

BRIEF RESUME

Prof. Arif Ahmad
(Ph.D. Zoology)

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Mb. No. 9703462175

Present Position:

Professor (Zoology)

School of Sciences (Zoology)

Maulana Azad National Urdu University (A Central University), Hyderabad,

Academic Qualifications:

2012-15	PDF (DST-SERB-Young Scientist)	AMU, Aligarh
2004-08	Ph.D. (Biosciences)	JMI, New Delhi
2001-03	M.Sc. (Zoology)	AMU, Aligarh
1998-01	B.Sc. (Hons.) Zoology	AMU, Aligarh

Fellowships:

2012-15	DST-SERB Young Scientist
2004-08	CSIR/UGC (NET) JRF/SRF
2004	GATE (90.2 percentile)

Teaching & Research Experience:

Fifteen years of Teaching and Twenty years of Research experience including JRF, SRF, PDF (DST-SERB Young Scientist) and Assistant Professor and Professor.

Ph.D. Supervised:

Two Ph.D. students were awarded and four are working.

Important Publications:

1. Fertility and Sterility	(IF: 7.41)	Amer. Soc. Rep. Med.
2. Translational Oncology	(IF: 5.01)	Elsevier
3. Journal of Cellular Biochemistry	(IF: 4.48)	Wiley-Blackwell
4. Scientific Reports	(IF: 4.60)	Springer Nature
5. Cancer Biomarker	(IF: 3.85)	IOS Press
6. Amer. J. Rep. Immun.	(IF: 3.71)	John Wiley & Sons Ltd.
7. Journal of Molecular Structure	(IF: 3.84)	Elsevier
8. Polycyclic Aromatic Compounds	(IF: 2.40)	Taylor & Francis
9. Journal of Gastrointestinal Cancer	(IF: 2.03)	Springer
10. European Journal of Exp. Biology	(IF: 1.91)	iMedPub

Books & Book Chapters:

Six books and 70 Book Chapters in edited Books

DNA Sequences Submitted At Gene bank (NCBI):

Submitted partial sequences of *human FHIT gene*, *Mitochondrial Cytochrome b gene* and *Cytochrome Oxidase Subunit I (COI) gene* sequences of some fishes.

RESUME

ARIF AHMAD (Ph.D.)

Present Position:

Professor
School of Sciences (Zoology)
Maulana Azad National Urdu University
(A Central University)
Hyderabad, Telangana

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Online Access to Academic Credentials



- * University Employee ID: 819
- * Scopus: <https://www.scopus.com/authid/detail.uri?authorId=57214160575>
- * Vidwan-ID: 226520
- * ORCID: 0000-0001-5973-8470
- * Research Gate: <https://www.researchgate.net/profile/Arif-Ahmad-8>
- * Google Scholar: <https://scholar.google.com/citations?hl=en&user=AeoZ33sAAAAJ>
- * Web of Science Researcher ID: JDW-5643-2023

Academic Qualifications:

- 2012-15 **Young Scientist:** on SERB-DST, funded Project entitled “*Genetic characterization of threatened catfishes (Wallago attu and Mystus seenghala) using RAPD markers*” executed in the department of Zoology, AMU Aligarh.
- 2004-08 **Ph.D. (Biosciences):** on the thesis topic: “*Molecular studies of p16 gene in Indian cervical cancer patients*” under the supervision of Prof. Syed Akhtar Husain from Department of Biosciences, Jamia Millia Islamia, New Delhi.
- 2001-03 **M.Sc. (Zoology):** Aligarh Muslim University, 73.4%
- 1998-01 **B.Sc. (Hons)-Zoology:** Aligarh Muslim University, 66.4%
- 1997 **Class XII:** Senior Secondary School, AMU Aligarh, 60.2%
- 1995 **Class X:** ST High School, AMU, Aligarh, 74.6%

Fellowships:

- | | |
|---------|--------------------------------|
| 2012-15 | Young Scientist (DST) |
| 2011-12 | Research Assistant (CCRU) |
| 2006-08 | CSIR (NET) SRF |
| 2004-06 | CSIR/UGC (NET) JRF |
| 2004 | GATE (90.2 percentile) |
| 2002 | CSIR/UGC (NET) LS |
| 2001 | Postgraduate Merit Scholarship |

Teaching Experience:

- 2024- Now **Professor of Zoology:** School of Sciences (Zoology) Maulana Azad National Urdu University, Hyderabad, Telangana.
- 2019- 2024 **Senior Assistant Professor:** School of Sciences (Zoology) Maulana Azad National Urdu University, Hyderabad, Telangana.
- 2015-2019 **Assistant Professor:** Department of Zoology, School of Sciences, Maulana Azad National Urdu University, Hyderabad, Telangana.
- 2010-2014 **Prof/Guest Faculty:** Department of Zoology, AMU Aligarh.

Research Experience:

- 2024-Now **Professor of Zoology:** School of Sciences (Zoology) Maulana Azad National Urdu University, Hyderabad, Telangana.
- 2015- 2024 **Assistant Professor:** School of Sciences (Zoology), Maulana Azad National Urdu University, Hyderabad,
- 2012-2015 **Young Scientist (DST-SERB):** Department of Zoology, AMU Aligarh
- 2009-2012 **Post-doctoral Fellow:** Laboratory of Prof. Iqbal Parwez, Department of Zoology, Aligarh Muslim University.
- 2006-2008 **Senior Research Fellow:** CSIR, Department of Biosciences, Jamia Millia Islamia, New Delhi, India and Institute of Cytology and Preventive Oncology, (ICMR), India.
- 2004-2006 **Junior Research Fellow:** CSIR, Department of Biosciences, Jamia Millia Islamia, New Delhi, India and Institute of Cytology and Preventive Oncology, (ICMR), India.

