



DR. MOHAMMAD MAQBOOL AHMAD

FOUNDER FATHER

**NATIONAL NEMATOLOGICAL RESEARCH CENTRE,
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PERSONAL

NAME Dr. M. A. Maqbool
DESIGNATION Founder-Director, National Nematological
Research Centre, University of Karachi, Karachi
(1974-2001)
DATE OF BIRTH 10th March, 1941
**RESIDENTIAL
ADDRESS** 4-G-6/8, Nazimabad, Karachi-18, Pakistan

EDUCATION

Ph. D. (Plant Nematology) 1984
University of Karachi, Karachi

*“Studies on plant parasitic nematodes of cereals and fruit of
Pakistan with special reference to *Quinisulcius solani*
Maqbool, 1982”.*

M.Sc. (Agriculture) 1962
Sindh Agriculture University, Tandojam, Sindh

B. Sc. (Biological Science) 1960
University of Karachi, Karachi

EXPERIENCE

Director
National Nematological Research Centre, University of
Karachi, Karachi 1989-2001

Senior Scientific Officer
National Nematological Research Centre, University of
Karachi, Karachi 1987

Nematologist
PI- PL-480 project,
National Nematological Research Centre, University of
Karachi, Karachi 1974

Assistant Nematologist
Pest Management Project, PARC
National Nematological Research Centre, University of
Karachi, Karachi 1973

Lecturer
Department of Plant Pathology,
Agricultural Research Institute, Tandojam 1967

Research Assistant
Department of Plant Pathology,
Agricultural Research Institute, Tandojam 1962

AWARDS AND HONORS

Awarded special shield in recognition of his services on the occasion of the 4 th International Conference of Pakistan Phytopathological Society at Karachi, Pakistan.	2014
Awarded Special Shield for his outstanding contributions in field of Nematology.	2002
Patron, Pakistan Journal of Nematology (PJM).	January 2002- Present
Selected as Chairman, Steering Committee for Nematode Management in the Near East Region on the occasion of (FAO – National Nematological Research Centre) Second International Workshop, Expert Consultation on Plant Nematode Problems and their Control in the Near East Region, Karachi, Pakistan.	1992
Director of National Nematological Research Centre, University of Karachi, Karachi.	1989
Consultant, International Foundation for Science (IFS), Grev Turegatan, Stockholm, Sweden	1988
Member, Editorial Board, Sarhad Journal of Agriculture, NWFP Agriculture University, Peshawar, Pakistan.	1987
Awarded “United States Department of Agriculture Award” for Scientific Accomplishments in Nematology on the occasion of the International Workshop on Plant Nematology, Karachi, Pakistan.	1986
Founder member and Secretary/Treasurer of Pakistan Society of Nematologists.	1983
Member, Technical Committee, Pakistan Agricultural Research Council, Islamabad, Pakistan.	1982
Regional Cooperator, International <i>Meloidogyne</i> Project North Carolina State University at Raleigh, USA.	1979
Established National Nematological Research Centre, University of Karachi, Karachi	1974

RESEARCH INTEREST

Plant Parasitic Nematodes; Marine nematodes, Soil nematodes and Entomopathogenic nematodes, Taxonomy, Ecology, Biology and Pest Control.

ADVANCED TRAINING IN NEMATOLOGY

Nematology Laboratory, USDA, Beltsville, Maryland, USA
North Carolina State University, Raleigh, USA
Commonwealth Institute of Parasitology, Herts, UK
Rothamsted Experimental Station, Harpenden, UK

ACADEMIC AND RESEARCH CONTRIBUTIONS IN THE FIELD OF NEMATOLOGY

35 years experience of teaching and research solely in the field of Nematology for post graduate students (M. Sc., M. Phil and Ph. D.) at University of Karachi, Karachi.

