



## QUDSIA TAHSEEN Ph.D., F.N.A., F.N.A.Sc., F.A.Sc.

**1. Current Position** Professor of Zoology

**2. Complete Address** Department of Zoology,  
(Office) Aligarh Muslim University,  
Aligarh-202002

**3. Contact Details:**

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**4. Some distinctions in the early phase of academic career**

**Gold medals** page no.2, 3

\* Gold Medal for standing first in the order of merit in **MSc (1984)**

\*\*University gold medal for standing first in the order of merit in **Diploma in Statistics (1986)**

**Merit Scholarship**

1. U.P. Board Merit Scholarship after High School (1978-80)

ii. AMU Merit scholarship after BSc (1980-82)

**Fellowships at doctoral and early post-doctoral level** page no.4-5

Junior Research Fellowship (CSIR) through NET (National Entrance Test) (1985-87)

Senior Research Fellowship (CSIR) through NET (1987-89)

Research Associateship (CSIR) (1991-92)

**5. Educational Qualifications**

PhD (Zoology)	AMU	1988	Awarded	
M.Phil (Zoology)	AMU	1986	I Division, 78%	I Position
M.Sc (Zoology)	AMU	1984	I Division, 73%	I Position, Gold Medal
B.Sc. Hons. (Zoology)	AMU	1982	I Division, 68%	II Position
P.U.C	AMU	1979	I Division, 70%	
High School	UP Board	1978	I Division, 70%	

**6. Research Specialization**

**Zoology, Nematology, Taxonomy, biodiversity, developmental biology, ecology of soil and fresh water nematodes.**

## **7. Positions Held**

Professor in Zoology, Aligarh Muslim University	since 2009
Reader in Zoology, Aligarh Muslim University	2003-2009
Lecturer in Zoology, Aligarh Muslim University	1989-2003
Rothamsted International Fellow (on deputation)	2003-2004

## **8. Research Concerns and some contributions in the field**

The work area includes **taxonomy and biology of the free-living soil and aquatic nematodes**. Thrust has been given to the **taxonomy of less explored and ignored groups** that has helped building a coherent and sound classification. Apparently the inventory of nematode taxa is not associated with technological advancement but forms the backbone of any landmark research taking the organism as a model with a specific status in the food web. Any type of study in the biological sciences or medicine is unreliable and meaningless if the model organism is not correctly identified. (The well known model organism *Caenorhabditiselegans* would not have come into picture had Maupas not discovered it in 1905). **Taxonomy by following only the traditional ways of species description, will never be able to deliver the greatest benefits**, the viewpoint of Dr. Tahseen is well reflected in her work with soil nematodes as central theme. The holistic approach of viewing a problem has led to perform a multifaceted study on soil nematodes with special reference to their structure, biology and status in the environment. A critical analysis of the structures were made thus **solving morphological intricacies and misinterpretations** of some earlier findings; the **pioneering studies on developmental biology of soil nematodes** were conducted in India. Such findings have been regarded valuable in view of the paucity of information on other nematodes except the well-studied *Caenorhabditiselegans*. She has shown her concern about the falling standards **of taxonomy in a scholarly article discussing the various road blocks and the possible solutions thus providing a road map to taxonomy in the modern era**. Her taxonomic expertise led to filling up of lacunae in the existing classification by addition of information of unexplored and ignored Indian nematode taxa. The addition of a good number of species new to science has been a remarkable contribution which enriched the faunal lists of the country with nematode species that largely were overlooked or neglected in most faunal surveys. The innovations in the field of taxonomy have been accredited and recognized in the international community of scientists in the form of ONTA (Organization of Nematologists of Tropical America) Special Award **for world-wide expertise in nematode taxonomy and sustained excellence in Nematology**.

## **9. International accreditation**

## a. Awards/honours

- ✚ Rothamsted International Fellow (2003)
  
- ✚ **ONTA** (Organization of Nematologists of Tropical America) Special Award (2005) for world-wide expertise in taxonomy and **sustained excellence in Nematology** (First Asian to be honoured)
  
- ✚ INSA visiting Scientist (2001)
  
- ✚ DBT Overseas Fellow (2006)
  
- ✚ **Visiting Scholar**, TWAS-CAS (2007-08)
  
- ✚ **Erasmus Mundus Scholar** (2010-11)
  
- ✚ Work has been regarded as '**exemplary contribution**' by an eminent German Nematologist (Sudhaus, 2011) in the latest taxonomic revision on Rhabditidae.
  
