participation in conferences

1. The researcher attended "**Supramolecular Science: Basic Concepts, New Directions and Technology**" held on 12-18 March 2018 in Department of Chemistry, IIT Indore.
2. The researcher attended "**Advances in Analysis of biotech Products and Bio Samples**" held on 8th September 2018 organized by Department of Chemistry, The Maharaja Sayajirao University of Baroda and Thermo Fisher India PVT. LTD.
3. The researcher attended "**National Conference on Novel Chemical System for Therapeutic and Energy Applications**" held on 1-2nd March 2019 in Department of Chemistry, Sardar Patel University, Vallabh Vidyanagar.
4. The researcher attended a seminar on "**Application of X-Ray Techniques – XRF, XPS, Auger**" held on 9th March 2019, in Department of Chemistry, Faculty of Science, The Maharaja Sayajirao University of Baroda.
5. The researcher attended a seminar on "**National seminar on Human Health : Need of the Hour**" held on 24th Dec 2019, organized by ISCA-BC, ISG-VC, IWSA-BB, Faculty of Science, The Maharaja Sayajirao University of Baroda.
6. The researcher attended a seminar on "**National seminar on Advances in Chemistry of Bioactive Molecules**" held on 17th -18th Jan 2020, in Department of Chemistry, Faculty of Science, The Maharaja Sayajirao University of Baroda.
7. The researcher attended a seminar on "**Decadal Trends in Chemistry Research: The Perspective of Women Scientist**" held on 8th March 2020, in Department of Chemistry, Faculty of Science, The Maharaja Sayajirao University of Baroda.
8. The researcher attended a seminar on "**Recent Trends in Organic Synthesis**" held on 1st July 2023, in Department of Chemistry, Faculty of Science, The Maharaja Sayajirao University of Baroda.
9. The researcher participated in skill development program course "**X- Ray Crystallography**" scheduled during 10th June to 5th July 2019 in CSIR-NCL Pune.
10. The researcher participated in 7 day training "**MD Simulations, GROMACS, VMD & NAMD**" scheduled during 25th July to 31th July 2023 organized by BDG Life Sciences PVT. LTD., India.