

Dr Abdul Hameed

Assistant Professor
(HEJ Research Institute of Chemistry)

Profession:

Organic Chemistry
(Synthetic Organic Chemistry Skills)

Office Address:

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Area of Research: (Synthetic Organic Chemistry)

Research Interests:

- Development of Novel Methodologies
- Asymmetric Natural Products Total Synthesis

Education

The University of Nottingham, UK (2009)
PhD (Organic Chemistry)

Project: Enantioselective formal syntheses of (+)-Lactacystin, (-)-Cephalotaxine and progress towards (-)-Kaitocephalin *via* Alkylidene carbene 1,5-CH insertion reaction.

The University of Punjab, Pakistan (2003)
MSc (Chemistry)

The University of Punjab, Pakistan (2001)
BSc (Chemistry, Zoology)

Skills Profile

Organizational and administrative skills

- Experienced in prioritization of own work.

- Proficient in budget management and financial analysis required for projects completion.
- Responsible for the identification, costing and purchase of chemicals.
- Experienced with training in interpretation and application of health and safety policy in a higher education environment.
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Communication

- Presentation of research results in the school of chemistry annual meetings.
- Ability to communicate with individuals at all levels.

I.T Skills

- Established experience in use and maintenance of a wide range of software (MS-Office, ChemDraw Ultra, NMR processing softwares (MestReC, Xwinnmr, Topspin), Sci-finder Scholar for literature searching etc.)

Research/Report Writing

- Skilled in the all data collection (NMR spectrums, Mass spectrum, Optical rotation data, Infrared spectrum, X-ray crystallographic data, CHN analysis etc.), interpretation, and its analysis.
- Experienced in presentation of results and skilled in manuscript preparation for Peer-reviewed journals.

Employment History

Environmental Chemist, SGS (Switzerland) Lahore, Pakistan (May 2005 to August 2005)

I have worked as a chemist in environmental division. I have been involved in the monitoring the sampling of drinking and waste-water from the industries in the different areas of Pakistan.

Organization membership:

Member of Royal Society of Chemistry, UK (MRSC)

Conferences:

- East Midland Annual Conference 2006, 2007
- Bristol Synthesis Meeting 2006
- Sheffield Stereochemistry 2007, 2008

Awarded projects:

Enantioselective total synthesis of (-)-Kaitocephalin (Six million PK rupees research project funded via HEC Pakistan)

Collaborators:

Dr Fatima Z. Basha, ICCBS, HEJ, Research Institute of Chemistry, University of Karachi, Pakistan

Dr. Christopher J. Hayes, School of Chemistry, The University of Nottingham, UK

Publications:

"A second generation formal synthesis of (-)-cephalotaxine"
Hameed, A.; Black, A. J.; Hayes, C. J. *J. Org. Chem.* 2008, 73, (20), 8045-8048. <http://pubs.acs.org/doi/abs/10.1021/jo801540q>

"An Enantioselective Formal Synthesis of (+)-Lactacystin from Hydroxymethyl Glutamic Acid (HMG)" **Hameed, A.**; Blake, A. J.; Hayes, C. J. *SynLett*, 2009, (Online available). <https://www.thieme-connect.com/ejournals/abstract/synlett/doi/10.1055/s-0029-1219207>