PRINCIPAL ORGANIZER OF NATIONAL SYMPOSIUM / SEMINARS / CONFERENCE / WORKSHOPS

First National Seminar-cum-Workshop on Nematode Problems in Agriculture crops in Pakistan at Nematological Research Centre, University of Karachi, Karachi, Pakistan.	August 10-12, 1977
First National Training Course on Plant Nematology at Nematological Research Centre, University of Karachi, Karachi, Pakistan.	February 2-21, 1980
Second National Training Course on Plant Nematology at Nematological Research Centre, University of Karachi, Karachi, Pakistan.	November 20 - December 2, 1984
US-PAK First International Workshop on Plant Nematology at Nematological Research Centre, University of Karachi, Karachi, Pakistan.	April 6 – 8, 1986
FAO-NNRC Second International Meeting on Plant Nematology for an Expert Consultation on Plant Nematode Problems and their control in the Near East Region at Karachi, Pakistan.	November 22-26, 1992
National Symposium on Nematology at Karachi, Pakistan.	January 7-9, 2002

PRINCIPAL INVESTIGATOR OF RESEARCH PROJECTS

Survey of fruit orchards of Garden Palace, Nematological Research Centre, University of Karachi, Karachi (NDVP).	1975
Biochemical studies on plants infected by parasitic nematodes, sponsored by Pakistan Science Foundation (PSF).	1975-1977
Biological studies on cereal and fruit nematodes of Pakistan, PL-480 Project, sponsored by United States Department of Agriculture (USDA). (Co-PI)	1978-1982
Investigation on nematodes associated with fruit crops of Pakistan and their control, PL-480 Project, sponsored by United States Department of Agriculture (USDA).	1982-1987
Strengthen Nematological Research Laboratory, sponsored by Pakistan Agricultural Research Council, Islamabad (PARC).	1983-1986
Studies on culturing of <i>Meloidogyne incognita</i> and <i>Heterodera zea</i> on excited roots of tomato and corn, sponsored by Pakistan Science Foundation (PSF).	1985-1987
Studies on resistance in egg plant (<i>Solanum melongena</i> L.) and potato (<i>Solanum tuberosum</i> L.) and influence of salinity on infectivity and development of <i>M. javanica</i> , sponsored by Pakistan Science Foundation (PSF).	1988-1990
Investigation on the cereal cyst nematode problem in wheat and barley for screening resistance against <i>Heterodera avenae</i> , sponsored by Pakistan Atomic Energy Commission (PAEC).	1989-1991
Studies on the control of phytonematodes with botanical toxicants. Sponsored by Third World Academy of Science (TWAS), Italy.	1990-91
Studies on the predacious nematodes of agricultural importance in Pakistan. Sponsored by University Grants Commission (UGC), Islamabad.	1991-92

BIODATA

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| Studies on the cyst nematodes of Pakistan with special reference to <i>Heterodera cynodontis</i> Shahina & Maqbool, 1989, sponsored by International Foundation for Science (IFS). | 1991-1993 |
| Studies on the entomopathogenic nematodes, sponsored by University of Karachi, Karachi-75270, Pakistan. | 1997-1998 |
| Biodiversity in free-living marine nematode fauna of Arabian Sea from coastline of Pakistan, sponsored by Office of Naval Research (ONR), USA (Co-PI). | 1998-2000 |

