

CURRICULUM VITAE

MOHAMMAD ASIF

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Department of Zoology, D.D.E.

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OBJECTIVE

To work in a challenging environment where not only my knowledge and abilities can be best utilized but also which offers strong foundation for learning and exposes me to new challenges.

ACADEMIC QUALIFICATIONS

Degree	University/Board	Year	Specialisation or Subjects	Percentage/CGPA	Any other relevant information
Ph. D. (Zoology)	Aligarh Muslim University, India	2012-2019	Zoology	-	Awarded
M. Sc.	Aligarh Muslim University, India	2007	Zoology (Agri. Nematology)	83	1 st Division, over all 80%
Graduation	Aligarh Muslim University, India	2005	Major: Zoology Subsidiary: Botany, Chemistry, English & Urdu.	82	1 st Division, over all 74%
Intermediate	A.I.S.S.E., New Delhi	2002	Biology, Chemistry, Physics, English & Hind	73.4	1 st Div
High School	A.I.S.S.E., New Delhi	2000	English, Hind, Science, Maths & Social science	68	1 st Div

***Title of Ph.D. Thesis: “Some studies on free-living nematode fauna of coalfield region of District Sonebhadra, Uttar Pradesh, India”** research work carried out at Department of Section of Nematology, Department of Zoology, Aligarh Muslim University, Aligarh, 202002, India.

PROJECT WORK/ RESEARCH/ TEACHING EXPERIENCE

- Working as Assistant Professor of Zoology (Contractual), Maulana Azad National Urdu University, Hyderabad (MANUU, Hyderabad), Gachibowli, Hyderabad 500032, Since October 2020.
- Worked as a Senior Lecturer at Shri Shri Ravi Shankar College, Osmanabad, Maharashtra, from Dec 2018 to Aug 2020.
- **Worked as lecturer and Laboratory Head at Biotechnology Research Foundation**, Dheerpura Society for Science and Rural development, Kalyanpur Branch, Kalyanpur Kanpur, 29-12-2009 to 10-06-2011.
- **Worked as NEET biology lecturer at Aligarh Study & Guidance Centre**, Ramghat Road, Aligarh, Uttar Pradesh, during 20-12-2012 to 28-02-2016.
- **Worked as NEET Biology Lecturer Duty Society Coaching**, Science Faculty building, near AMU Computer Centre, AMU, Aligarh during 02-04-2016 to 20-06-2017
- **Worked as manuscript editor** as well as marketing and sales executive in scientific journals *Trends in Bioscience* and *Advances in Life Sciences* DSARD, Bhopal. From 2010 to 2017.
- October 2014-October 2018: **Senior Research Fellow**, (UGC, New Delhi)
October 2012-September 2014: **Junior Research Fellow** (University grants Commission, New Delhi).
- **December 2011-October 2012: Worked as Research coordinator** in Biotechnology Research Foundation, DSARD Bhopal.
- **June 2011-December 2011: Research Fellow (Department of Science and Technology, Ministry of India, New Delhi)** in major Research Project title "Nematodes from wetland Shikha Jheel Uttar Pradesh, India".
- **December 2007-March 2011: Worked as Senior Research Fellow (Department of Biotechnology, Ministry of India, New Delhi).**
- **September 2007-November 2007: Worked as Senior Research fellow** in DBT major research project title "Use of EPN as a tool of Biological control for lepidopteran borer complex infesting pigeonpea "at IIPR, Kanpur.
- Project oriented dissertation on: "**Studies on predatory nematode fauna of coal field region of District, Sonbhadra Uttar Pradesh**" in the Department of Zoology under the supervision of Prof. Wasim Ahmad.
- **Summer training oriented project entitled** "Hemipenial Morphology and its phylogenetic Signals in some Agamids lizards of south and central India" in the Centre of Ecological Sciences, **Indian Institute of Sciences, Bangalore**, Under the supervision of Prof. Sushil. K. Dutta from August to September 2013.

PERSONAL SKILLS/EXPERIENCE

- Nematode isolation from soil and water samples and their identification upto species level *via* morphometric characteristics and DNA barcode.
- Phylogenetic analyses using morphological and molecular data.

