

Mohammad Aatif

Ph.D Biochemistry, Assistant Professor

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ACADEMIC PROFILE

2005- 2012	Ph.D Biochemistry Aligarh Muslim University , Aligarh, India (2012)
2003-2005	Masters of Biotechnology Kumaun University, Nanital, India (2005)
2000-2003	Bachelor of Sciences Chemistry, Biotechnology M. J. P.R. University , M. J. P.R. University , India (2003)

EMPLOYMENT HISTORY/WORK EXPERIENCE/POSITIONS HELD

Aug 2014 to Present	Assistant Professor , Department of Public Health, College of Applied Medical Sciences, King Faisal University, Al-Ahsa, KSA
July 2012 to Aug 2014	Research Associate Department Of Biochemistry , Faculty of Life Sciences, Aligarh Muslim University, India
Feb 2011 to Oct 2012	Project Fellow (UGC) Department of Biochemistry, Faculty of Life Science Aligarh Muslim University, India

PROFESSIONAL MEMBERSHIPS

Accepted as Editorial member of “[Journal of Public Health Issues and Practices](#) ”
Student member, European Federation of Biotechnology
Research Fellow Membership, The Indian Science Congress Association (ISCA)

HONORS/AWARDS

Senior Research Fellowship awarded by Indian Council of Medical Research (ICMR) 2011-2012.
Received UGC fellowship for research 2006-2010.

PROJECT WORK SUPERVISION

Guided 2 M.Sc. students for Project dissertation work from August 2011- July 2012.
Guided 3 B.Sc. students for Project dissertation work from August 2008-July 2010.

Carried out an MSc project work entitled “Isolation of DNA from two different ruminant and process of PCR monitoring of k-casein gene through Real-Time PCR” at C.I.F-Bioengineering, Indian Veterinary Research Institute (IVRI) Izatnagar, India.

PUBLICATIONS

Peer reviewed Articles

- 1) Priyadarshini M, Arivarasu NA, Tabrez S, **Aatif M**. Microna: Novel Modulators of the Cholinergic Anti-Inflammatory Pathway. *Anti. Antiall. Age. Med. Chem.* 2013
- 2) Shah A, Priyadarshini M, Khan MS, **Aatif M**, Amin F., Bano B. Biochemical, Immunological and Kinetic Characterisation of Thiol Protease Inhibitor (Cystatin) from Liver. *Appl Biochem Biotechnol* (2013) 171:667–675
- 3) Priyadarshini M, **Aatif M**, Bano B. Alpha-linolenic acid protects against gentamicin induced toxicity. *Research and Reports in Biochemistry.* (2012) :2 25 – 29.
- 4) Shah A, Khan MS, Priyadarshini M, **Aatif M**, Bano B. Spectral Methods of Characterizing the Conformational Changes of Glycated Goat Liver Cystatin. 2012:9,
- 5) Shah A, **Aatif M**, Priyadarshini M, Khan MS, Amin F, Bano B. Studies on the Chemical Modification of Goat Liver Cystatin and the Effect on Its Anti-Papain Inhibitory Activity. *Journal of Fluorescence.* 2012.
- 6) **Aatif M**, Rahman S, Bano B. Protein unfolding studies of thiol-proteinase inhibitor from goat (*Capra hircus*) muscle in presence of Urea and GdnHCl as denaturants. *Eur Biophys J.* 2011. 40(5):611-7.
- 7) Ullah MF. **Aatif M**. The footprints of cancer development: Cancer biomarkers. *Cancer Treatment Reviews.* 2009.35:193-200.
- 8) Khan IM, Ahmad A, **Aatif M**. Synthesis, single-crystal characterization, antimicrobial activity and remarkable in vitro DNA interaction of hydrogen-bonded proton-transfer complex of 1,10-phenanthroline with 2,4,6-trinitrophenol. *J Photochem Photobiol B.* 2011, 105(1):6-13.
- 9) Mohammad S, Khanam S, Firdaus, **Aatif M**. Template synthesis and spectroscopic characterization of 16-membered [N4] Schiff-base macrocyclic complexes of Co (II), Ni (II), Cu (II) and Zn (II): In-vitro DNA binding studies. *Journal of Coordination Chemistry.* 2011. 64, 18, 3158-3168.
- 10) Mohammad S, Khanam S, **Aatif M**. Synthesis, Spectroscopic characterization, DNA interaction and antibacterial activity of metal complexes of tetraazamacrocyclic Schiff base . *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy.* 93, 2012, 354-362.

Book chapter

- 1) **Aatif M** , Ullah MF, Bano B. Cysteine Protease “Cathepsins” and Their Endogenous Inhibitors “Cystatins” as Potential Biomarkers in Cancer Disease. Nova Science Publishers, 2010; Chapter 19.