**RESEARCH SUPERVISOR OF POST-DOCTORAL FELLOW, PH. D. / M.
PHIL AND M. Sc. STUDENTS**

Name	Title	Year
<u>Post Doctoral Training</u>		
Dr. E.O. Salawu University of Ilorine, Nigeria	<i>Nematode Taxonomy</i> under World Bank Fellowship Program.	1994
<u>Ph. D. Thesis</u>		
Dr. Shahina Fayyaz	<i>Studies on the important Plant Parasitic Nematodes of Cereal and Vegetable Crops of Pakistan with special reference to Heterodera zae and H. avenae.</i>	1990
Dr. Zarina Begum	<i>Studies on Plant Parasitic Nematodes of ornamental plants with special reference to root-knot nematodes.</i>	1997
Dr. Nasira Kazi	<i>Studies on the families Longidoridae, Trichodoridae and Dolichodoridae, with special reference to virus vector nematodes of Pakistan.</i>	1997
Dr. Firoza Kazi	<i>Taxonomic studies of the plant parasitic nematodes belonging to the family Hoplolaimidae with special reference to the genus Helicotylenchus.</i>	1997
Dr. Muhammad Abid	<i>Studies on control of phytonematodes with botanical toxicants with special reference to neem (Azadirachta indica)</i>	1997
<u>M. Sc. Thesis</u>		
Muhammad Kamran Khan	Association of fungi on cysts of <i>Heterodera zae</i> , Department of Botany, University of Karachi, Karachi.	1992
Muhammad Shakeel	Qualitative and quantitative studies of the nematode fauna of garden rose and jasmine from different localities of Karachi, Department of Botany, University of Karachi, Karachi.	1992
Muhammad Hanif	Qualitative and quantitative studies of parasitic nematodes associated with lawn grass (<i>Cynodon dactylon</i> L.) from Karachi, Department of Botany, University of Karachi, Karachi.	1992

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Syed Azam Shah	Studies of the interaction of <i>Meloidogyne incognita</i> with <i>Fusarium oxysporium</i> , <i>Rhizoctonia solani</i> and <i>Macrophomina phaseolina</i> on mungbean (<i>Vigna radiata</i>), Department of Botany, University of Karachi, Karachi.	1992
Uzma Nasreen	Distribution and population fluctuation of certain plant parasitic nematodes associated with banana in Sindh, Department of Botany, University of Karachi, Karachi.	1996
Husn-e-Samreen	Studies on parasitic nematodes associated with pineapple and citrus in Karachi with seasonal fluctuation of citrus nematodes, Department of Botany, University of Karachi, Karachi.	1996

MEMBER OF PROFESSIONAL SOCIETIES

- Member, American Society of Nematologists, USA
- Member, European Society of Nematologists, UK
- Member, Executive Committee, Afro- Asian Society of Nematologists, UK
- Member, Helminthological Society of Washington, USA
- Member, American Phyto-Pathological Society, USA
- Member, Organization of Tropical American Nematologists (OTAN), USA
- Member, Botanical Society of Pakistan, Pakistan
- Founder Member, Pakistan Society of Nematologists, Pakistan
- Secretary/Treasurer, Pakistan Society of Nematologists, Pakistan
- Member, the Pakistan Pharmacological Society, Pakistan
- Member, Zoological Society of Pakistan
- Member, Pakistan Phytopathological Society, Pakistan

ATTENDED NATIONAL AND INTERNATIONAL SCIENTIFIC MEETINGS

International

17 th Annual Conference, Society of Nematologists, Hot Spring, Arkansas	USA	1978
XV th International Nematology Symposium of European Society of Nematologists, Bari	Italy	August 24-30, 1980

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20 th Annual Meeting of the Society of Nematologists, Seattle, Washington	USA	August 16-19, 1981
3 rd Research and Planning Conference for Region-VI of the IMP, Jakarta	Indonesia	July 20-24, 1981
21 st Annual Meeting of the Society of Nematologists, Knoxville, Tennessee	USA	July 26-30, 1982
16 th International Nematology Symposium of European Society of Nematologists, Dundee, Scotland	UK	August 29 - September 4, 1982
First International Congress of Nematology, Guelph, Ontario	Canada	August 5-10, 1984
25 th Annual Meeting [Silver Anniversary Meeting (1961-1986)], Society of Nematologists, Orlando, Florida	USA	August 17-22, 1986
XVIII Symposium International of European Society of Nematologists, Antibes	France	September, 7-12, 1986
ICARDA-Workshop on Plant Parasitic Nematodes in Cereal and Legume Crops in Temperature Semi-Arid Region, Larnaca	Cyprus	March 1-5, 1987
28 th Annual Meeting of Society of Nematologists, Davis, California	USA	August 13-17, 1989
21 st International Nematology Symposium of European Society of Nematologists, Albufeira, Algarva	Portugal	April 11-17, 1992
Darwin Nematode Workshop, Plymouth Marine Laboratory	UK	July 3-7, 2000