- ✚ **Selected under INSA-DFG Bilateral Exchange Programme** to visit Germany (2018)
  
- ✚ Funded by **Max Planck Institute of developmental biology, Tubingen**, Germany to carry out collaborative research for three months (May-Aug, 2018).

## 10. National Honours

### a. Fellowship/ Award of National Academy

- **Fellow of Indian National Science Academy (INSA), New Delhi.**
- **Fellow of Indian Academy of Sciences, Bangalore**
- **Fellow of the National Academy of Sciences, India**
- **INSA (Indian National Science Academy) Young Scientist Medal (1995)**

### b. Other Prestigious National Awards

- 1) S.C. Goyal Young Scientist Award of Indian Society of Developmental Biologists (**ISDB**) (1992)
- 2) Swami Pranavanand Young Scientist Award of **ISDB** (1992)
- 3) Young Scientist Award of Indian Science Congress Association (**ISCA**) (1994)
- 4) Best Poster Award of Indian Society for Parasitology (2000).

### **c. Other honours**

- i. Biography included in “**Lilawati’s daughters- top hundred women scientists of India**”  
Published by Indian Academy of Sciences.
- ii. Biography included in “**The girl’s guide to a life in Science**” By Young Zubaan Publishers (One of the twenty three selected biographies of renowned Indian women scientists to encourage and incite young girls to opt for a science career); Editors: Ram Ramaswamy, RohiniGodbole and MandakiniDubey (2011)
- iii. “Noted Women Scientists of India – an attempt at enumeration” in Scilog (Germany) in association with nature.com
- iv. Life: e-newsletter, Biological Sciences

### **11a. Scientific Leadership at International Level**

- a. Imparted **teaching and guidance to the post-graduate students** of the **EUMAINE** programme sponsored by **European Union Consortium** in Belgium(2010-11).
- b. Designated as an **expert** in the **NSF-sponsored project** (Principal investigators Prof. Baldwin from UCR and Prof. Nadler from UC Davis) since 2013. **page no.36-37**
- c. Imparted **teaching and guidance to the post-graduate students** of the **Erasmus Mundus** programmes sponsored by **European Union Consortium** in Germany(2010-11).
- d. Extended **nematode identification help** to scientists at **University of Bielefeld, Germany** and **Ecosystem Sciences, CSIRO, Black mountain Laboratories, Canberra, Australia**
- e. **Mingxia Sun, Gregory S. Watson, YongmeiZheng, Jolanta A. Watson &Aiping Liang (2009)**.Wetting properties on nanostructured surfaces of cicada wings. Journal of Experimental Biology (**IF=3.3**), <http://jeb.biologists.org/cgi/content/full/212/19/3148/DC1>

### **11b. Scientific Leadership and Policy making (National Level)**

- i. Expert panel of INSA (1996)
- i. **PAC member of Animal Sciences, SERB**, Department of Science and Technology, New Delhi (2017- till date).
- ii. **UGC Expert , University with Potential for Excellence (UPE) committee**, Madurai Kamraj University (Feb, 2018).