- 2) Mohammad F. Ullah, Showket H. Bhat, Eram Hussain, Faisal Abu-Duhier, Husain Y. Khan, **Aatif M.**, Aamir Ahmad, S. M. Hadi. Dietary Phenolics as Cancer Chemopreventive Nutraceuticals: A Promising Paradigm. Bentham sciences

PRESENTATIONS

Conference

- Saudi Health Exhibition and Conference 2015. Riyad , May 18-20, 2015
- First International conference on Biotechnology, King Fahad Cultural Center, Riyad, Saudi Arabia. 2009. (Accepted for Poster presentation)
- National Symposium on **Emerging Trends in Biological Sciences**: Special emphasis on Neurosciences, Interdisciplinary Brain Research Centre (IBRC), Aligarh-2012
- **Aligarh Nano-II** conference on nanoscience and nanotechnology, Z.H college of Engg. And tech. Aligarh Muslim University, Aligarh-2012
- Silver Jubilee Symposium on “Emerging Trends in Biochemical and Toxicological Sciences” Aligarh Muslim University, Aligarh-2012 **(Poster presented)**
- National Symposium MAASCON-1 “Frontier in Life Sciences: Basic and Applied” Aligarh Muslim University, Aligarh-2010
- Biosparks 2010-VIIIth Annual research festival of School of Life Science, JNU, New Delhi, 2010. **(Poster presented)**
- SFRR Satellite India 2008 Conference. AIIMS, New Delhi -2008 **(Poster presented)**.
- National Symposium on “Recent Advances in Biochemistry and Allied Sciences”. Aligarh Muslim University -2008 **(Poster presented)**.
- Attended a Summer course on “**Basic Genetic Engineering**” at Aligarh Summer University at Jamia Hamdard , New Delhi .2007
- **National Science Day** Program held in the Department of Biochemistry, Faculty of Life Sciences, Aligarh Muslim University- **2006,07,08**.
- Attended a “National Conference on Plant Biotechnology Biodiversity & Ecorestoration for Global Prosperity”. Bareilly College Bareilly, M.J.P Rohaikhand University- 2008

Workshops

- Motivating and Engaging Students, KFU, March 8, 2018
- Effective Teaching : Tips and Tricks, KFU, March 7, 2018
- Applying Transformational Outcome Based Education, KFU, Feb 16-18, 2016
- Risk Management and strategic Planning, KFU, December 9-10, 2015.
- Student - centered learning and teaching: concept, theory and application, KFU, November 18-19, 2015.
- Assessment of students Learning and Performance, KFU, May 10-11, 2015.
- Dealing with Research Failure and Turning it into Success, KFU , March 10- 11, 2015
- Quality Management System, KFU , March 10, 2015
- Course Report Based On NCAAA, KFU , March 4, 2015
- Intended Learning Outcomes, KFU, Feb 22, 2015
- Student Assessment & Test Construction Workshop, KFU, October 21, 2014.
- Antibiotic resistance: the biggest medical problem we face today, KFU, November 8, 2014
- Orientation & Training Program for New faculty, KFU, September 17, 2014
- Workshop on “SCIENTIFIC/RESEARCH PAPER WRITING” University of Udaipur, 2013.

- Interaction Program on “Research Methodology in Biological Science” organized by UGC Academic Staff College, Aligarh Muslim University, Aligarh-2011.
- Recent Advances in Biochemistry by UGC Academic Staff College, Aligarh Muslim University, Aligarh-2010.
- Workshop on “Data Analysis with R and SPSS” by UGC Academic Staff College, Aligarh Muslim University, Aligarh-2010.
- DBT workshop on “Genome Analysis: A Bioinformatic Approach” sponsored by the, Ministry of Science and Technology, Govt. of India. AMU-2007.
- Workshop on “Patenting: What, Why & How” at Kumaun University Nainital-2006.
- Workshop on “Enhancing Science Coverage in Mass Media” at Indian Veterinary Research Institute (IVRI), Izatnagar -2005.

TECHNICAL AND LABORATORY EXPERIENCE

Protein Biochemistry:

Protein estimation assays (Bradford and Lowry method), PAGE (Poly-Acrylamide Gel Electrophoresis) & SDS-PAGE, Molecular weight analysis through gel electrophoresis and column chromatography, Enzymes assays, enzyme kinetics, UV-VIS spectroscopy, Spectro-fluorimetric analyses, Chromatographic techniques (Thin layer chromatography, Paper chromatography, Size-exclusion chromatography and Ion-exchange chromatography)

Molecular Biology & Tissue culture techniques:

Isolation of genomic DNA, Plasmid DNA, Dissolution of precipitated DNA, Agarose gel electrophoresis, Qualitative analysis of DNA, PCR, Real time-PCR, RAPD and RFLP analysis of DNA animal tissue culture, Plant tissue culture, Cell cytotoxicity assays, MTT assays.

Microbiology & Immunological technique:

Preparation of media, Isolation of pure culture, Antimicrobial susceptibility test and all basic microbiological techniques, Raising of antibodies, ELISA, Ouchterlony immunodiffusion.

Biophysical studies:

Folding/ Unfolding/ Misfolding studies, Characterization of proteins using CD, FTIR and spectro-fluorimetry, Drug-protein interactions, Protein-protein interaction.

Computer skills:

Working knowledge of Internet, Windows -7, Vista, XP, MS Word, Excel, Power point.

Place: AL- Ahsa, KSA

Date: 12/ 03/2018

(Mohammad Aatif)