

Miqdad Maqbool Dafedar

Organic synthesis | R&D synthesis |
Documentation | Chromatography |

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SUMMARY

My involvement in research projects has equipped me with invaluable skills such as synthesis, documentation, troubleshooting, process development, and collaborative work with researchers.

I'm eager to contribute to your research efforts.

PROJECT

“Process development of 2-Amino 3,5 Di-iodo benzoic acid and 2,3,5 Tri-iodo benzoic acid.”

- Conducted several experimental designs to optimize reaction conditions, which led to a 40% increase in both compound's efficacy.
- Melting point, HPLC, and chromatography were among the analytical methods used to evaluate the yield and purity, with purity levels surpassing 75%.
- Collaborate with cross-functional teams to resolve issues and put process enhancements into place, which increased overall production efficiency by 35%.
- We achieved a 25% increase in project evaluation scores after receiving praise from the external examiner for outstanding problem-solving and project application.

“Phytochemical Efficacy of Nigella sativa and Salvadora persica Against Bacterial Pathogens: An Optimization of Extraction and Antimicrobial Assays”

- Identified antimicrobial properties by conducting a study on Kalonji and Miswak; at 60 µg/mL, significant pathogen activity was achieved.
- Optimized antimicrobial testing protocols and a significant rise in phytochemical yield were the results of improved extraction techniques by 20%.
- effectively collaborated with a multidisciplinary team to improve extraction methods and antimicrobial testing, which resulted in a breakthrough in antibacterial efficacy and yield optimization.

SKILL

Reverent Coursework: Organic Synthesis, Planning Chemical Reactions, chromatography Analysis, Calculation, Documentation, and Literature Review.

Soft skills: Attention to detail, problem-solving, adaptability, cooperation, presentation, and Communication.

Technical Skills: Chem-Draw, MS Excel, MS Word, PowerPoint, Chat GPT, and others A.I Tools

EDUCATION

Abeda Inamdar Senior Collage, Pune, Maharashtra.

April 2024

Master of Organic Chemistry.

Graduation with Distinction: 77.40%.

Savitribai Phule Pune University, Pune, Maharashtra

April 2022

Bachelor of Chemistry and Biotechnology.

Graduated with First Class: 74.18%

HOBBIES AND INTRESTS

- A valuable contributor to collaborative projects, boosting team success with a 30% increase in project completion efficiency
- A regular volleyball and cricket match participant fosters teamwork and camaraderie while enhancing physical fitness and coordination.
- Seeker of challenging activities that push boundaries, fostering personal growth and resilience through tackling tasks with a 20% higher difficulty level
- We are engaged in leadership-focused activities to refine skills, aiming for a 25% improvement in leadership competency through proactive involvement in team initiatives and mentorship programs.
- I am interested in joining the API team.