- iii. **Subject Expert** in the committee to conduct the academic review of the e-contents of the MOOC Courses.
- iv. **Subject Expert** in the committee to conduct the Learning Outcomes based Curriculum Framework (LOCF), UGC.
- v. **UGC Expert**, to review the functioning of institutions deemed to be Universities- Nothe Eastern Regional Institute of Science and Technology, Nirjuli, Itanagar.
- vi. **UGC expert in Committee for Maulana Azad National Fellowship (MANF)** (Jan, 2016).
- vii. **Life Sciences Committee, Fast Track Programme**, SERB, Department of Science and Technology, New Delhi (2012- 2015).
- viii. **Member of the Expert Committee (Zoology)** for evaluation of Minor Research Projects, University Grants Commission, New Delhi (2015).
- ix. **Subject Expert**, Selection Committee, **Trans-Disciplinary Research**, CSIR, New Delhi (2012).
- x. **Subject Expert**, Selection Committee, Post-doctoral Research Fellowship for Women, University Grants Commission, New Delhi (2014).
- xi. **Member of the Expert Committee (Zoology)** for midterm evaluation of projects, University Grants Commission, New Delhi (2014).
- xii. **Member of the Expert Committee (Zoology)** for evaluation of Major Research Projects, University Grants Commission, New Delhi (2014).
- xiii. **UGC Expert, Special Assistance Programme (SAP) committee** University of Kolkata, Kolkata (23 Aug, 14).
- xiv. **UGC Expert, University with Potential for Excellence (UPE) committee** University Grants Commission, New Delhi (Sep, 2014).
- xv. **Subject Expert**, Selection Committee of **Post-doctoral Raman Fellowship**, University Grants Commission, New Delhi (2013 ).
- xvi. **Subject Expert**, Selection Committee, Post-doctoral Research Fellowship, University Grants Commission, New Delhi (2013).
- xvii. **Planning Committee of Helminthology**, Department of Science and Technology, New Delhi (2012).
- xviii. **Member of National Advisory Board for Agriculture, The Indus Foundation, USA.**
- xix. **Co-opted member of Board of Studies** of Department of Zoology, Maulana Azad National Urdu University, Hyderabad.

### Scientific Advice

#### i. Identification help provided to scientists

1. Directorate Rice Research, Hyderabad
2. KUSAT, Kerala

#### Some administrative role at home institute.

Although I avoided taking the administrative roles due to my research commitments some of the assignments could not be ignored.

- **A member of the Steering committee** for the selection of Indian participants/ researcher for Obama-Singh Pilot project awarded to Ohio State University and Aligarh Muslim University under OBAMA-SINGH 21st Century Knowledge Initiative
  - Organized and contributed to several workshops and training programmes in the Department of Zoology, Aligarh Muslim University (1991-2008)
  - **Co-convener of the Indian Social Science Congress** held at Aligarh Muslim University from 27th December to 31<sup>st</sup> December, 2013
  - **A member of Innovation committee** to improve the quality of research in the University, to facilitate interdisciplinary research and to address research-related problems (2013-2017).
  - **Felicitated by the Vice-Chancellor** for the excellent work in the field of Nematology, Zoology
  - A member of the administrative committee of Aligarh Muslim University, against sexual harassment of women.
  - A member of the administrative committee of Aligarh Muslim University, for the smooth conductance of AMU Students Union Elections held in 2018.
  - Honoured as an **outstanding woman professional** at a meeting organized at Department of Physics, Aligarh Muslim University on Woman's day.
  - Other important administrative roles as **Course Coordinator, B.Sc (2013-14)** as well as **Coordinator of M.Sc Entrance Examinations** (2012-13, 2013-14).
  - **Section Incharge** of Nematology, Department of Zoology, Aligarh Muslim University Aligarh since seven years.
  - Co-opted member of Board of Studies of Department of Museology, A.M.U. Aligarh.
  - Member of Internal Advisory Committee on GIAN and Alig's Academic Enrichment Programme (2018)
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## **12. Some of the reputed labs visited for collaborative research**

### **ENGLAND, United Kingdom(2001, 2003)**

*Rothamsted Research, Harpenden,*

*Nematology Unit, CAB International, Egham*

*Nematology Dept., University of Reading, Reading*

*Marine Nematode Lab, National Natural History Museum, London*

### **SCOTLAND, United Kingdom (2001)**

*Nematology Department, Scottish Crop Research Institute, Dundee*

### **BELGIUM (2003, 2011)**

*University of Ghent,*

*Agriculture Institute, Ghent*

### **THE NETHERLANDS (2011)**

### **UNITED STATES (2006-07)**

*Department of Nematology, University of California, Riverside*

### **CHINA (2007-08, 2010)**

*Institute of Zoology, Chinese Academy of Sciences, Beijing*

### **GERMANY (2011)**

*University of Bielefeld, Bielefeld*

### **AUSTRALIA (2013)**

*CSIRO Black Mountain Laboratories, Canberra, Australia*

## **13. Post-doctoral fellowships facilitating international collaboration**

- a) **Visiting fellowship** (July to Sept., 2001) to carry out collaborative research at Rothamsted Research, Harpenden, England, UK.