Research Interest:

* **Molecular Mechanism of HPV-induced Cervical Cancer:**

Our research group in collaboration with other institutes and hospitals is working on the molecular mechanism of HPV-induced cervical carcinogenesis. The focal area of interest is to determine the correlation of HPV viral load with the expression of some of the host tumor suppressors and viral oncoproteins. We are also trying to establish the correlation of epigenetic modification of the viral genome with the expression of some of the host genes. Our research aims to develop molecular biomarkers for the early diagnosis of cervical cancer.

* **Pharmacological effect Medicinal Plants extract on Hepatocellular carcinoma in the animal model.**

Our other research group is working on determining the Pharmacological effects of some of the Medicinal Plant extracts on Hepatocellular carcinoma in an animal model through various molecular, biochemical, and pharmacological parameters. Our research aims to identify potential therapeutic biomolecules for the management of hepatocellular carcinoma.

Research Guidance:

1. Dr. Bilal Ahmad Mir

Ph.D. title: “*Determination of the viral load and quantification of HPV Oncoprotein E6 & E7 and cellular markers p53 & pRb in the progression of cervical cancer.*”

Supervisor: Prof. P.F. Rahaman

Co-Supervisor: Dr. Arif Ahmad

Status: Ph.D. Degree awarded on 6th Dec. 2022, Presently working as Post Doc. Fellow University of Michigan.

2. Dr. Nighat Farooq

Ph.D. title: “*Study of Correlation of viral load and epigenetic modification of genomic and HPV-DNA in pre-cancerous and cancer stages of cervical cancer.*”

Co-Supervisors: Prof. P.F. Rahaman (School of Sciences, MANUU) and Dr. Vishnu Priya (MNJ Hospital, Hyd.)

Status: Ph.D. Degree awarded on 17th July 2023). Presently working as Acad. Coordinator, Srinagar, MANUU.

3. Ms. Nighat Gul:

Ph.D. title: “*Synergistic effect of Some Medicinal Plants extracts on the progression of Hepato-cellular Carcinoma in Animal Model.*”

Co-Supervisors: Dr. Sumbul Rahaman (Assistant Professor, AMU Aligarh)

Status: Pre-submission seminar held on 24th July 2024.

4. Mrs. Nishat Afroz:

Ph.D. title: “*Evaluation of TBP2, ASK1 and P53 protein expression to find out the preventive and Curative Potential of Curcumin and Piperine on the Progression of Hepato-cellular Carcinoma in Animal Model.*”

Co-Supervisors: **Dr. Saima Wajid**, Associate Professor, Dept. of Biotechnology, Jamia Hamdard, New Delhi

Status: Ph.D. Pursuing, Availing CSIR/UGC-NET-JRF

5. Mrs. Sariya Nomana:

Ph.D. title: “*Expression study of PTEN and MMT-2 genes and circROCK1-E3/E4 RNA to explore the Synergistic effect Curcumin and Piperine against Hepatocellular Carcinoma in animal model*”

Status: Pursuing

6. Mrs. Shabista Rahmani:

Status: Pursuing course work, Qualify CSIR/UGC-NET

Research Projects:

1. SERB-DST Young Scientist Project title “Genetic characterization of threatened catfishes (*Wallago attu* and *Mystus seenghala*) using RAPD markers”. Funding Agency: SERB-DST, New Delhi. Project implemented at Department of Zoology, AMU Aligarh. (1st Feb. 2012 to 31st Jan. 2015). Sanction Letter No. F.NO.SR/FT/LS-143/2009 dated: 13th Jan. 2012. Sanctioned Amount: Rs. 23,00,000/-
2. Minor Research Project under Research & Innovation Scheme (UGC). “*Molecular characterization and estimation of Genetic diversity of few economically important fish species based on sequence variations in Mitochondrial Cytochrome b gene.*” Funding Agency: UGC New Delhi. Project implemented at Department of Zoology, Maulana Azad National Urdu University, Hyderabad. (6th Dec. 2016 to 5th Dec.2017). No. MANUU/Acad/F.404/2016-17/217 dated 6th Dec. 2016. Sanctioned Amount: Rs.1,05,000/-
3. ICMR funded Project entitled “*Molecular Analysis of the promising immunoregulatory pathway involved in Recurrent Pregnancy Loss (RPL)*” Principle Investigator: Dr. Parveen Jahan, Co-Principal Investigator Dr. Arif Ahmad, Department of Zoology, School of Sciences, MANUU. Hyd. Dr. Rajeshwari, Head, Department of Obstetrics & Gynecology, Niloufer Hospital, Hyderabad. Sanctioned No. 5/7/59/MH/Adhoc/2019-1022/RBMCH Dated: 3rd Sept. 2019. Project ID: 2019-1022. (1st Oct. 2019 to 30th Sept. 2022 extended to 31st March 2023). Sanctioned Amount: 48,13,625/-
4. Minor Research Project under Research & Innovation Scheme (UGC). “*Evaluation of Bcl-2 and p53 protein expression to find out the Synergistic effect of Some Medicinal Plants extracts on the Progression of lung Carcinoma in Animal Model*” Funding Agency: UGC New Delhi. Project implemented at Department of Zoology, Maulana Azad National Urdu University, Hyderabad. (18th Dec. 2023 to 31st Dec.2024). No. MANUU/DR&C/F.11/2023-24/105 dated 18th Dec. 2023. *Ongoing*. Sanctioned Amount: Rs. 1,20,000/-

Patent:

Patent Applied for method “*Screening of Mutations/SNPs through Spectrophotometric Melt-Curve Analysis*” through Novel IPR Educational Forum. Oct. 2024.

Major Research Contribution

- * Identification Novel point mutations of the SRY gene in two sex-reversed XY sisters.
- * Establishing role of hypermethylation of p16 and FHIT and their relationship with ER and PR status in breast cancer.