National

FAO Training Course on Cereal Diseases, Agricultural Research Institute, Tarnab, Peshawar	Peshawar	1964
FAO/UNEP Consultation of Pest Management Systems for the control of cotton pest		1975
RCD Seminar on Pest Control in Rice	Karachi	1975
14 th All Pakistan Science Conference, organized by Scientific Society of Pakistan		1974

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15 th All Pakistan Science Conference, organized by Scientific Society of Pakistan		1975
16 th Annual Science Conference, Agriculture University, Lyallpur, organized by Scientific Society of Pakistan.	Lyallpur	March 14-18 1976
17 th Annual Science Conference, Peshawar University, organized by Scientific Society of Pakistan.	Peshawar	1977
18 th All Pakistan Science Conference, organized by Scientific Society of Pakistan.		1978
19 th Annual Science Conference, Quid-e-Azam University, Islamabad, organized by Scientific Society of Pakistan.	Islamabad	1979
20 th National Science Conference, Federal Government Urdu Science College, organized by Scientific Society of Pakistan.	Karachi	1980
21 st National Science Conference, Islamia University, Bahawalpur, organized by Scientific Society of Pakistan.	Bahawalpur	1981
First all Pakistan Conference of Plant Scientists, University of Karachi.	Karachi	February 23- 26, 1982
National Symposium on the Role of Universities in improving the Scientific Education and Research	Karachi	August 11- 12, 1982
Agricultural Genotoxicity in Developing Countries, PARC.	Islamabad	November 1- 5, 1982
National Symposium Workshop on Mangrove, University of Karachi.	Karachi	August 8-10, 1983
Twenty-ninth All Pakistan Science Conference	Karachi	December 26 – 30, 1983
Second National Conference of Plant Scientists, Botany Department, Punjab University New Campus	Lahore	November 25-28, 1984
Second National Meeting on Plant Tissue Culture, Baragali	Abbotabad	July 15-17, 1985

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23 rd Annual National Science Conference, Punjab University, Lahore, organized by Scientific Society of Pakistan.	Lahore	December, 1985
International Conference on Marine Science of the Arabian Sea	Karachi	March 29 - April, 1986
US-Pakistan First International Workshop on Plant Nematology	Karachi	April 6- 8, 1986
International Seminar on Quran and Science	Karachi	June 26, 1986
24 th Annual National Science Conference, Shiek Zaid Islamic Center, University of Karachi, organized by Scientific Society of Pakistan.	Karachi	December 11-15, 1987
National Seminar on the Role of Plant Health and Care in Agricultural Production	Faisalabad	December 28-29, 1988
International Symposium on Plant Life of South Asia (on the Centennial of Dr. R.R. Stewart)	Karachi	February 24, 1990
Twenty Sixth National Science Conference		1990
25 th Annual National Conference, NED University of Engineering and Technology, Karachi, organized by Scientific Society of Pakistan	Karachi	February 16-18, 1991
National Symposium on Status of Plant Pathology in Pakistan	Karachi	December 3-5, 1991
1 st International Conference of Pharmaceutical Sciences	Karachi	January 18-21, 1992
Second International Meeting on Plant Nematology	Karachi	November 22-26, 1992
Fourth National Conference on Plant Scientists	Faisalabad	February 16-18, 1993
Thirteenth Pakistan Congress of Zoology	Islamabad	March 31-April 01, 1993
Fifth National Science Conference on Plant Scientists	Faisalabad	February 16-18, 1993
International Symposium on Biodiversity of Pakistan.	Islamabad	November 7-8, 1995
Seminar on INCO-DC European Union Specific programme for S & T Cooperation with developing countries	Islamabad	April 14, 1997

