

Curriculum Vitae

Mohammad Shoaib: Assistant Professor,
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Date of Birth: 02.December.1983

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Highlights:

- (1) Organic chemist with more than 03 years research experiences.
- (2) Hard- and professional researcher who can create, design and execute project independently.

Academic Qualifications:

Degree	Month/Year	University
F.Sc. (Pre-medical)	1998-2000	BISESS Swat, NWFP, Pakistan
B. Pharmacy (Hons.)	2001-2005	University of Malakand, Pakistan
Ph.D. (Synthetic Organic Chem.)	Mar 2007-Feb 2011	Jacobs University, Bremen, Germany.

Ph.D. Thesis:

“Asymmetric Michael addition of carbonyl compounds to nitroalkenes using simple organocatalysts”

Research experience:

1. Synthesis of different picolylamine based chiral primary amines and their applications in Asymmetric Michael reactions.
2. Study the effect of different hydrogen bond donors and bases on the asymmetric Michael addition of substituted aldehydes to nitroolefins catalyzed by amino acids.
3. Synthesis of different chiral tertiary thioureas and their screening as organocatalysts for asymmetric desymmetrization of meso-diols.

Laboratory skills:

- The use of different chromatographic techniques e.g. GC, HPLC, and silica gel chromatography.
- NMR
- MS
- Organic synthesis skills.
- The use of different purification techniques on small and large scale reactions (crystallization, Kugelrohr distillation and chromatography).
- Multi gram synthesis

List of Research Publications:

- Practical access to highly enantioenriched quaternary carbon Michael adducts using simple organocatalysts
T. C. Nugent,* **M. Shoaib**, A. Shoaib
Org. and BioMol. Chem. 2010

Computer Skills:

- Literature search software Reaxys, SciFinder.
- ISIS draw, Chem-sketch, and ChemDraw.
- MS Word, Excel, PowerPoint *etc*

Languages:

English: Fluent.

Urdu: Fluent.

Pashto: Native.

References:

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

- Professor Thomas C. Nugent
t.nugent@jacobs-university.de
- Professor Muhammad Afzal Subhani
afzal.subhani@CatalyticCenter.RWTH-Aachen.de