- * Role of some gene polymorphisms in type 2 diabetic patients with chronic kidney disease in North Indian population.
- * Development a Novel method of screening of Mutations/SNPs through Spectrophotometric Melt-Curve Analysis (**Applied for Patent**).
- * Role of synergic effect of HPV infection and epigenetic anomaly of the p16 gene in the development of cervical cancer.
- * Established the genetic association of a Polymorphic Variant of TCF7L2 Gene to Predict the Susceptibility of T2DM.
- * Reported the Viral load and interaction of HPV oncoprotein E6 and E7 with host cellular markers in the progression of cervical cancer.
- * Role of Physicochemical and fluorescence quenching of biologically active pyrrole-containing push-pull chromophore by Ag nanoparticles.
- * Established the role of HPV-E7 oncoprotein with a level of pRb proteins via high viral load in cervical cancer.
- * Effect of levels of sHLA-G in women with a history of RPL in mid-gestation pregnancy.

National and International Collaborations:

1. **Dr. M. Vishnu Priya**, Department of Radiation Oncology, MNJ Cancer Hospital, Hyderabad, India
2. **Dr. Athar Habib Siddiqui**, School of Medical Sciences, University of Hyderabad, India
3. **Prof. Hassan Mubarak Ishqi**, Department of Surgery. Miller School of Medicine, University of Miami, Miami, FL, USA
4. **Prof. Vineeta Batra**, Department of Pathology, G.B. Pant Hospital, New Delhi
5. **Prof. Mohammad Shahid**, College of Medicine, Prince Sattam bin Abdulaziz University, Alkharj, Saudi Arabia
6. **Prof. Mohd. Raish**, Department of Pharmaceutics, College of Pharmacy, King Saud University, Riyadh, Saudi Arabia
7. **Prof. Riaz Ahmad**, Section of Genetics, Department of Zoology
8. **Prof. Murtaza M. Tambuwala**, School of Pharmacy, Ulster University, Northern Ireland, Coleraine, County Londonderry, UK
9. **Dr. Sumbul Rehman**, Assistant Professor, Faculty of Unani Medicine, Aligarh Muslim University, Aligarh
10. **Dr. Saima Wajid**, Associate Professor, Department of Biotechnology, Jamia Hamdard, New Delhi

Academic/Administrative Responsibilities:

1. Academic Coordinator, B.Sc. (Life Sciences), School of Sciences (27.11. 2020 to 29.10.2021)
2. Academic Coordinator, Ph.D. Zoology, School of Sciences, MANUU, Hyd. (Nov. 2020 to now)
3. Academic Coordinator, Department of Zoology, MANUU. (1st Jan.2019 to 26th Nov. 2020)
4. Department of Zoology Coordinator for Internal Quality Assurance Cell. (16th May 2018 to now)
5. Subject Coordinator (Zoology), Directorate of Distance Education, MANUU.
6. Chief Examiner UG/PG/Certificate/Diploma (Distance Mode) Programme. Sept-Oct. 2018.
7. Polling Officer Student Union Election MANUU (2015,16,17,18 & 19).
8. Member TA/DA Disbursal Committee of National Urdu Science Congress. 16-17 Feb. 2017
9. Examiner Zoology B.Sc. I & II Sem. For the academic session of March/April 2017, Kakitya University.
10. Chairman Accommodation & Hospitality Committee of National Urdu Science Congress- Feb.2018.
11. Chairman Accommodation & Hospitality Committee of National Urdu Science Congress. Feb 2019.
12. Certificate Verification Officer of CUET-UG Merit-based programs on 20th Oct. 2022.
13. Convener, Discipline & Anti-Ragging, School of Sciences, 15th Oct. 2022.
14. Member Interview Board for Ph.D. (Zoology) Admission 2023-24
15. Academic Coordinator, M.Sc. Zoology (2023-Now).
16. Committee member Abstract Committee, Transport Committee and Accommodation & Hospitality Committee of International Urdu Science Congress. 4-5th March 2024.
17. Coordinator, Leech Breeding Station, MANUU, Hyd. (July 2024).
18. Co-opted Member of the organizing committee for the Annual Prize Distribution Function 2016-17. (30th March 2017).
19. Member Quiz Committee to organize Maulana Azad Day celebration (3-12 Nov.2017).
20. Member Quiz Committee to organize Maulana Azad Day celebration (5-15 Nov.2018).
21. Member Quiz Committee to organize Maulana Azad Day celebration (5-15 Nov.2019)
22. Section Head Zoology, 16th Jan. 2025 to till Now.

E-Content development:

Recorded Video lecture series as a Resource person for the development of Course material for B.Sc. (Zoology) at Instructional Media Centre, MANUU.

- * 27.3.17 Classification of Animals & Basis of Classification
- * 17.8.17 International Code of Zoological Nomenclature
(<https://www.youtube.com/watch?v=Q8TOLsNTSrK>)

- * 10.4.18 Chordates: Introduction, Origin & Classification

Mandatory Orientation Program / Refresher Course:

1. **Orientation Course (Special Summer School)** organized by UGC-Human Resource Development Centre, AMU, Aligarh during the period *24th May 2016 to 13th June 2016* and obtained grade 'A'.
2. **Refresher Course in "Life Sciences"** organized by UGC-Human Resource Development Centre, Maulana Azad National Urdu University, Hyderabad. Obtained grade 'A'. *30th Nov. 2017 to 20th Dec. 2017.*
3. **Refresher Course in "Life Sciences"** organized by UGC-Human Resource Development Centre, Maulana Azad National Urdu University, Hyderabad. Obtained grade 'A'. *17th Sept. to 30th Oct. 2020.*
4. **Refresher Course in Zoology** organised by Teaching Learning Centre (TLC) of Ramanujan College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMNMTT) scheme of the Ministry of Education from *16th Sept. to 30th Sept. 2023.*

Faculty Development Programs:

1. **Orientation Programs on Open & Distance Learning Multimedia Program Production**, organized by Instructional Media Centre, Maulana Azad National Urdu University, Hyderabad. *27th Feb. to 6th March 2017.*
2. **Short Term Course for Training Program on Academic Leadership** organized by UGC-Human Resource Development Centre, AMU, Aligarh at Maulana Azad National Urdu University, Hyderabad. *1st May 2017 to 6th May, 2017.*
3. **Workshop on Online Teaching, Learning and Assessment with Open Educational Resources, Education Technology Tools & MOOC Platform Program Production**, organized by the Instructional Media Centre, Maulana Azad National Urdu University from *27th to 29th Nov. 2017.*
4. **Faculty Development Program on "Training of Trainers (ToT) for teachers"** organized by National Institute of Technical Teachers' Training and Research (GOI, MHRD), Bhopal and Department of CS&IT, MANUU, Hyderabad. *11th to 15th Nov. 2019.*
5. **Five-Day Online Workshop on "Research Methodology"** organized by MANUU UGC-STRIDE Task Group 2020. *17th to 21st August 2020.*
6. **One Week Faculty Development Program on "E-Content Development and Online Pedagogy"** organized by UGC-HRDC, Maulana Azad National Urdu University. *25th Oct. to 30th Oct. 2021.*

7. **UGC Sponsored an online Short Term Course on “Quality in Research”** organized by UGC-Human Resource Development Centre, AMU, Aligarh from 21st to 27th Sept. 2022.
8. Faculty Development Programme entitled ‘**National Education Policy 2020-Orientation and Sensitization Programme**’ conducted by the UGC-Malaviya Mission Teacher Training Centre, Maulana Azad National Urdu University (**MMTTC-MANUU**) Hyderabad- 500032 from 1st to 10th May 2024.
9. Workshop on ‘**Institutional Development Plan**’ for faculty Members and Administrator conducted by the UGC-Malaviya Mission Teacher Training Centre, Maulana Azad National Urdu University (**MMTTC-MANUU**) Hyderabad- 500032 on 12th Aug. 2024.

Technical Expertise:

Quite well-versed in all the contemporary techniques of molecular biology such as;

- * Nucleic acid (DNA/RNA) & Protein isolation, purification, and estimation.
- * Single Stranded Conformational Polymorphism (SSCP) for mutation screening.
- * Polymerase Chain Reaction (PCR) and Methylation Specific PCR.
- * Gel electrophoresis: PAGE and Agarose. Northern and Western blotting.
- * Restriction Fragment Length Polymorphism (RFLP).
- * Random Amplified Polymorphic DNA (RAPD).
- * Primer/Probe designing.
- * Immunohistochemistry (IHC) and Immuno Diffusion Technique.

Bioinformatics / Computer Knowledge:

- * Working knowledge of Windows, MS Office, Internet explorer
- * Blast searching to analyze DNA sequence using software
- * ClustalW “Multiple Sequence Alignment”
- * BioEdit “Biological sequence alignment editor”
- * MultAlin “Multiple sequence alignment with hierarchical clustering”
- * Working knowledge of Biostatics/Bioinformatics software
- * Popgene (ver. 1, 31) Microsoft Window-based software for Population Genetic Analysis.
- * Tools For Population Genetic Analyses (TFPGA) A windows (TM) program for the analysis of allozyme and molecular population genetic data.
- * Arlequin ver 3.1 “An Integrated Software Package for Population Genetics Data Analysis”
- * Sigma Plot “A software programme for statistical analysis of data”

Membership of Professional Bodies:

- * Member of the *Indian Association for Cancer Research*
- 1. Life member “The *Indian Science Congress Association*” Kolkata, India. 7th June 2016
- 2. Editorial Board Member of Journal ‘*Oncology Clinics & Research*’.
- 3. Member and Subject expert *Board of Studies (BOS) in Zoology* for the Academic year 2018-19. Government City College, Hyderabad (Affiliated to Osmania University, Accredited with ‘A’ Grade by NAAC) (6.9.2018)
- 4. Member and Subject expert *Board of Studies (BOS) in Zoology* for the Academic year 2019-20 & 2020-21. Anwarul Uloom College, Hyderabad (7.10.2020).
- 5. Member, Board of Studies, Department of Zoology, MANUU, Hyd. (29.04.2015 to 25.03.2019).
- 6. Member, Sub-Committee-Zoology, Zoology Section, School of Sciences, MANUU. 25.11.2020 Till Now.
- 7. Member of Departmental Research Committee for Department of Zoology, MANUU. (from 12.8.2016 to 18.11.2019).
- 8. Member, Research Committee-Zoology, Zoology Section, School of Sciences, MANUU, Hyd. 27th July 2021 till Now.
- 9. Member, Research Advisory Committee, Zoology Section, School of Sciences, MANUU, Hyd. 19.01.2018 Till Now.
- 10. Member Executive Council MANUUTA (2015-16, 2017-18).
- 11. Subject Matter Expert to prepare best inputs to participate in the University in Life Style for Environment (LiFE) Global call for ideas conducted by Niti Aayog. (6th Oct 2022).
- 12. Member and Subject expert Board of Studies (BOS) in Zoology for the Academic year 2024-25, 2025-26 & 2026-27. Osmania College, Kurnool.

Reviewer of the Journals / Funding Agency:

1. DST-SERB: Early Career Research Award Scheme
2. Cancer Biomarker (IOS Press)
3. Micro-RNA (Bentham Science Publishers)
4. Journal of Advances in Medicine and Medical Research
5. Journal of Advances in Microbiology
6. Journal of Genetics and Cell Biology
7. Oncology & Clinics and Research (SciTech Central)
8. Bosnian Journal of Basic Medical Sciences (Association of Basic Medical Sciences)
9. Gene (Elsevier)
10. Archives of Microbiology (Springer-Nature)
11. Heliyon (Cell Press)

Editorial Board Member:

1. AS Microbiology: <https://www.actascientific.com/ASMI-EB.php>
2. Oncology Clinics & Research
3. General of Genetics & Cell Biology

Community service (Outreach programme):

* Core member of Aabir Bio-services Foundation:

Aabir Bio-Services Foundation (ABSF) is “not-for-profit” Non-Governmental Organization (NGO) and it is registered under section 8 of the Companies Act, 2013. Aabir Bio-Services Foundation is committed to bridge the gap between science and society through continuous public engagement programmes and knowledge transfer about common and preventable diseases in women and girls in India since its inception in 2011. <https://www.bio-services.org/dr-arif-ahmad-ph-d/>

DNA Sequences Submitted At Genebank (NCBI):

1. **A novel frameshift mutation (K77R) in the HMG- box of the SRY gene** in a patient with pure gonadal dysgenesis and XY chromosomal constitution. *Gene Bank Accession Number: AY818360 (01 Sequences).*
2. **Human diadenosine triphosphate (Ap3A) hydrolase (FHIT) gene**, exon 5 nucleotide sequence. Submitted (14-JUL-2006) Human Genetics Lab, Department of Biosciences, Jamia Millia Islamia (A Central University), Jamia Nagar, New Delhi, Delhi 110025, India. *Gene Bank Accession Numbers: DQ865131, DQ865132, DQ865133, DQ865134 (04 Sequences).*
3. Partial sequences of **Cytochrome b gene** of mitochondrial origin from the four *Channa* species (fishes). Iqbal Parwez, **Arif Ahmad**, Arif Mustafa Kamal, Subuhi Abidi, **Phani Kumar**, Kausar Neyaz (2015). *BankIt 1876266: KU245349 to KU245353 (05 Sequences).*
4. **Bar Coding Sequences of Cytochrome oxidase subunit I (COI) gene**, partial cds; mitochondrial gene form four *Channa* species. **Arif Ahmad**, Adeel Malik, Mustafa Arif Kamal, Subuhi Abidi, Iqbal Parwez (14th June 2016). *Gene Bank Accession Numbers: KX389274 to KX389281 (10 Sequences).*
5. **Bar Coding Sequences of cytochrome oxidase subunit I (COI) gene**, partial cds; mitochondrial gene form Seven fish species *Wallago attu*, *H. fossilis*, *Rita rita*, *Oreochromis niloticus*, *Clarias batracus*, *Clarias gariepinus* *Mystus seenghala*, species. Imran, M., Ahmad, A., Malik, A., Rahaman, P.F., Shahid, M. and Parwez, I (12th March 2018). *Gene Bank Accession Numbers: MH047225 to MH047238 (14 Sequences).*

6. **Partial sequences of mitochondrial ‘Cytochrome b gene from catfishes** submitted to NCBI with Bankit No. MH047225-38. Imran, M., **Ahmad, A.**, Malik, A., Rahaman, P.F., Shahid, M. and Parwez, I (17th April 2018). *Gene Bank Accession Numbers: MH234609 to MH234632 (24 Sequences).*

Publications:

Mendeley Dataset DOI:10.17632/6t3zznpr5s.1

- 1) Shahid M, Dhillon VS, Hussain Z, Masa JF, Aslam M, Raish M, **Ahmad A**, Khan NJ, Prasad S, Batra S, Pasha ST, Husain SA (2008). *Analysis of the SRY gene in two sex-reversed XY sisters identifies two new novel point mutations in the high mobility group box domain. Fertility and Sterility*, 90(4):1199.e1-e8 Publisher: **American Society for Reproductive Medicine. IF: 7.49**, CiteScore: 11.3; Citations: 23
ISSN: 00150282, e-ISSN 15565653. Sr. No. in UGC listed Journals is 29326. SCOPUS Source record ID: 12705. UGC CARE Listed (Web of Science, Scopus). PMID: 18304538. DOI: 10.1016/j.fertnstert.2007.11.062.
- 2) Raish M, Dhillon VS, **Ahmad A**, Ansari MA, Mudassar S, Shahid M, Batra V, Gupta P, Das BC, Shukla NK, Husain SA (2009). *Promoter Hypermethylation in Tumor Suppressing Genes p16 and FHIT and their relationship with estrogen receptor and progesterone receptor status in breast cancer patients from Northern India. Translational Oncology*, December 1; 2(4): 264–270. Publisher: **ELSEVIER. IF: 5.0**, CiteScore: 8.4; Citation: 29
ISSN: 19365233. SCOPUS Source record ID: 19700175014. UGC CARE Listed (Web of Science, Scopus). PMID: 19956388. DOI: 10.1593/tlo.09148.
- 3) Areeba Ahmad, Veena Maheshwari, **Arif Ahmad**, Rashid Saleem, Riaz Ahmad (2012). *Observation of Esterase-Like-Albumin Activity during N'- Nitrosodimethyl amine Induced Hepatic Fibrosis in a Mammalian Model. Macedonian Journal of Medical Sciences* (Continue as Open Access Macedonian Journal of Medical Sciences). 5(1):55-61. Publisher; **Institute of Immunobiology and Human Genetics. IF: 1.27**, Citation: 24.
ISSN: 18575749. e-ISSN: 18575773. Sr. No. in UGC listed Journals is 5671. (Scopus Source record ID: 19600157021). Peer Reviewed. UGC CARE Listed (Scopus). DOI: 10.3889/MJMS.1857-5773.2012.0214.
- 4) Neelofar K, Ahmad J, **Ahmad A**, Alam K. (19th Dec. 2016). *Study of IL4-590C/T and IL6-174G/C gene polymorphisms in type2 diabetic patients with chronic kidney disease in North*

Indian population. Journal of Cellular Biochemistry. Jul;118(7):1803-1809. Publisher: **Wiley-Blackwell**. IF: 4.48, CiteScore: 9.9; Citations: 29.

ISSN: 07302312. Sr. No. in UGC listed Journals is 21802. (Scopus Source record ID: 17598). UGC CARE Listed (Web of Science, Scopus). PMID: 27996163. DOI: 10.1002/jcb.25853.