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3 rd International Symposium on Genetic Engineering and Biotechnology: Industrial and Environmental Biotechnology	Karachi	February 24-28, 1998
National Workshop on Bioassay Techniques	Karachi	August 26-28, 1999
National Symposium on Nematology	Karachi	January 7-9, 2001
3 rd National Conference of Plant Pathology, Islamabad	Islamabad	October 1-3, 2001
Fourth National Conference of Plant Pathologists		October 14-16, 2003

RESEARCH PAPERS PRESENTED IN CONFERENCES / SEMINARS

International

Nematode problems on the economically important crops of Pakistan. <i>XVth International Symposium of European Society of Nematologists</i> , Bari (1980).	Italy
Occurrence of root-knot and cyst nematodes in Pakistan, <i>20th Annual Meeting of Society of Nematologists, Seattle, Washington</i> (1981).	USA
Morphological relationships of three undescribed Neotylenchid nematodes (Neotylenchoidea) from Pakistan, <i>20th Annual Meeting of Society of Nematologists, Seattle, Washington</i> (1981).	USA
Studies on the chemical control of root-knot nematodes, <i>Third Research Planning Conference on root-knot nematodes (IMP) Region – VI, Jakarta</i> (1981).	Indonesia
Studies on root-knot nematodes in Pakistan, <i>Third research Planning Conference on root-knot nematodes (IMP), Region-VI, Jakarta</i> (1981).	Indonesia
Morphology and relationship of a new genus and species in the subfamily Tylenchinae (Nematoda: Tylenchida) from Pakistan. <i>21st Annual Meeting of Society of Nematologists, Knoxville, Tennessee</i> (1982).	USA
Occurrence of some members of Tylenchorhynchinae and Merliniinae in Pakistan. <i>21st Annual Meeting of Society of Nematologists, Knoxville, Tennessee</i> (1982).	USA

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- Nematodes associated with *Oryza sativa* in Pakistan. 21st Annual Meeting of Society of Nematologists, Knoxville, Tennessee (1982). USA
- Biological studies on *Quinisulcius solani* associated with potato crops in Pakistan, First International Congress of Nematology, Guelph, Ontario (1984). Canada
- Morphology and relationship of a new species in the subfamily Leipotylenchinae (Nematoda: Tylenchida) from Pakistan. First International Congress of Nematology, Guelph, Ontario (1984). Canada
- Effect of granular nematicides on nematode population and sugarcane yield. 25th Annual Meeting of Society of Nematologist, Orlando, Florida (1986). USA
- Observation on the morphology and systematic of three new species of the sub family Merliniinae Siddiqi, 1970 from northern areas of Pakistan. 25th Annual Meeting of Society of Nematologists, Orland, Florida (1986). USA
- Culture of *Meloidogyne incognita* and *M. javanica* on excised roots of different cultivars of tomato, Antibes (1986) France
- Root-knot nematode problem in Pakistan and strategy for their control, Antibes (1986). France
- Present status of research on plant parasitic nematodes in cereals, food and forage legumes in Pakistan, *Nematode parasitic to cereals and legumes in Temperature Semi-arid regions*, Larnaca (1987). Cyprus
- Morphology and relationship of three new species and a new genus of subfamily Criconematinae (Nematoda: Tylenchida) from Pakistan. 28th Annual Meeting of Society of Nematologists, University of California, Davis, California (1989). USA
- Phytoparasitic nematodes associated with agricultural crops and other plantations in Pakistan and their control strategies, 21st International Nematology Symposium of European Society of Nematologists, Alfabura (1992). Portugal

National

- Studies on some parasitic nematodes on rice crop in Pakistan, RCD Seminar on Rice (1975). Islamabad

