

CURRICULUM VITAE



DR MUHAMMAD KHAWAJA HAMMAD UDDIN

Post Doctorate (UK), PhD (UK), MS (UK), BDS, RDS, CHPE, CHQP

The University of Sheffield, England, United Kingdom.

Queen Mary University of London, England, United Kingdom.

The University of Karachi, Sindh, Pakistan.

ACADEMICIAN, RESEARCHER & CONSULTANT

DENTAL & BIO-MATERIALS SCIENCES & ENGINEERING

REGENERATIVE MEDICINE & TISSUE ENGINEERING

Higher Education Commission (HEC) Pakistan Approved Supervisor

Postgraduate Degree Programs (MSc, MS, MDS, MPhil & PhD)

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PERSONAL INFORMATION

Name: **Dr Muhammad Khawaja Hammad Uddin**

CAREER OBJECTIVE

To excel and create changes in the research field of Dental Biomaterials by amalgamation of novel ideas and theories. To promote excellence in the field of Dentistry for the benefit of humanity and be able to contribute positively towards the success of a given entity by employing my inimitable interpersonal skills and knowledge.


CAREER HIGHLIGHTS

ACADEMICS

- **Post Doctorate (Bio-material Sciences, Tissue Engineering & Regenerative Medicine)**, The University of Sheffield, England and United Kingdom.
- **PhD (Dental Bio-material Sciences & Tissue Engineering)**, The University of Sheffield, England, United Kingdom.
- **MS (Dental Material Sciences & Engineering)**, Queen Mary University of London, England, United Kingdom.
- **B.D.S**, (Jinnah Medical & Dental College, Karachi.), The University of Karachi, Pakistan.
- **R.D.S**, (Registered Dental Surgeon & Practitioner, Pakistan Medical & Dental Council).
- **Certified Health Care Professional Educationalist (CHPE)**, Dow University of Health Sciences Karachi. Pakistan.
- **Certified Health Care Quality Professionals (CHQP)**, Dow University of Health Sciences Karachi. Pakistan.

TEACHING & ADMINISTRATION EXPERIENCE

- **Principal (6 months)** for School of Dental Care Professionals (SDCP), DOW University of Health Sciences (DUHS) Karachi Pakistan.
- **Vice- Principal** for School of Dental Care Professionals (SDCP), DOW University of Health Sciences (DUHS) Karachi Pakistan.
- **Member Institutional Self Assessments Team Quality Enhancement Cell (QEC)**, Dow University of Health Sciences (DUHS).
- **Member PhD and MPhil Curriculum Development & Review Committee (CD&RC)** for DOW University of Health Sciences (DUHS).
- **Member Curriculum Review Committee (CRC) for Institute of Medical Technology (IMT)** at Dow University of Health Sciences (DUHS).
- **Secretary & Member for Curriculum Review Committee (CRC)** for School of Dental Care Professionals (SDCP) (Dental Technology & Dental Hygiene Courses) at Dow University of Health Sciences (DUHS).
- **Secretary & Member of Board of Studies (BOS)** for Department of Science for Dental Materials DOW University of Health Sciences (DUHS).
- **Member of Board of Studies (BOS)** for School of Dental Care Professionals (Dental Technology & Dental Hygiene Courses) of DOW University of Health Sciences (DUHS).
- **Member of Board of Studies (BOS) for Institute of Medical Technology (IMT)** at Dow University of Health Sciences (DUHS).
- **Higher Education Commission (HEC) Nominated Member & Focal Person from SDCP for Green Youth Movement (GYM) Program** from DOW University of Health Sciences (DUHS).
- **Higher Education Commission (HEC) Pakistan Approved Supervisor for**



Postgraduate Research Programs (MSc, MS, MDS, MPhil & PhD).

- **Primary Supervisor of Masters of Dental Sciences (MDS)** students (4) in the Department of Science of Dental Materials at DOW University of Health Sciences (DUHS).
- **Co-Supervising MPhil (1) & PhD (1)** Students of Department of Science of Dental Biomaterials at Baqai Medical University (BMU) Karachi Pakistan.
- **Director & Head of Dental Research Cell (DRC)**, Bahria Medical & Dental University of Health Sciences (BM&DUH), Karachi Pakistan.
- **Research Coordinator for Dental Section** Bahria Medical and Dental University of Health Sciences, Karachi Pakistan.
- **Member of National Review Board** for the Journal of Bahria Medical & Dental College (JBUMDC).
- **Journal Research Club Coordinator for Basic Dental Sciences** at Dr Ishrat-ul-Ebad Khan Institute of Oral Health Sciences (DIKIHOS), Dow University of Health Sciences (DUHS), Karachi, Pakistan.
- **Assistant Professor & Postgraduate Research Supervisor** at the Department of Science of Dental Materials, Dr Ishrat-ul-Ebad Khan Institute of Oral Health Sciences (DIKIHOS), Dow University of Health Sciences (DUHS), Karachi, Pakistan.
- **Assistant Professor** at The Department of Dental Biomaterials, Bahria Medical and Dental College, Bahria University, Karachi Pakistan.
- **Head of the Department (HOD) and Assistant Professor** of Dental Materials at Jinnah Medical & Dental College, Sohail University, Karachi Pakistan.
- **Lecturer and Graduate Teaching Assistant**, Department of Materials Sciences & Engineering at The University of Sheffield, England, United Kingdom.
- **Demonstrator**, Department of Bio-materials Sciences & Tissue Engineering at The University of Sheffield, England, United Kingdom.

