

MUNEB MUKHTAR

Chemist

Alain, UAE

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SUMMARY

Recent chemistry graduate with a Bachelor of Science degree from UAE University. Seeking an entry-level position to apply strong analytical skills and solid laboratory experience. Enthusiastic about contributing to innovative research and development projects while continuously expanding knowledge in chemical processes and techniques.

EXPERIENCE

Research Intern

United Arab Emirates University, Alain

MAY 2022 - JUL 2022

Worked as a research assistant in the SURE+ program.

- Research centered around organic synthesis and MOF synthesis.
- Skilled with various programs such as spectraGryph and ChemDraw.
- Utilized various instruments such as SEM, NMR, PXRD, and FT-IR.

Research Intern

United Arab Emirates University, Alain

MAY 2024 - NOV 2024

- Synthesized and analyzed hydrophilic magnetic covalent organic frameworks (COFs) with applications in environmental remediation.
- Characterized COFs using FTIR, XRD, and nitrogen sorption isotherms, demonstrating their high hydrophilicity, stability, and large surface area.
- Investigated and documented the photochemical properties of COFs, advancing research on sustainable methods for insecticide removal.

Lab Intern

Abu Dhabi Agriculture & Food Safety Authority, Alain

March 2024 - May 2024

Al Qattara Veterinary Hospital.

- Conducted calibration and QC procedures to ensure testing accuracy and reliability.

EDUCATION

Bachelor of Science in
Chemistry

United Arab Emirates
University

SEP 2020 - DEC 2024

LANGUAGES

English

Arabic

SKILLS

Data analysis & chemical analysis.

Laboratory techniques.

Computer skills.

Instrumentation.

Organic synthesis and MOF
synthesis.

Problem solving.

Communication

PUBLICATIONS

Research paper

OCT 2024

AlNeyadi, S. S.; Alhassani, M. T.;
Mukhtar, M. R.; Alblooshi, H. K.; Jama,
S. A.; Al Mujaini, I.; Aleissae, A. S.
Hydrophilic magnetic COFs: The
answer to photocatalytic degradation
and removal of imidacloprid insecticide.
Heliyon 2024, 10 (20).

- Operated advanced lab equipment (e.g., Cobas, VITEK-2, LC-MS) for biochemistry, microbiology, and molecular analyses.

[https://www.cell.com/heliyon/fulltext/S2405-8440\(24\)15073-6](https://www.cell.com/heliyon/fulltext/S2405-8440(24)15073-6)

AWARDS AND ACHIEVEMENTS

Deans list

Spring 2022, 2023, 2024 & Fall 2021, 2022, 2023

Chemathon 2023 winner

Won first place in the chemathon competition at King Fahad University of Petroleum and Minerals in Saudi Arabia.

2nd AAU Health and Biomedical Postgraduate Symposium

Won the second place in the category of drug delivery systems.

International Workshop On Advanced Materials

Participated in and presented our research on MOF'S as a drug delivery system.

Best Poster Award NANO

Won the best poster award for our research regarding hydrophilic magnetic COFs in November 2024

Patent Filed for Hydrophilic Magnetic COFs

AlNeyadi, S. S.; Alhassani, M. T.; **Mukhtar, M. R.**; Alblooshi, H. K.; Jama, S. A.; Al Mujaini, I.; Aleissae, A. S., Hydrophilic magnetic COFs: The Answer to photocatalytic degradation and removal of imidacloprid insecticide. IDF00217, filed, 2024

Patent Filed for pH-Responsive Cycloheptylamine Hydrochloride Loaded ZIF-8 in Diabetes Treatment

filed a patent application for a pH-responsive ZIF8 system loaded with cycloheptylamine hydrochloride for targeted treatment of diabetes.

Runner-Up in the International Inter-College Environmental Public Speaking Competition

Won the second place in the ICEPSC organized by the Emirates Environmental Group.

Runner-Up in the Universities Challenge in Food Security and Sustainability Competition

Won second place in the competition which the UAE University organized in collaboration with ADAFSA.

CONFERENCES

The Third Materials Science Conference

New York University, Abu Dhabi

OCT 2022

15th Annual International Workshop on Advanced Materials

Ras Al Khaimah Center for Advanced Materials

FEB 2024

The 2nd AAU Health and Biomedical Postgraduate Symposium

Alain University of Science and Technology

FEB 2024