- b) **Visiting fellowship** (Sept. to Oct., 2001) to carry out collaborative research at and Scottish Crop Research Institute, Dundee, Scotland, UK under Bilateral Exchange Programme of Royal Society and INSA.
- c) **Rothamsted International Post-doctoral Fellowship** (2002-03) to work under a collaborative project at Rothamsted Research, Harpenden, UK for a period of 9 months w.e.f. 10.10.2002 to 9.07.2003).
- d) **DBT Overseas Fellowship**, 2006 to carry out collaborative research at University of California, Riverside.
- e) **Visiting Scholar Fellowship**, 2007-08 awarded by TWAS, Italy and CAS, China to carry out collaborative research at Institute of Zoology, CAS, Beijing, China.
- f) **International Travel Assistance** awarded by DST to deliver an invited talk at TWOWS meeting, Beijing, China (2009-10)
- g) **EUMAINE Scholarship** 2010-2011 to participate in the EUMAINE and PINC Nematology Teaching programmes in Ghent and Bielefeld.
- h) **INSA Indo-Australian Senior Scientist Fellowship** to visit Canberra, Australia in April, 2013 as a taxonomic expert.
- i) **Max Planck Grant** to visit Max Planck Institute of Evolutionary Biology, Tübingen from 16<sup>th</sup> May to 10<sup>th</sup> August, 2018.

#### **14. Expert lectures delivered at reputed Institutes Abroad**

- **'Role of *Pochonia chlamydosporia* on plant parasitic and free-living nematodes'** at Rothamsted Research, Harpenden, England on 4<sup>th</sup> July, 2003.
- **'Nematological research with context to India'** at Department of Nematology, University of California, Riverside (6<sup>th</sup> Dec, 2006).
- **'A window to the world of nematodes'** at Institute of Zoology, Chinese Academy of Sciences, Beijing (19<sup>th</sup> Dec, 2008).
- **'Nematodes: indicators to environmental quality'** TWOWS General Assembly and Fourth International Conference held at Beijing from 27<sup>th</sup> June, 2010.
- **'Adaptations in fresh water nematodes'** at Department of Biological Sciences, Ghent University, Ghent, Belgium (12<sup>th</sup> May, 2011).
- **'Developmental biology of soil-inhabiting nematodes'** Department of Biological Sciences, Ghent University, Belgium (12<sup>th</sup> May, 2011).



- **'Is it worthwhile to study taxonomy'** at Department of Animal Ecology, Bielefeld University, Bielefeld Germany (27<sup>th</sup> June, 2011).
- **'Classical Taxonomy: redundant or indispensable'** at Ecosystem Sciences, CSIRO, Black Mountain laboratories, Canberra, Australia (9<sup>th</sup> May, 2013)

**i. Invited Lectures delivered at**

- the Global meet of Parasitologists at Bangalore University, Bangalore (2004).
- the mid-term meeting of Indian Academy of Sciences, Bangalore (July, 2008).

**Besides**

invited talk at several Universities including

- MaharshiDayanand University, Rohtak
- Udaipur University, Udaipur,
- MANUU, Hyderabad
- Utkal University, Bhubaneswar
- Meerut University, Meerut
- FBRC, Hyderabad

Plenary lecture at Symposium on Fish Parasites' on 09 September, 2018 at University of Lucknow.