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- **Laboratory and Project Mentor** for Undergraduate & Masters Taught & Research students, at the University of Sheffield, England, United Kingdom.
 - **Facilitator & Demonstrator for Research Ethics and Integrity Course** at the University of Sheffield, England, United Kingdom.
 - **Senior Assistant Examination Invigilator** with the Examination Department at the University of Sheffield, England, United Kingdom.
 - **Senior Student Registration Assistant** with the Administration Department at The University of Sheffield, England, United Kingdom.
 - **Research Assistant**, the Queen Mary University of London, United Kingdom.

RESEARCH INTERESTS

Keen interests in Dental and Bio-Materials Sciences and Tissue Engineering, Regenerative Medicine, Stem Cell and Cancer cell Research, Nanotechnology, Glasses and Bio glasses, Surface & Mechanical Characterization.

INTERNATIONAL IMPACT FACTOR PUBLICATIONS

- **‘Application of Metformin in Dentistry- A Review’**, ELSEVIR Taibah University Medical Sciences Journal, 14th March 2023, DOI.10-1016/j.jtumed2023.03.014.
- **“In-Vitro Biochemical Analysis of Bioactive Glass Ionomer Cement (45S5) with tartaric acid as setting modifier”** Conference Paper presented on 17th March 2022 at 1st International Conference on Biotechnology, University of Karachi.
- **”Marine-Derived Bio-waste Conversion into Bio-ceramic Membrane Materials: Contrasting of Hydroxyapatite Synthesis Methods”**. Molecules MDPI Journal ISSN 1420-3049 Published on 20th October 2021.
- **“Gold based carbon supported bimetallic catalysts for energy storage and biomedical**

applications”. Journal of Micro chemicals ELSEVIER, MICROC3917, ISSN 0026-265X

Published on 24th May 2019.

- **“Resistance patterns among multi drug-resistant tuberculosis patients: A multi-center study from Pakistan”**. International Journal of Endorsing Health Sciences Research, Volume 5 Issue 4, ISSN 2310-3841, pages 7-11. Published on 30th December 2017.
- **“Improved cell viability and hydroxyapatite growth on nitrogen ion-implanted surface”**. Journal of Radiation Effects and Defects in Solids (Incorporating Plasma Science and Plasma Technology), Volume 172, ISSN 1042-0150. Published on 6th September 2017.
- **“Study of nickel ion release in stimulated body fluid from C+ implanted nickel titanium alloy”**, Journal of Surface Review and Letters. Volume 23, Issue 05, ISSN 1793-6667. Published on 19 May 2016.

JOURNAL PEER REVIEWER / MEMBER

- International Journal of Materials Sciences and Engineering (Impact Factor Journal).
- Journal of College of Physicians and Surgeons (JCPSP) Pakistan (Impact Factor Journal).
- Journal of Pakistan Dental Association (JPDA).
- Annals of Jinnah Sindh Medical University (AJSMU).
- Journal of Dow University of Health Sciences (JDUHS).
- Journal of Bahria Medical and Dental College (JBUMDC).
- Faculty Researchers Committee member of Bahria University of Health Sciences (BUHS).

AFFILIATIONS / SOCIETIES MEMBERSHIPS

- The American Ceramic Society (ACerS).
- International Association of Oncology (IAO).
- The European Society for Biomaterials (ESB).
- Pakistan Medical and Dental Council (PM&DC).
- American Society of Clinical Oncology (ASCO).
- Association of Pharmaceutical Research (APR).
- The United Kingdom Society for Biomaterials (UKSB).
- Pakistan Society of Biomaterials and Tissue Engineering.
- The Global Graduate Researcher Network (GGRN) UK Chapter.
- Member of National Review Board of Journal of Bahria Medical & Dental College (JBUMDC).
- Secretary and Member of Board of Studies (BOS) for Department of Science for Dental Materials DOW University of Health Sciences (DUHS).
- Member of Board of Studies (BOS) for School of Dental Care Professionals (Dental Technology & Dental Hygiene Courses) of DOW University of Health Sciences (DUHS).
- Member of Board of Studies (BOS) for Institute of Medical Technology (IMT) at Dow University of Health Sciences (DUHS).