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- Population dynamics of parasitic nematodes of banana, okra and tomato crops and their environmental studies, Biological Science Division, 17th Annual Science Conference, Peshawar University (1976). Peshawar
- Biochemical studies on okra and banana crops infected by parasitic nematodes Biological Science Division, 17th Annual Science Conference, Peshawar University (1976). Peshawar
- Effect of latex extract on the activity of *Meloidogyne* larvae *in vitro*. Second National Conference of Plant Scientists. Department of Botany, Punjab University, New Campus (1984). Lahore
- A new record of *Meloidogyne incognita* on *Cinera*. Second National Conference of Plant Scientists. Department of Botany, Punjab University, New Campus (1984). Lahore
- Resistance in some wheat varieties against *Anguina tritici*. Second National conference of Plant Scientists, Department of Botany, Punjab University, New Campus (1984). Lahore
- Neem derivatives for the control of root-knot nematode (*Meloidogyne incognita*). 1st International Conference of Pharmaceutical Sciences, Faculty of Pharmacy, University of Karachi (1992). Karachi
- Status of Nematology in Pakistan, *Status of Plant Pathology*, Karachi, (1992). Karachi
- Fungi associated with cysts of *Heterodera zaeae*, Ayub Agriculture Research Institute (1993) Faisalabad
- Interaction of *Meloidogyne incognita* with *Macrophomina phaseolina* on mungbean, Ayub Agriculture Research Institute (1993) Faisalabad
- Pathogenicity of *Heterodera cynodontis* Shahina & Maqbool, 1989 on *Cynodon dactylon*, Ayub Agriculture Research Institute (1993) Faisalabad
- Studies on the morphology of adults and juveniles of *Xiphinema basiri* Siddiqi, 1959, Ayub Agriculture Research Institute (1993) Faisalabad
- Biodiversity in plant parasitic nematodes of Pakistan, *Biodiversity of Pakistan* (1995). Islamabad
- Progress and Prespective in Nematology in Pakistan (2003). Rawalpindi

RESEARCH PUBLICATIONS**BOOKS**

1. **Maqbool, M.A. (1983).** *Plant parasitic nematodes: A diagnostic and advisory services for farmers in Pakistan.* National Nematological Research Centre, University of Karachi, Karachi (Urdu and English versions).
2. **Maqbool, M.A. (1983).** *Nematode diseases of banana in Pakistan and their control.* National Nematological Research Centre, University of Karachi, Karachi, 12 pp (Urdu version).
3. **Maqbool, M.A. (1984).** *Nematode diseases of citrus in Pakistan and their control.* National Nematological Research Centre, University of Karachi, Karachi, 12 pp (Urdu version).
4. **Maqbool, M.A. (1984).** *Nematode disease of rice in Pakistan and their control.* National Nematological Research Centre, University of Karachi, Karachi, 10 pp (Urdu version).
5. **Maqbool, M.A. (1984).** *Nematode diseases of sugarcane in Pakistan and their control.* National Nematological Research Centre, University of Karachi, Karachi, 9 pp (Urdu version).
6. **Maqbool, M.A. (1984).** *Golden cyst nematode disease of potato and their control.* National Nematological Research Centre, University of Karachi, Karachi, 18 pp (Urdu version).
7. **Maqbool, M.A. (1986).** *Classification and Distribution of Plant Parasitic Nematodes in Pakistan.* National Nematological Research Centre, University of Karachi, Karachi, 68 pp.
8. **Maqbool, M.A. & A. Ghaffar. (1986)** *Status of Plant Nematology in Pakistan.* National Nematological Research Centre, University of Karachi, Karachi, 44 pp.
9. **Maqbool, M.A. (1990).** *Ten years of NNRC. Research and other activities in Nematology (1981-1990).* National Nematological Research Centre, University of Karachi, Karachi, 65 pp.
10. **Maqbool, M.A. (1990).** *Nematode diseases of vegetable and other crops and their control.* National Nematological Research Centre, University of Karachi, Karachi, Pakistan (Urdu version) 43 pp.
11. **Maqbool, M.A. (1991).** *Nematode diseases of banana and control strategies.* National Nematological Research Centre, University of Karachi, Karachi, Pakistan. (English version) 20 pp.