- Scientific illustrations of nematodes.
- Experience on multifocal imaging on different light microscopes.
- Preparation of nematode samples for electron microscopy (SEM & TEM)
- UV-VIS spectroscopy, FTIR, HR-TEM, SEM, EDX and DLS
- Isolation of genomic DNA.
- PCR, Real Time PCR, RFLP.
- RAPD, Dot Blot Hybridization and ELISA
- DNA Sequencing (Sanger)
- SDS-PAGE.
- Different types of staining.
- Sterilization techniques.
- Soil microbiology techniques.

OTHER TECHNIQUES KNOWN

- Molecular biology methods
- Cell Culture

SOFTWARE SKILLS

- MS-Office, SPSS, BLAST, Mr. BAYES, MEGA, R software, Mesquite, PAUP, DIVA-S, BEAST, CHROMAS LITE and Internet.

ACHIEVEMENTS

- Awarded first prize in poster presentation in the National Conference on Impact of Environmental Xenobiotics on Human Health and Biodiversity held at Department of Zoology, Lucknow University, Lucknow, Uttar Pradesh, India from 30-31st March 2018.
- Awarded Summer Research Fellowship Jointly by Indian Academy of Sciences, Bangalore, Indian National Science Academy, New Delhi and The National Academy of Sciences, India Allahabad in 2013.
- Best oral presentation at National Conference on Insect Diversity and Systematics: Special Emphasis on Molecular Approaches held at Department of Zoology, Aligarh Muslim University, Aligarh. 27-30th October 2013.
- Awarded Maulana Azad National Fellowship (MANF) fellowship (October 2012-2018) by University Grants Commission, Government of India, New Delhi, India.
- Awarded first prize in poster presentation in the National Symposium on “Biodiversity, and Food Security-Challenges and Devising Strategies” organized by DSARD and IIPR, Kanpur, Held at IIPR, Kanpur from 10to 11th December 2011
- U.P. Minority commission Scholarship, Lucknow, 2005.

PUBLICATIONS

Research articles:

1. Rehmat, J., Asif, M and Mahboob, M., (2022). Biological indicative assessment of nematodes in evaluating different terrestrial habitats. *Journal of Asia Pacific Entomology*. JAPE_2020_627. Accepted. Impact Factor **1.05**
2. Mahboob M, Bashir I, Asif M, Nazir N, Jahan R, Tahseen Q (2022). Molecular and phenotypic characterization of two cryptic species of the predatory genus *Mononchoides* Rahm, 1928 (Rhabditida: Diplogastridae) and their congeneric affinities. *Journal of Helminthology* 96, e41, 1–22. <https://doi.org/10.1017/S0022149X22000323>. **Impact Factor 2.20**
3. Tahseen, Q., Ahlawat, S., Asif, M. and Mustaqim, M. (2016). Description of a new species of *Acrostichus* Rahm 1928 (*Nematoda: Diplogastridae*) from India with a note on its position and relationship with the congeners. *Biodiversity Data Journal* 4: e8029. Doi 10.3897/BDJ4.e8029. Impact factor **1.33**
4. Deepak, V., Giri, V. B., Asif, M., Dutta, S. K., Vyas, R., Zambre, A. M., Bhosale, H. and Karanth, K. P. (2016). Systematics and phylogeny of *Sitana* (Reptilia: Agamidae) of Peninsular India, with description of one new genus and five new species. *Contributions to Zoology*, 85, 67–111. Impact factor **2.13**
5. Fohad Mabood Husain, Iqbal Ahmad, Mohammad Asif and Qudsia Tahseen. (2013). Influence of clove oil on certain quorum sensing regulated functions and biofilm of *Pseudomonas aeruginosa* and *Aeromonas hydrophila*. *Journal of Biosciences* 38: 1-10. Impact factor **2.06**
6. Asif, M., Prasad, J. S., Khan, R., Somasekhar, N. and Tahseen, Q. (2013). A revision of the genus *Metarhabditis* (Nematoda: Rhabditidae) with description of three known species, a key to the identification of congeners and discussion of their relationships. *Journal of Natural History*, 47(U.K.). DOI: 10.1080/00222933.2013. Impact factor **1.06**
7. Tahseen, Q., Asif, M., Mustaqim, M., Ahlawat, S. and Bert, W. (2013). Descriptions of ten known species of the superfamily Mononchoidea (Mononchida: Nematoda) from north India with a detailed account on their variations. *Zootaxa*, 3646: 301-335. Impact factor **1.06**.
8. Ali, S. S., Shaheen, A., Asif, M., Akhtar, M.H., Pervez, R., Ahmad, R. and Ali, S. (2013). Comparative Performance of Different Nozzles on Deposition of Entomopathogenic Nematodes on Chickpea Leaves. *Advances in Life Sciences*, 2 (1): pp. 66-68.
9. Akhtar, M.H., Asif, M., Ali, S. S. and Pervez, R. (2012). Performance of different Sprayer nozzles on deposition of infective juveniles of three entomopathogenic nematodes species on pigeon pea. *World journal of Applied Science and Research* 2 (1): pp. 28-31.
10. Ali, S. S., Asif, M. and Shaheen, A. (2011). *Oscheius nadarajani* Sp. n. (Nematoda: Rhabditida) from Lentil (*Lens culinaris*) Rhizosphere in Unnao District of Uttar Pradesh, India *Trends in Biosciences*, 4 (1): pp. 98-100.