- 5) Shahid M, Joshi S; Nasser RA, Alsaidan M, Aldossari K, Abuderman AWA, Aldowsar M, Al-Ghamdi S, Balto HA, Al-Hammad N, Agrawal S, Shah AH, **Ahmad A**, Dhillon VS (**June 2017**). *Single Nucleotide Polymorphism (SNPs) in the Genes Associated with Tooth Agenesis. European Journal of Experimental Biology.* Vol.7 (3) 17. 1-13, Publisher: **iMedPub**. IF: 1.91, Cite Score:30; H-indexed citation: 35.
- ISSN No: 22489215. PubMed NLM ID: 101567726. Peer-Reviewed. doi: 10.21767/2248-9215.100017.

- 6) **Arif Ahmad**, Mohammad Shahid, Mohammad Raish, Syed Akhtar Husain (**Feb. 2017**). *Screening of Mutations/SNPs through Spectrophotometric Melt-Curve Analysis: A preliminary study on the non-electrophoretic and no-dye method of mutation detection. Advanced Techniques in Biology & Medicine.* 5.1. 2-4. Publisher: **OMICS International**. IF: 2.3; Journal h-index : 14 Journal cite score : 4.03
- eISSN: 23791764. Peer-Reviewed. DOI: 10.4172/2379-1764.1000214.

- 7) **Arif Ahmad**, Mohammad Raish, Mohammad Shahid, Swaraj Batra, Vineeta Batra, Syed Akhtar Husain (**4th July 2017**). *The synergic effect of HPV infection and epigenetic anomaly of the p16 gene in the development of cervical cancer. Cancer Biomarkers.* 19(4): 375–381. Publisher: **IOS Press**. IF 2023: 3.1; CiteScore: 7.3. Citation: 11,
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64. Asif M & **Ahmad A.** *Restriction digestion of plasmid DNA/genomic DNA.* Block V, Unit 18: pp 14-27.
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13. Parveen Jahan, Bhuwalka R, Dirsipam K, Madduru D, **Ahmad A**, Bonu R (2022). *Predominant Pro-inflammatory Environment with Diminished T-regulatory Cells in Mid Gestation Pregnant Women with the History of RPL: A South Indian Study*. 50th Annual Scientific Meeting for ASI 2022. Melbourne., Australia. REGD No: 528. 29th Nov. to 2nd Dec. 2022.
14. Nighat Gul, **Arif Ahmad**, Sumbul Rahman (2023). “*Study of Molecular signaling Pathways of the glycoalkaloid Solanine from Solanum nigrum that attenuates Hepatocellular Carcinoma*” in 5th international Halich online Congress on Multidisciplinary Scientific Research organized by IKSAD institute Istanbul, Turkiye. 15th & 16th Jan. 2023.
15. **Arif Ahmad**, Nighat Farooq, Vishnu Priya, Asif Msif, P.F. Rahaman (2023). *HPV Viral load as a biomarker for screening of cervical precancerous and cancer stages*. First International Science Conference, Maulana Azad National Urdu University, Hyderabad. 27th & 28th Feb. 2023.
16. **Arif Ahmad**, Bilal Ahmad Mir, Nighat Farooq, M. Vishnu Priya, P.F. Rahaman (2024). *Role of HPV viral load and expression of HPVE6 oncoproteins and host p53 tumor suppressor proteins in the progression of cervical cancer*. International Urdu Science Conference, School of Sciences, Maulana Azad National Urdu University, Hyderabad. 4-5th March 2024.

Paper Presented in Urdu language:

1. **عارف احمد، محمد آصف:** آراءے پی ڈیٹکنیک کے ذریعے مچھلی کی اقسام (Wallago attu) اور (Mystis singhala) کی شناخت اخذ کرنا۔ نیشنل اردو سائنس کانگریس-2021۔ اسکول برائے سائنسی علوم۔ مولانا آزاد نیشنل اردو یونیورسٹی۔ حیدرآباد۔
2. **بیلال احمد میر، عارف احمد، محمد آصف، پی ایف رحمان۔** سرواٹکنیکس کے مختلف مراحل کی اسکریننگ اور خصوصیات کے لئے Western Blot تکنیک کے ذریعے p53 اور pRb ٹیٹن اظہار تجزیہ۔ نیشنل اردو سائنس کانگریس-2021۔ اسکول برائے سائنسی علوم۔ مولانا آزاد نیشنل اردو یونیورسٹی۔ حیدرآباد۔
3. **نگہت فاروق میر، عارف احمد، شنو پریا، محمد آصف، پی ایف رحمان۔** آر ٹی پی سی آر تکنیک کے ذریعے سرویکل پری کینسر اور کینسر کے مراحل کی اسکریننگ کے لیے پرائیج پی وی کے وائرل لوڈ باؤمار کر کے طور پر تعین۔ نیشنل اردو سائنس کانگریس-2021۔ اسکول برائے سائنسی علوم۔ مولانا آزاد نیشنل اردو یونیورسٹی۔ حیدرآباد۔
4. **سنبل رحمان، عارف احمد** دیسی دواؤں کی معیار بندی: تعارف و موازنہ۔ نیشنل اردو سائنس کانگریس-2021۔ اسکول برائے سائنسی علوم۔ مولانا آزاد نیشنل اردو یونیورسٹی۔ حیدرآباد۔

Conferences / Webinars/ Workshops Organized/Organizing Committee Member:

1. One day Workshop on “*Know your blood Group*” and Seminar lecture on the topic “*Importance of Blood Grouping in Blood donation*” organized by the Department of Zoology, Maulana Azad National Urdu University, Hyderabad, 22nd Sept. 2016.
2. One-day Seminar and Exhibition on “*Tuberculosis Awareness*” organized Department of Zoology, Maulana Azad National Urdu University, Hyderabad, 24th March 2017.
3. Two days hands-on Workshop on “*Tools and Techniques of Molecular Biology and Bioinformatics*” organized by Department of Zoology, Maulana Azad National Urdu University, Hyderabad, 6th & 7th Feb. 2018.
4. One-day Seminar on *Alzheimer’s disease Awareness* in the Department of Zoology, Maulana Azad National Urdu University, Hyderabad, 20th Sept.2018.
5. One-day Webinar on the eve of “*International Day of Immunology 2021*” sponsored by the Indian Immunology Society, AIIMS, New Delhi, organized by the School of Sciences (Zoology), Maulana Azad National Urdu University, Hyderabad. 29th April 2021.
6. One day Webinar on “*Cancer: Where Prevention is the cure*” on the occasion of National Cancer Awareness Day on 7th Nov. organized by School of Sciences (Zoology), Maulana Azad National Urdu University, Hyderabad. 8th Nov. 2021.
7. Seminar on “*International Day of Immunology 2023*” sponsored by Indian Immunology Society, AIIMS, New Delhi, organized by School of Sciences (Zoology), Maulana Azad National Urdu University, Hyderabad. 27th April 2023.
8. Seminar on “*World Sickle Cell Anemia Day-2023*” organized by School of Sciences (Zoology), Maulana Azad National Urdu University, Hyderabad. 19th June 2023.
9. Two days hands-on Workshop on “*Tools and Techniques of Molecular Biology and Bioinformatics-III*” organized by Zoology Section, School of Sciences, Maulana Azad National Urdu University, Hyderabad, 20th & 21st Feb. 2024.

Session Chaired/Panel Discussion in Conferences:

1. National Urdu Science Congress organized by School of Sciences and Centre for Promotion of Knowledge in Urdu at MANUU, Hyderabad. Sixth Session on Biology, 28th Feb. 2018.
2. National Urdu Science Congress organized by School of Sciences and Centre for Promotion of Knowledge in Urdu at MANUU, Hyderabad. Sixth Session on Biology, 1st March 2019.
3. One-day Webinar on the eve of “*International Day of Immunology 2021*” sponsored by the Indian Immunology Society, AIIMS, New Delhi, organized by the School of Sciences (Zoology), Maulana Azad National Urdu University, Hyderabad. 29th April 2021.

Conferences/Workshops/Webinars Attended:

1. National workshop on “*Soft-computing, Machine Learning and Bioinformatics Application*”. Department of computer sciences, Jamia Millia Islamia, New Delhi. 17th to 19th Nov. 2004.
2. 24th Annual Convention of the Indian Association for Cancer Research (IACR) and an International Symposium on “*Human Papillomavirus and Cervical Cancer*” organized by Institute of Cytology and Preventive Oncology (ICPO, ICMR), Noida, India. 9th -12th Feb. 2005.
3. One week training program on “*Animal welfare*”. National Institute of Animal Welfare, NIAW Campus, Ballabgarg, Haryana, India. 7th to 11th Aug. 2006.
4. National Seminar on “*Malaria-An-Update*” organized by Department of Microbiology, Jawaharlal Nehru Medical College, Aligarh Muslim University, Aligarh. 18th Dec. 2010.
5. International symposium & Workshop on “*The Control of Helminth Parasites with Emphasis on Liver Fluke*” & “*Liver Fluke: an RNAi Workshop*”. Department of Zoology, Aligarh Muslim University, Aligarh. 11th & 12th Feb. 2013.
6. Pre-conference workshop cum practical training program on “*Proficiency in Advanced Instrumental Methods of Analysis*”. DRS-I (UGC), Department of Ilmul Advia, F/o. Unani Medicine, Aligarh Muslim University. 26th Nov. 2014.
7. Second National Seminar on “*Relevance of Modern Methods of Studies in Unani Medicine*”. DRS-I (UGC), Department of Ilmul Advia, F/o. Unani Medicine, Aligarh Muslim University. 27th & 28th Nov. 2014.
8. One-day Workshop on “*Know your blood Group*” and Seminar lecture on “*Importance of Blood grouping in Blood donation*” organized by Department of Zoology, School of Sciences, Maulana Azad National Urdu University, Hyderabad. 22nd Sept. 2016.
9. National Seminar on Translational Applications, “*Bio-Interaction-2018*” Organized by the Department of Biotechnology, Hyderabad Science Society, Hyderabad. 2nd & 3rd Feb. 2018.
10. Two days hands-on Workshop on “*Tools and Techniques of Molecular Biology and Bioinformatics*”, Department of Zoology, School of Sciences, Maulana Azad National Urdu University, Hyderabad. 6th & 7th Feb. 2018.
11. National Seminar on “*Intellectual Property Rights*” at Central Research Institute of Unani Medicine, organized by Central Council for Research in Unani Medicine, Ministry of AYUSH, Govt. of India, New Delhi. 30th Aug. 2018.
12. One-day Workshop on “*Practical as a Tool for Teaching Sciences*” organized by Centre for Professional Development of Urdu Medium Teachers, Maulana Azad National Urdu University, Hyderabad. 24th Jan. 2020.
13. UGC STRIDE Programme: “*Webinar presentation on Principles in Cell Signaling?*” Speaker; Dr. Murthy S. Karnam, Professor Department of Physiology and Biophysics, Virginia