- 12. Maqbool, M.A. (1991).** *Nematode diseases of banana and their control strategies.* Nematological Research Centre, University of Karachi, Karachi, Pakistan (Urdu version) 17 pp.
- 13. Maqbool, M.A. (1991).** *Nematode pests of economic significance affecting major crops of the countries in Asia and the Pacific region.* Regional Office for Asia and the Pacific (RAPA), Food and Agricultural Organization (FAO) of the United Nations. Asia and Pacific Plant Protection Commission, FAO Technical Document No 140, 65 pp.
- 14. Maqbool, M.A. (1992).** *Distribution and Host Association of Plant Parasitic Nematodes in Pakistan.* National Nematological Research Centre, University of Karachi, Karachi. 215 pp.
- 15. Maqbool, M.A. & M.J. Zaki (1992).** *Annotated Bibliography on Plant Nematology in Pakistan 1947-1992.* National Nematological Research Centre, University of Karachi, Karachi, Pakistan, 172 pp
- 16. Maqbool, M.A. & K. Nasira (2000).** *Systematic and Distribution: Free-living Marine Nematode Fauna of Pakistan.* National Nematological Research Centre, University of Karachi, Karachi, 91 pp.
- 17. Maqbool, M.A. & F. Shahina (2001).** *Systematic and Distribution: Biodiversity of Nematode Fauna in Pakistan.* National Nematological Research Centre, University of Karachi, Karachi, Pakistan, 179 pp.

BOOK CHAPTERS

- 1. Maqbool, M.A. (1986).** Diseases caused by Nematodes, In: A. Hafeez (Ed.) *Plant Diseases*, 356-390 pp.
- 2. Maqbool, M.A. (1987).** Potato cyst nematodes in Pakistan identification, cutting and mounting. In: S.I. Ahmad & A.R. Bhutta (Eds.) *Seed Potato Technology, Proc. of FAO/DANIDA National Training Course*, Islamabad.
- 3. Maqbool, M.A. (1989).** Plant Nematology – Laboratory Techniques. In: Somroo, M.H. & Aslam, M. (Eds.) *Vegetable Diseases*. CDR, NARC, Islamabad, 56-61 pp.
- 4. Maqbool, M.A. & A. Munir (1992).** Phytopathological Diagnostic Techniques. In: *Plant Nematology Laboratory Techniques*. Pakistan Agricultural Research Council, Islamabad, 52-57 pp.
- 5. Maqbool, M.A. (1992).** Status of Plant Nematology in Pakistan. In: Ghaffar, A. & S. Shahzad. (Eds.) *Proc. National Symposium on Status of Plant Pathology in Pakistan*. Department of Botany, University of Karachi, Karachi, Pakistan, 51-57 pp.

6. **Maqbool, M.A. (1997).** Pakistan (Country reports). In: Maqbool, M.A. & B. Kerry (Eds.) *Plant Nematode Problems and Their Control in the Near East Region, FAO Plant Production and Protection paper 144*, 189-229 pp.
7. **Maqbool, M.A. (1997).** Biodiversity of plant parasitic nematodes in Pakistan. In: Shahzad, A. Mufti, Charles, A.W. & Hasan, S.A. (Eds.) *Proc. Biodiversity of Pakistan*. Pakistan Museum of Natural History, Islamabad and Florida Museum of Natural History, Gainesville, 317-324 pp.