**ii. Training imparted at National level**

**i. Active involvement in the training course/ workshop held in the department**

**Resource person**

- i. "First All India Advanced Training Course on Nematode Pest Identification", Dec. 19-31, 1988 (sponsored by UGC and INSA, New Delhi)
- ii. "Advanced Training Course on Nematode Pests of Rice and Predators and Parasites of Insect Pests", May 16-June 5, 1989 (sponsored by the International Rice Research Institute)
- iii. "Advanced Training Course in Nematode Taxonomy", Dec. 15-28, 1997 (sponsored by the Ministry of Environment & Forests, Govt. of India)
- iv. Workshop on "Taxonomy and the importance of nematodes in biodiversity studies", March 17-18, 2008 (sponsored by the Ministry of Environment & Forests, New Delhi)

- v. International Workshop on “New and emerging trends in Nematological research in the 21st century with particular emphasis on plant protection”, 26.2.2007-3.3.2007 (Sponsored by INSA and AMU)
- vi. National Symposium, “Frontiers in Life Sciences: Basic and Applied”. MAASCON-1, October 23-24, 2010.

### **Organizing Secretary**

Workshop on “Nematodes as Models in Biological Studies”, March 7-15, 2005 (sponsored by CSIR, INSA, & AMU)

### **iii. Resource Person in Courses/ workshops on Taxonomy**

- i. “Thematic Workshop on Helminthological Research” organized by the Department of Zoology, Ch.C.S. University, Meerut (U.P.) May 24 -26, 2013.
- ii. Recent Advances in Nematode Taxonomy (RANT-2014)” organized by the Department of Zoology, Ch.C.S. University, Meerut (U.P.) March 25-31, 2014.
- iii. International Conference on Faunal biodiversity and their conservational strategies organized by University of Lucknow, 22-23 March, 2014.

### **iii. Resource person at UGC Refresher Course**

Refresher course in Zoology at Lucknow University (2011, 2012, 2013, 14)

### **iv. Research guide to Summer fellows of Indian Academies and Institutes**

- Guided Summer student **Mr. Pandya Rajan, Department of Toxicogenomics, Madurai Kamraj University**, Madurai from May to July 2008.
- Guided post graduate student, **Javaid Hussain from Department of Zoology, University of Kashmir, Srinagar** for two weeks in April, 2008.
- Guided a summer fellow **Mr Rajendra Suryawanshi, Lecturer Department of Zoology, G.E.T.s Arts, Science & Commerce College, Nagaon, Dhule-424 005** in the year 2009.
- Guided summer fellow, **Mr. Mohd. Akram, M. Tech student, IIT Roorkee** in the year 2011 now a PhD scholar at Max Plank Institute, Germany.

### **v. Taxonomic training to individual scholars from other institutes**

1. **Javaid Hussain**, post-graduate student, **Department of Zoology, University of Kashmir, Srinagar** for two weeks in April, 2008 (Taxonomy of plant parasitic nematodes).
2. **Ms. Regina**, PhD scholar from **Kochin University of Science and Technology**, Kerala, 2013 (Taxonomy of marine nematodes).
3. **Ms. Shanti Priya**, research scholar from **Kochin University of Science and Technology**, Kerala, 2013 (Taxonomy of marine nematodes).

4. **Dr. Jagdeesh Patil**, Assistant Professor, NBAIR, Bangalore (Taxonomy of entomopathogenic nematodes).
5. **Mr. Satish Chavan**, ARS Scientist, Directorate Rice Research, Hyderabad
6. Guided Ms. **Farheen** from Gargi College, Delhi University, 2015
7. Mr. Satyajeet Gupta, research scholar (Supervisor: Renee Borges, Head Department of Ecological Sciences, Indian Institute of Sciences, Bangalore) (2017)

## **15 a Referee and review work at International level**

### Journals

- i. *Biologia*, Russia
- ii. *Helminthologia*, Slovakia
- iii. *Journal of Nematology*, US
- iv. *Journal of Nematode Morphology and Systematics*, Spain
- v. *Nematology*, The Netherlands.
- vi. *Paedobiologia*, Germany
- vii. *Tropical Zoology*, Italy
- viii. *Zootaxa*, New Zealand
- ix. *Zookeys*, U.S.
- x. *Archives of Phytopathology and Plant Protection*, UK

### On Editorial Board of

- Science and Education publishing, USA
- American Journal of Zoological Research
- American Journal of Bioscience
- Tropical Endangered organisms and conservation (open access)