11. Shaheen, A., Ali, S. S. and Asif, M. (2011). Two New Species of Genus *Oscheius* from Pulses Ecosystem in Uttar Pradesh, India. ***Trends in Biosciences***, 4 (1): pp. 82-85.
12. Ali, S. S., Asif, M., Sirvastava, S. P. and Shankar, P. (2011). First Report on Susceptibility of *Khapra* Beetle (*Trogoderma granarium*) against *Steinernema masoodi* (Ali, *et al.*, 2005) and its *In Vivo* Production. ***Trends in Biosciences***. 4 (1): pp. 140-141.
13. Ali., S. S. and Asif, M. (2011). Comparative Field Efficacy of Dust Formulation and Liquid Formulation of *Steinernema seemae* Based Biopesticide and other IPM Options against *Helicoverpa armigera* (Hübner) Infesting Chickpea. ***Trends in Biosciences***, 4 (1): pp. 35-37.
14. Ali, S. S., Asif, M., Murgan, P. D., Akhtar, M. H. and Shaheen, A. (2010). In-vivo production and Pathogenicity of *Oscheius amsactae* against four agriculturally important insect pest. ***Trends in Biosciences*** 3 (2): pp. 232-233.
15. Ali, S.S., Shaheen, R., Asif, M. and Akhtar, M. H (2009). *Steinernema qazii* sp. n (Nematoda Rhabditidae: Steinernematidae) from Kanpur India. ***Trends in Biosciences*** 2 (1): pp. 59-64.
16. Ahmad, R., Asif, M., Murgan, P. and Ali, S. S. (2009). First Report on the infectivity of *Callosobruchus chinensis* (Linnaeus) by *Oscheius amsactae* (Ali, S. S. et al.,) ***Trends in Biosciences*** 2 (1): pp. 78.
17. Ali, S.S., Asif, M., Duraimurugan, P., Akhtar, M.H., Pervez, R., Shaheen, A. and Ahmad, I. (2009). In vivo production and infectivity of *Oscheius amsactae* (Ali et al., 2007) on four agriculturally important insect pest. ***Trends in Biosciences*** 3 (2): 232-233.

Newsletter articles and Abstracts:

- a) Mahboob, M., Nazir, N., Asif, M. and Tahseen Q. (2018). Evolution of insect riders: An evolution from Epoch. In National Conference on Impact of Environmental Xenobiotics on Human Health and Biodiversity held at Department of Zoology, Lucknow University, Lucknow, Uttar Pradesh, India on 30-31st March 2018. pp. 70
Abs
- b) Jahan, R., Asif, M., Nazir, N. and Tahseen Q. (2017). Nematodes as bioindicators from Organic-enriched habitats. In International conference on advances in Agriculture and Biodiversity Conservation for Sustainable development held at C. C. S. University, Meerut, Uttar Pradesh, India from 27-28 October, 2017. pp.400
- c) Nazir, N., Asif, M., Mahboob, M., Jahan, R., Mustaqim, M. and Tahseen, Q. (2017). Fig-A microhabitat showing fascinating tri-trophic interaction. In International

conference on advances in Agriculture and Biodiversity Conservation for Sustainable development held at C. C. S. University, Meerut, Uttar Pradesh, India from 27-28 October, 2017. pp.420-421