- Commonwealth University, Richmond. VA 23298, USA. Organized by Mizoram University. Aizawl, Mizoram, India on 4, 11, 18, and 27th May 2020.
14. National Webinar on "*Applications of NGS in Mycobacterial diseases*" organized by Bionivid Technologies Pvt. Ltd. Bengaluru, Karnataka. 6th June 2020.
 15. Alumni Association of JNU (AAJ) "*Webinar Series @JNU on Global Research Perspective to Pandemic COVID-19*", organized by JNU, New Delhi. 13th June 2020.
 16. National Webinar "*COVID-19: From Infection to Viral Pathogenesis*" organized by Department of Botany, S.S. Khanna Girl's PG College, Paryagraj, UP, India. 14th June 2020.
 17. International Webinar on "*COVID-19 pandemic*" organized by Institute of Bioinformatics (IOB), Whitefield, Bangalore, India. 23rd to 25th June 2020.
 18. Webinar on "*Impact of Covid-19 Outbreak on Education, Health and Society*" organized by Department of Chemistry, School of Basic Sciences, Manipal University Jaipur. 21st July 2020.
 19. National Webinar on "*World Hepatitis Day*" organized by All India Unani Tibbi Congress (AIUTC) Women's Wing, New Delhi. 28th July 2020.
 20. Webinar Series on "*Nucleic Acid Handling*" organized by Merck High-End Skill Development Centre, a CSIR-IMTech Initiative (Ministry of Science & Technology, Govt. of India). June-July, 2020.
 21. Five-Day Online Workshop on "*Research Methodology*" organized by UGC-STRIDE Task Group 2020, Maulana Azad National Urdu University, Hyderabad. 17th to 21st August 2020.
 22. International Conference on "*Data Science in Biology (ICDSB) 2020 on Fundamentals of Biology, Foundations for Data Science, Imaging Informatics, Deep Learning Applications, and Medical Informatics*" organized by Institute of Bioinformatics (IOB) Bangalore, India. 3rd to 8th Sept. 2020.
 23. UGC STRIDE workshop on "*Molecular Phylogeny & Molecular Docking*" organized by Mizoram University Aizawl, Mizoram Sponsored by UGC STRIDE COMPONENT I University Grants Commission Government of India New Delhi. 19th to 27th January 2021.
 24. One-day Virtual Symposium on "*Biophysics (Biophysika-5)*" organized by Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi. 23rd Feb. 2021.
 25. Webinar on "*National Science Day 2021*" organized by School of Sciences (Zoology), MANUU-Hyderabad, 28th Feb. 2021.
 26. One-day Webinar on the eve of "*International Day of Immunology 2021*" sponsored by the Indian Immunology Society, AIIMS, New Delhi, organized by the School of Sciences (Zoology), Maulana Azad National Urdu University, Hyderabad. 29th April 2021.
 27. One Day International Webinar on "*Advances in Cancer Treatment: Focus on Immunotherapy*" organized by the Department of Biochemistry, Krishna University, AP. 8th Sept. 2021.

28. One Day *National Webinar on "MANAV online module on "How to Read Scientific Literature?"* organized by University of Kashmir, Jammu & Kashmir. 24th September 2021.
29. One Day Workshop on *"Academic Integrity"* organized by the STRAQ Unit, Directorate of Distance Education, Maulana Azad National Urdu University, Hyderabad, on 5th Dec. 2022.
30. Seminar on *"International Day of Immunology 2023"* sponsored by Indian Immunology Society, AIIMS, New Delhi, organized by School of Sciences (Zoology), Maulana Azad National Urdu University, Hyderabad. 27th April 2023.
31. Seminar on *"World Sickle Cell Anemia Day-2023"* organized by School of Sciences (Zoology), Maulana Azad National Urdu University, Hyderabad. 19th June 2023.
32. Two days hands-on Workshop on *"Tools and Techniques of Molecular Biology and Bioinformatics-III"* organized by Zoology Section, School of Sciences, Maulana Azad National Urdu University, Hyderabad, 20th & 21st Feb. 2024.
33. Two days Workshop on *"Authors Workshop on Academic Writing to Develop Textbooks for Higher Education in Urdu Language"* organized by Maulana Azad National Urdu University, Hyderabad, in collaboration with Bharatiya Bhasha Samvardhan Samiti, University Grants Commission, Ministry of Education, GOI 15th & 16th Oct. 2024.

Vision:

The vision of MANUU is articulated as *"To provide and promote quality higher education and research through Urdu, aiming to be recognized as the premier institution for academic excellence."* As a faculty member of MANUU, my personal vision is to support the university in realizing its overarching goals through our departmental mission.

Mission for the Department and University:

The immediate mission for the department is to advocate for and execute the vision, mission, and goals of the department. Prioritize the needs of students, encourage ongoing enhancement in educational practices, and cultivate a culture of research. Evaluate and refine policies pertaining to both academic and administrative functions, while acknowledging the value of all teaching and non-teaching staff. Enhance instructional methodologies through the integration of AI technology. To achieve the specific objectives the mission is categorised at different levels.

At the level of teaching:

The educational system must undergo evolution and adaptation to facilitate the emergence of an innovative learning environment. Consequently, it is essential to evaluate every aspect of the education system and integrate technological advancements at all levels. The swift advancement of technology

necessitates innovation within the educational sector. As the education system transforms to meet future challenges, the integration of artificial intelligence, project-based learning, virtual laboratories, and collaborative learning will facilitate its growth and adaptation.

- * In the upcoming five years, it is vital to focus on interdisciplinary and multidisciplinary strategies in education, as outlined in the National Education Policy 2020.
- * It is necessary to routinely evaluate and adjust educational programs to respond to evolving challenges and to take advantage of new opportunities.
- * Advancing teaching methods through the use of Information and Communication Technology (ICT) to promote effective teaching and learning experiences.
- * Facilitating the earning of academic credits for students through online educational platforms, including SWAYAM and MOOCs.
- * Involving students in Field Projects/Internships to understand the concepts by doing it practically on their own.
- * Coaching and guidance for the preparation of the UGC/CSIR-NET.
- * Establishment of a Departmental Seminar library.

At the level of Research:

- * Establishing partnerships with industry and government sectors to secure funding for research, thereby ensuring that the research laboratory becomes self-sustaining and is equipped with cutting-edge research facilities to achieve the objectives of my research domain.
- * Organizing thematic research seminars, workshops and conferences for the exchange of ideas and knowledge of current research trends in specific fields of research.
- * To promote modern areas of Life Sciences to the highest level of excellence, and to promote multidisciplinary research in the area of Life Sciences with a holistic concern for quality in life, environment, society and ethics..

Towards Institution Building:

- * Efforts to receive Funds/Grants from alumni, non-government bodies, individuals, and philanthropies
- * Providing Corporate Training to the corporate sector for the purpose of collaboration and fund generation.
- * Encouraging faculties to join Consultancy
- * E-content development by Teachers for SWAYAM, and other MOOCs platforms