## **15 b. Referee and review work of National journals**

- iii. Current Science.
- iv. Proceedings of the National Academy of Science, India
- v. Journal of Parasitic Diseases
- vi. Indian Journal of Microbiology

## **16 a International research grant**

Research project on “Impact of biocontrol fungus on nematodes” funded by Rothamsted International, UK

## **16 b National Research Projects undertaken as PI**

- i. Biosystematics of sewage nematodes (INSA) (2000-03)
- ii. Nematode faunal diversity of Keoladeo National Park, Rajasthan (MEF) (2001-04).
- iii. Taxonomy of freshwater nematodes of Aligarh (DST) (2002-05).
- iv. Taxonomic diversity of nematodes of the wetland Shekha Jheel (DST) (2008-11)
- v. Nematode faunal diversity and community structure: indicators of environmental conditions at Keetham lake, Agra (MEF) (2010-13).

## **17. Participation in Conference/ Meeting abroad**

1. **Rothamsted International Biomarket 2002** held at Rothamsted Research **Harpenden, UK** from 5-7<sup>th</sup> November, 2002.
2. **Conference “Offered Papers in Nematology”** organised by **Association of Applied Biologists**, held at The Linnaean Society, **London** on 17<sup>th</sup> Dec, 2002.
3. **PCN Research Priorities: Open forum** held at Rothamsted Research, **Harpenden, UK** from 18-19<sup>th</sup> March, 2003.
4. **55<sup>th</sup> International Symposium on Crop Protection** held at University of **Ghent**, Belgium on 6<sup>th</sup> May, 2003.
5. **TWOWS General Assembly and Fourth International Conference** held at Beijing from 26-30 June, 2010.
6. **63<sup>rd</sup> International Symposium on Crop Protection** held at University of **Ghent**, Belgium on 24<sup>th</sup> May, 2011.

## **18. Research Supervision**

### **PhD completed**

- ✚ Mr. Ather Hussain Title: **Nematode faunal diversity of Keoladeo National Park, Rajasthan**
- ✚ Ms. Rahmat Khan Title: **Taxonomic diversity of nematodes of Aligarh and adjoining areas.**
- ✚ Ms. Razia Sultana Title: **Taxonomy of nematodes associated with Indira Gandhi Canal Command Area, Rajasthan**
- ✚ Ms. Shikha Ahlawat Title: **Taxonomy and biology of rhabditid nematodes.**
- ✚ Ms. Malka Ahlawat Title: **Nematode taxonomic diversity and community structure: indicators of environmental conditions at Keetham lake, Agra**

### **M.Phil. completed**

- Ms. Rahmat Khan MPhil **Study of some monhysterids**
- Ms. Razia Sultana M.Phil **Taxonomic study of nematodes of sewage**
- **Ms. Rehmat Jahan M.Phil Studies on the taxonomic and functional diversity of rhabditid nematodes in Western Uttar Pradesh, India**

### **PhD submitted**

- Mr. Syed Asif Qazi: **Taxonomic diversity of nematodes of the wetland Shekha Jheel.**
- **Ongoing PhD**
- Ms. Rehamat Jahan: **Studies on taxonomy and community ecology of nematodes in habitats with organic enrichment.**
- Mohammad Mahboob: **Taxonomy and biology of the insect-associated nematodes of Terai region of India.**
- Ms. Numreen Nazir: **Taxonomy and biology of the nematodes associated with insects in North India.**

### **M. Sc Dissertation supervised:** (out of which work of 5 has already been published in reputed peer-reviewed journals)