- d) Asif, M., Mustaqim, M. and Tahseen, Q. (2013). Taxonomic studies on Indian species of entomopathogenic genus *Oscheius* and a discussion on other representative species. In National conference on insect diversity and systematics: special emphasis on molecular approaches. Department of Zoology, Aligarh Muslim University, Aligarh. pp. 77-80 Abs.
- e) Pervez, R., Ali, S. S. and Asif, M. (2011). *Sterinernema mustaqii* sp. n (Nematode: Rhabditidae: Sterinernematidae) a new species of entomopathogenic nematode from chickpea rhizosphere. In: International Conference on Legumes (ICGL), at Indian Institute of Pulses Research, Kanpur on 14-16' Feb. pp. 323.
- f) Pervez, R., Ali, S. S. and Asif, M., (2011). Infectivity of *Steinernema mushtaqi* (Rhabditida: Steinernematidae) against different instar larvae of gram pod borer, *Helicoverpa armigera* infesting chickpea. In: International Conference on Legumes (ICGL), at Indian Institute of Pulses Research, Kanpur on 14-16' Feb. Abs.
- g) Ahmad, R., Asif, M., Akhtar, M.H., Shaheen, A. and Akhtar, M. H. (2009), .Newsletter, Indian Institute of Pulses Research, Kanpur. 20 (2): 6, First report of *Endotokia matricida* Dessication Stage in EPN *Oscheius amsactae*.
- h) Pervez, R., Ali, S. S. and Asif, M., (2009). A new species of entomopathogenic nematodes *Steinernema mushtaqi* sp. n. (Nematoda : Rhabditidae : Steinernematidae) from chickpea rhizosphere. In: International Conference on Legumes (ICGL), at Indian Institute of Pulses Research, Kanpur on 14-16' Feb. Abs
- i) Ali, S.S., Ahmad, R., Asif, M, Akhtar, M. H., and Pervez, R. (2009). EPN based Biopesticide: Performance of different sprayer's nozzle on deposition of infective juveniles on pigeonpea leaves: 5th International Conference on Biopesticides: Stakeholder's Perspectives, New Delhi, pp.98 Abs
- j) Ahmad, R., Ali, S.S., Akhtar, M. H. and Asif, M., (2009) Microbial Biopesticides: Feasibility of their utilization in pulses ecosystem: 5th International Conference on Biopesticides: Stakeholder's Perspectives, New Delhi, pp. 88-89 Abs
- k) Ali, S. S., Ahmad, R., Murgan PD, Asif, M., Akhtar, M.H., and Pervez, R. (2007). Newsletter, Indian Institute of Pulses Research, Kanpur. 18 (4): 3, New Insect Host Record of EPN, *Oscheius amsactae*.

Research papers in proceedings:

- a) Ali, S.S., Akhtar, M.H., Shaheen, A., Duraimurugan, P. and Asif, M. (2009). Heat Tolerant Entomopathogenic Nematodes: An Emerging Option for *Helicoverpa armigera* Management in Pulses. National Workshop on Applied Nematology (NWAN–2009). Department of Zoology, Ch. Charan University, Meerut, pp.135-148.
- b) Akhtar, M. H., Asif, M. and Ali, S. S. (2013). Post-foliar spray survival of two entomopathogenic nematodes *Sterinenema seemae* and *Oscheius nadarajni* on chickpea leaves. In proceeding of national conference on insect diversity and systematics: special emphasis on molecular approaches. Department of Zoology, Aligarh Muslim University, Aligarh. pp. 77-80.
- c) Asif, M. and Tahseen Q. (2013). Diversity, abundance and role of nematodes in wetland ecosystem Shekha Jheel, Uttar Pradesh, India. In proceeding of International conference on Faunal Biodiversity and their Conservational Starttegies organised by Department of Zoology, Lucknow University, Lucknow.

