

**CURRICULUM VITAE**  
**MUHAMMAD NAVEED UMAR**

**PERSONAL INFORMATIONS**

Date of Birth: **03/03/1980** Gender: **Male**  
Nationality: **Pakistani**  
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**OBJECTIVE**

To work in a dynamic and challenging environment of good recognized organization. To have practical skills by applying my theoretical knowledge in the best regard of the organization and seeking a suitable position in reputable organization, where I can utilize and at the same time learn more in the field of chemical sciences.

**ACADEMIC RECORD**

Master Organic Chemistry Pakistan (2003)

M.Phil Organic Chemistry Pakistan (2005)

Phd Organic Synthetic Chemistry Jacobs University Bremen Germany (2010)

**MAJOR COURSES STUDIED IN CHEMISTRY**

Physical Chemistry

Inorganic Chemistry

Basic Mathematics for Chemistry

Chemistry of Glycosides

Polymer Chemistry

Pericyclic reactions

Biosynthesis of natural products

Reactive Intermediates

Organic polymer chemistry

Organic Chemistry

Analytical Chemistry

General Labs (Inorganic/Organic/ Physical)

Environmental Chemistry

Spectroscopy

Advance stereochemistry

Nuclear magnetic resonance spectroscopy

Advance mass spectrometry

**RESEARCH TOPIC IN M.Phil**

- Synthesis of 8-hydroxy-6-methoxy-3-pentylisocoumarin from *SesquicilliumCandelabrum*  
 & Synthesis of some Unnaturally occurring isocoumarins.

**RESEARCH TOPIC IN PhD**

- Synthesis of Picolylamine Template Catalysts and its application in Asymmetric Aldol Reactions.
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**PROJECTS**

- Study the Application of Transfer Hydrogenation in Reductive Amination.  
 Study the Effect of Additives on Asymmetric Reductive Amination.  
 Study the Effect of Different Lewis Acids on Asymmetric Reductive Amination.  
 Synthesis of New Thiourea Organocatalysts and Testing their Application.  
 Synthesis of New Formamide Organocatalysts and Testing their Application.  
 Synthesis of Novel Catalysts for Enantioselective Reductive Amination.  
 Synthesis of Novel Chiral Amines on Multi-gram Scale.  
 Synthesis of Diketones as key intermediates for Chiral Diamine.  
 Synthesis of Chiral amine and its application as catalysts in drugs synthesis.

**LABORATORY SKILLS**

- The use of different chromatographic techniques (GC, HPLC, GC-MS) for natural products isolation and purification.  
 The use of NMR for identification for different organic compounds.  
 The use of different animal models in determination of pharmacological activity of natural products.  
 Organic synthesis skills (handling of air sensitive reaction, high and low temperature reactions, micro and multi-gram scale reactions and multistep synthesis).  
 Inorganic synthesis skills.  
 The use of different purification techniques on small and large scale reactions (crystallization, Kugelrohr distillation and chromatography).
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**SEMINARS AND CONFERENCES**

5th International Chemistry Conference held in November 2004 in QAU.

Workshop on combinatorial chemistry in may 2004 by Prof. Dr Rademann of Berlin university Germany.

**REFERENCES**

Reference letter can be provided on my request from the following professors.

**1. Prof. Dr. Thomas C. Nugent**

PhD USA

Department of chemistry

Jacobs University Bremen,

Germany

**2. Prof. Dr. Nasim Hasan Rama**

PhD UK

Department of chemistry

Quaid-I-Azam University

Islamabad

**3. Prof. Dr. Saddiq**

PhD Hong Kong

Department of chemistry

Quaid-I-Azam University

Islamabad

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