- Saimul Nisa M.Sc 2005 **Description and developmental biology of *Oscheiusshamimi n. sp.*** (work published in *Nematology*)
- Gunjan Bhardwaj M.Sc. 2006 **Taxonomic studies on some cephalobids (Nematoda)**
- S. Jafar Mehdi MSc. 2007 **Study of some enoplid nematodes** (work published in *Nematol. Medit*)
- Deep Jyoti Singh Rana MSc 2008 **Taxonomic studies of some enoplids** (work published in *Journal of Nematology*)
- Tabinda Nusrat MSc 2009 **Taxonomic study of some Tripylidae** (work published in *Journal of Nematology*)
- Malka Mustaqim MSc 2010 **Taxonomic studies on some species of *Plectus*** (work published in *Zootaxa*)
- Samia Kulsoom M.Sc. 2011 **A detailed account of morphology and gonad development in a diplogastrid nematode**
- Hafizur Rahman M.Sc. 2012 **Study of caudal glands and spinneret in some soil and fresh water nematodes**
- Mohammad Mahboob M.Sc. 2013 **Some taxonomic studies on nematodes of family Plectidae.**
- Tasneem Hasan M.Sc. 2014. **Taxonomic studies of few uncommon nematode species.**
- Sobia Khatoon M.Sc. 2015. **Description of nematode species commonly associated with bark of trees.**

- Sumit Kumar M.Sc. 2015. **Taxonomy of few nematode species found in tree holes.**
- Bilquees MSc. 2016 **Comparative study of Gonads in some rhabditids.**
- **Mohd Amil MSc. 2017 Taxonomy of nematodes from sewage**

## **19. Membership of Academic Bodies**

- i. Gratis member of Organization for Women Science for the Developing World(**OWSDW**), Italy
- ii. Honorary member of Society of Wetland Scientists (**SWS**), US
- iii. Member of Organization of Nematologists of Tropical America (**ONTA**), US
- iv. Life member of Indian Science Congress Association (ISCA)
- v. Life member of Indian Society of Parasitologists (ISP)
- vi. Life member of Indian Society of Developmental Biologists (ISDB)
- vii. Member of Nematological Society of India (NSI)

## **About Research orations and Publications**

### **Participation in conferences/ symposia in the country**

- 1. National Conference on Plant Parasitic Nematodes, Problems and Progress**, held at IARI, New Delhi from Dec. 12-16,1986.
- 2. YoungScientist Workshop on Environmental.Nematology**, held at University of Allahabad from Nov. 1-6, 1987.
- 3. First All India Advance Course on Nematode pest identification**, held at Dept of Zoology, AMU, Aligarh from Dec. 19-31, 1988.
- 4. Advance Training Course in Identification of Nematode pests and predators of rice insect pests**, held at Dept of Zoology, AMU, Aligarh from May 16 to June 5, 1989.
- 5. National Conference on Pest, Parasite and Environment**, held at Dept of Zoology. AMU, Aligarh from Feb 11-13, 1991.
- 6. All India Symposium on Developmental Biology**, held at Dept. of Zoology, Ajmer University, Ajmer from Mar.25-27, 1992.
- 7. 80th Session of Indian Science Congress Association**, held at Goa from Jan 3-8, 1993.

8. **Symposium on Recent Approaches in Integrated Nematode Management of Agricultural Crops**, held at Dept. of Nematology, C. C.H. A. U. Hissar from Aug 3-7, 1993.
9. **81st session of Indian Science Congress Association** held at Rajasthan University, Jaipur from Jan. 3-8, 1994.
10. Symposium on **"An Appraisal of Nematode Management Approaches with Eco-friendly Bio-components"**, held at IARI, New Delhi from Mar. 24- 26, 1995.
11. **Advance Training Course in Nematode Taxonomy Sponsored by MOEF**, New Delhi, held at Department of Zoology, AMU from Dec. 15-28, 1997.
12. **14th National Congress of Parasitology**, held at ICGEB, New Delhi from Apr 23-26, 2000.
13. **3<sup>rd</sup> Global meet on Parasitic Diseases** held at Bangalore University from 12<sup>th</sup> -16<sup>th</sup> January, 2004.
14. Organized the workshop on Nematodes as models in Biological Studies held at Dept. of Zoology, AMU from March 7-15, 2005.
15. National Symposium on **"Recent advances and Research Priorities in Indian Nematology"** held at IARI, New Delhi from 9th - 10th December, 2005
16. Eighteenth Mid-term meeting of Indian Academy of Sciences, Bangalore held at Bangalore from 2-5 July, 2007.
17. Seventy third Annual meeting of Indian Academy of Sciences, Bangalore held at Tiruananthapuram from 1-4 November, 2007.
18. Ninetenth Mid-term meeting of Indian Academy of Sciences, Bangalore held at Bangalore from 4-5 July, 2008.
19. Platinum Jubilee Meeting of Indian Academy of Sciences, Bangalore held at Hyderabad from 2-5 July, 2009.
20. Seventy sixth Annual meeting of Indian Academy of Sciences, Bangalore held at Goa from 12-14 November, 2010.
21. 80<sup>th</sup> Annual meeting of Indian Academy of Sciences, Bangalore held at IITM, Chennai from 7 to 9 November 2014
22. 82<sup>nd</sup> Annual meeting of Indian Academy of Sciences, Bangalore held at IISER, Bhopal from 4 to 6 November 2016
23. National Conference on "Current Status of Freshwater Faunal Diversity in India" at FBRC, Hyderabad from 26-27 May 2017