BOOKS AND BOOKS CHAPTER

1. M. Arif, M. Asif *et al.*, 2021. Non-chordates (Urdu-غیر فقری جاندار), Published by DDE, Maulana Azad National Urdu University, Hyderabad. 376pp. ISBN: 978-93-80322-75-9
2. M. Arif, M. Asif, et al., 2022. Chordates (Urdu-حیاتیات), Published by DDE, Maulana Azad National Urdu University, Hyderabad. 388pp. ISBN: 978-93-93722-33-1
3. Nadia Sufyan, Mohammad Asif 2022. Alteration of freshwater ecosystems and its assessment: In the light of nematode community structure. In Ecological Significance of River Ecosystems. Elsevier Inc. DOI <https://doi.org/10.1016/B978-0-323-85045-2.00006-6>

PATENTS

- *In-vitro* mass production of entomopathogenic nematode *Heterorhabditis indica* Aligarh strain (AL-1) on semi-liquid artificial diet on solid media. **Indian Patent (2015) Application No.609/DEL/2015 A. publication date 03-04-2015.**

PAPERS PRESENTED/ CONTRIBUTED IN CONFERENCES/ SEMINARS

International Conference/Symposium

- Attended and participated in poster presentation, academic and interacting session in “6th Science Conclave 2013” A congregation of Nobel Laureate and Eminent Scientist organized by MHRD-DST and IIIT-A Held at IIT, Allahabad from 8th to 14 December 2013.

- Attended and participated in International Symposium and workshop on the “Control of helminths parasites with emphasis on liverfluke” and “Liverfluke: an RNA i workshop” Held on February 11-12, 2013 in the Department of Zoology, AMU, Aligarh.
- International Conference on Grain Legumes: Quality Improvement, Value Addition and Trade at Indian Institute of Pulses Research, Kalyanpur, Kanpur, U.P From 14-16, 2009.

National Conference/Symposium

- National symposium on Legumes for Ecological Sustainability: Emerging Challenges and Opportunities, at Indian Institute of Pulses Research, Kalyanpur, Kanpur, U.P during November 3-5, 2007.
- National Symposium on Biodiversity & Food Security- Challenges & Devising Strategies at Indian Institute of Pulses Research , Kalyanpur, Kanpur U.P. from 10-11 Dec 2011.
- National Conference on Insect Diversity and Systematics: Special Emphasis on Molecular Approaches (NCIDS 2013). Department of Zoology, Aligarh Muslim University, Aligarh.
- National Symposium on “Modern Trends in Life Science Research with Special Emphasis on Comparative Endocrinology. Department of Zoology, Aligarh Muslim University, Aligarh on 10th November 2016.
- Eco Summit 2016. University Eco Club, Cultural Education Centre, Aligarh Muslim University, Aligarh in association with Engineering and Environmental Solutions & M.E.D.J.C.S on 23rd February 2016.
- National Conference on Impact of Environmental Xenobiotics on Human Health and Biodiversity held at Department of Zoology, Lucknow University, Lucknow, Uttar Pradesh, India from 30-31st March 2018.
- Presented a paper in National Urdu Science Congress 2021, School of Sciences, Maulana Azad National Urdu University Hyderabad held on 14 and 15th July 2021.

TRAINING AND WORKSHOP ATTENDED

- Attended **International Workshop on “New and emerging trends in Nematological Research in the 21st century with particular emphasis on plant protection”**. Sponsored by INSA & AMU. Held in the Department of Zoology, Aligarh Muslim University, Aligarh from 26 Feb to 3 March, 2007
- Underwent five days workshop on **“Molecular Phylogenetics” from 1st August to 5th August 2013 organized by Centre for Ecological Sciences, Indian Institute of Sciences, Bangalore**
- Underwent two months summer training from August 2013 to September 2013 on **molecular and morphological taxonomy, phylogeny, barcoding and molecular ecology at Centre for Ecological Sciences, Indian Institute of Sciences, Bangalore**

- Half Day awareness workshop on “**Intellectual Property and Innovation Management in Knowledge Era**” organized by CGPDTM, NRDC and AMU, held on December 7th 2015 at AMU, Aligarh
- Actively participated in Two days Orientation Programme for teaching Faculty of Directorate of Distance Education, on 24th to 25th January organized by STARQ unit, Directorate of Distance Education, Maulana Azad National Urdu University, Hyderabad

PERSONAL PROFILE

Father’s Name : Atik Ahmad
Date of Birth : 29th December 1984
Gender : Male
Nationality : Indian
Marital Status : Married
Religion : Islam
Passport Number : M5551697

PERMANENT ADDRESS

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REFERENCES

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DECLARATION

I hereby certify that all the particulars given above are true, complete and correct to the best of my knowledge and belief. I shall owe whole responsibility in event of any information being found false or incorrect.

Date:

Place:

MOHAMMD ASIF