INTERNATIONAL & NATIONAL WORKSHOPS CONFERENCES ATTENDED

1. “Workshop on Biomaterials and Molecular Biology” (participated as Organizer & Guest Speaker) on 18 & 19th July 2023 at Dow Dental College, Dow University of Health Sciences Karachi.
2. “43rd Asia Pacific Dental Congress Conference (APDC)” (participated as Guest Speaker) held on 24th June 2022’.
3. “2nd International Conference on Biomaterials, Tissue Engineering & Regenerative Medicine” 15-17th March 2022, (participated as Guest Speaker) organized by Department of Material Sciences & Engineering, Institute of Space Technology (IST) in Islamabad Pakistan.
4. “1st International Conference on Biotechnology” 16-17th of March 2022, organized by Department of Biotechnology, The University of Karachi Pakistan (participated as Guest Speaker).
5. “Workshop on Competency by Design” at Dow University of Health Sciences on 15th January 2022.
6. “International Conference on Sustainable Development Goals”, Dow University of Health Sciences Karachi, December 2021.
7. Hybrid Workshop on “Conducting Clinical Trials in Pakistan: Challenges and Opportunities” organized by IRCBM, COMSATS University Islamabad & Lahore in 2021.
8. Hybrid Workshop entitled, “Transform Yourself Using Neuro-Linguistic Programming (NLP) and Mind Power Techniques” Organized by LEJ University of Karachi in 2021.

9. 1st International Conference on Advances in Material Sciences and Environmental Engineering 2021 (ICAMSEE-2021) Organized by NED University of Science & Technology Karachi Pakistan (participated as Guest Speaker).
10. Workshop attended on “Mentoring” organized by Department of Medical Education of Bahria Medical & Dental College, Bahria University of Health Sciences Karachi Pakistan.
11. Workshop attended on “Fundamental of Qualitative & Quantitative Research with special reference to clinical nutrition” organized by Department of Medical Education of Bahria Medical & Dental College, Bahria University of Health Sciences Karachi Pakistan.

ACHIEVEMENTS /AWARDS/ COURSES

- **Invited as Guest Speaker** in “2nd International Conference on Biomaterials, Tissue Engineering & Regenerative Medicine” organized by Department of Material Sciences & Engineering, Institute of Space Technology (IST) in Islamabad, March 2022.
- **Invited as Oral Presenter** in “1st International Conference on Biotechnology” organized by Department of Biotechnology, University of Karachi, March 2022.
- **Invited as “Judge”** on 1st & 2nd Research Day at Altamash Institute of Dental Medicine, November 2021.
- **Member PhD Curriculum & Review Committee** of DOW University of Health Sciences (DUHS).
- **Member of National Review Board** of Journal of Bahria Medical & Dental College (JBUMDC).
- **General Secretary and Member of Board of Studies (BOS)** for Department of Science for Dental Materials DOW University of Health Sciences (DUHS).
- **Invited as Guest Speaker** in 1st International Conference on Advances in Material Sciences and Environmental Engineering 2021 (ICAMSEE-2021) Organized by NED University of Science & Technology Karachi (2021).
- **Established Dental Research Department** at Bahria Medical & Dental College (BUM&DC), Bahria University Karachi Pakistan (2021).
- **Dental Section Research Coordinator & Facilitator** at Bahria Medical & Dental College (BUM&DC), Bahria University Karachi Pakistan (2020)
- **Peer Reviewer and Ethical Committee member** for numerous HEC & PM&DC recognized journals both internationally and nationally (2020)



FUNDING SECURED & APPLIED FOR RESEARCH

- Collaborative Research Funding with Indonesian Government for Bio wastes & it's recycling (**FUNDING SECURED**).
- National Research Program for Universities (NRPU) of Higher Education Commission of Pakistan (HEC) Research Project Submitted as Co-Investigator in June 2021 (**FUNDING SECURED**).
- Vice Chancellors Research Funding's (VCSFI) of DOW University of Health Sciences (DUHS), Two Research Projects has been submitted on 4th September 2021.
- Research Funding from Bahria University of Health Sciences, Karachi (**FUNDING SECURED**).

RESEARCH COLLABORATIONS

- Bahria University of Health Sciences.
- PCSIR Research Laboratories Karachi.
- Zia Uddin Medical University, Karachi.
- DOW University of Health Sciences, Karachi.
- NED University of Science & Technology Karachi.
- Stem Cell Research Laboratories & Institute, the University of Karachi.
- Department of Material Sciences & Engineering, Institute of Space Technology (IST) Islamabad.
- Biomaterials & Molecular Lab Dow Dental College, Dow University of Health Sciences.
- Department of Biomaterials, Tissue Engineering & Regenerative Medicine, Institute of Space Technology (IST) Islamabad.
- Department of Materials Sciences & Engineering, Department of Biomaterials & Tissue Engineering, The University of Sheffield United Kingdom.
- Department of Materials Science & Engineering, Queen Mary University of London United Kingdom.