PROCEEDINGS

1. **Maqbool, M.A. (1977).** Proceedings and Recommendations. *First National Seminar-cum Workshop on Nematode Problem in Agricultural Crops in Pakistan*. Nematological Research Centre, University of Karachi, Karachi, 21 pp. (August 10-12, 1977).
2. **Maqbool, M.A. (1980).** Proceedings of the *First National Training Course on Plant Nematology*. Nematological Research Centre, University of Karachi, Karachi, 45 pp (February 2-21, 1980).
3. **Maqbool, M.A., A.M. Golden, A. Ghaffar & L.R. Krusberg (1988).** Advances in Plant Nematology. *Proc. US-PAK First International Workshop on Plant Nematology*, National Nematological Research Centre, University of Karachi, Karachi, 294 pp (April 6-8, 1986).
4. **Maqbool, M.A., Ghaffar, A. & Zaki, M.J. (1993).** Proceedings of the *Second International Workshop on Plant Nematology*, National Nematological Research Centre, University of Karachi, Karachi, Pakistan. 131 pp (November 22-26, 1992).
5. **Maqbool, M.A. & B. Kerry (1997).** Plant Nematodes Problems and their Control in the Near East Region. *Proc. Expert Consultation of Plant Nematode Problems and Their Control in the Near East Region* Karachi, Pakistan. 315 pp (November 22-26, 1992).

MONOGRAPHS

1. Nasira, K. & **M.A. Maqbool (1992).** *A Monograph on Stunt Nematodes of Pakistan (Dolichodoridae)*. National Nematological Research Centre, University of Karachi, Karachi, 111 pp.
2. Shahina, F. & **M.A. Maqbool (1995).** *Cyst nematodes of Pakistan (A monograph)*. National Nematological Research Centre, University of Karachi, Karachi, 155 pp.

RESEARCH PAPERS

INTERNATIONAL

- 1 **Maqbool, M.A. (1981).** Occurrence of root-knot and cyst nematodes in Pakistan. *Nematol. Medit.*, 9: 211-212.
- 2 **Maqbool, M.A. & S. Kishwar (1981).** Studies on the chemical control of root-knot nematodes. In: *Proc. Third Research Planning Conference on Root-knot Nematodes (IMP) Region- VI*, Jakarta, Indonesia, 130-141.
- 3 **Maqbool, M.A. & M. Saeed (1981).** Studies on root-knot nematodes in Pakistan. In: *Proc. Third Research Planning Conference on Root-knot Nematodes (IMP), Region-VI*, Jakarta, Indonesia, 115-121 pp.
- 4 **Maqbool, M.A. (1982).** Description of *Quinisuuslcius solani* n. sp. (Nematoda: Tylenchorhynchidae) with a key to the species and data on *Scutylenchus koreanus* from Pakistan. *J. Nematol.*, 14: 221.
- 5 **Maqbool, M.A. (1982).** Studies on some Criconematoidea (Nematoda) from Pakistan with a description of *Hemicriconemoides ghaffari* n. sp. *Rev. Nematol.*, 5: 257-260. 0.539
- 6 **Maqbool, M.A. (1982).** Three new species of the super family Neotylenchoidea (Nematoda: Tylenchida) from Pakistan. *J. Nematol.*, 14: 317-323.
- 7 **Maqbool, M.A. (1982).** Plant parasitic nematodes: Microscopic in size, monstrous in destruction *Progressive Farming*, 2 (5): 27-31.
- 8 **Maqbool, M.A. (1983).** Description of *Paktylenchus turberosus* gen. n., sp. n. (Nematoda: Tylenchinae) from Pakistan. *J. Nematol.*, 15: 76-79.
- 9 **Maqbool, M. A., N. Fatima & F. Shahina (1983).** Morphology and relationship of two new species in the genus Psilenchinae (Nematoda: Tylenchida) with some new records from Pakistan. *J. Nematol.*, 15: 484.
- 10 **Maqbool, M.A., S. Hashmi & B. Zarina (1983).** Onion a new host of *Heterodera mothi* from Pakistan. *Nematol. Medit.*, 11: 213-214.
- 11 **Maqbool, M.A. & F. Shahina (1984).** Description of *Leipotylenchus amiri* n. sp. (Nematoda: Tylenchida) from Pakistan. *Revue Nematol.*, 7 (4): 363-365. 0.539 2
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- 13 **Maqbool, M.A. & F. Shahina (1985).** *Criconemella anastomoides* n. sp. (Nematoda: Criconematina) from Pakistan, *J. Nematol.*, 17(2): 236-239. 3

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