### **Figures on the cover page of journals**

- **Nematology (1999) vol 1 (No. 3)**
- **Journal of Nematode Morphology and Systematics (2005 publ 2006) vol 18 (NO. 2)**
- **Nematologia Mediterranea (2006) vol 34 (No. 1)**
- **Journal of Nematode Morphology and Systematics (2007) vol 19 (NO. 2)**

## **THE PEER-REVIEWED PUBLICATIONS IN ISI INDEXED JOURNALS OF REPUTE**

1. **TAHSEEN, Q. & JAIRAJPURI, M.S. (1988).** Description and developmental biology of *Teratorhabditis andrassyi* n. sp. (Nematoda: Rhabditida). ***Revue de Nematologie* 11: 333-342. (France)**
2. **TAHSEEN, Q.; JAIRAJPURI, M.S. & AHMAD, I. (1990).** The life cycle of *Mononchoides fortidens* (Nematoda: Diplogastrida) with emphasis on gonad development. ***Nematologica* 36 : 440-447. (The Netherlands)**
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## **Book**

ATHER HUSSAIN AND **QUDSIA TAHSEEN** (2015). Nematodes as environmental indicators of Keoladeo National Park. **ISBN: 978-3-659-67319-1**

**Blurb of the book:** *It is a fact that Keoladeo National Park (KNP) has been the focus of many earlier studies and faunal surveys but the nematode faunal diversity has been the aspect virtually neglected in all such work. The second author thus conceived this problem and submitted a proposal to Ministry of Environment and Forests (MEF), New Delhi. The present work has seen the light of the day due to the curious efforts of the second author who volunteered the pioneering study on the nematodes of the KNP. This book brings about a detailed account of the nematodes and their ecological relevance in the wetland's subterranean food web. Thus the degree of disturbance or the enrichment and the maturity status of the environment have been evaluated using these cost-effective biological models.*

REHMAT JEHAN AND QUDSIA TAHSEEN (2018). Diversity of Order Rhabditida in an Indian state. ISBN: 978-613-7-03270-1

**Blurb of the book:** Diversity is a broad term that refers to morphological variations as well as ecological versatility in the environment. With the technological advancement, the environmental conditions (soil, air and water) are deteriorating day by day due to accumulation of contaminants and pollutants. Therefore, it is necessary to find out the role and response of microorganisms in the soil food web to such changing conditions. Nematodes are such unique organisms that are found in nearly all environments and exhibit many feeding guilds. Their presence in soil pores is an advantageous feature that enables them to detect even minor changes in the concentration of soil chemicals. The present work has been done to study morphological, developmental and ecological diversity in nematodes of Order Rhabditida in an Indian State. The composition of nematode communities in three different habitats in the districts of Western Uttar Pradesh has been studied as an indicator of soil health. Since Rhabditida is a diverse group with few species highly tolerant to the disturbances whereas others specifically susceptible, such type of comprehensive study gives a holistic measure of biotic and functional status of soil.

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While working on the soil nematodes associated with insects, a cheap yet effective medium was developed to culture *Heterorhabditis indica* *in vitro*. The culturing protocol provides a cost effective strategy for ten-fold mass production of *Heterorhabditis indica* that can be formulated and used as an effective biocontrol agent of a good number of Lepidopterous insect pests.