

DR. NASIRA KAZI

PERSONAL

Designation: Senior Scientific Officer,
National Nematological Research Centre,
University of Karachi, Karachi

Current Position: Visiting Faculty,
National Nematological Research Centre,
University of Karachi, Karachi

Date of Birth: 12 February, 1951

Nationality: Pakistani

Official Address: National Nematological Research Centre, University of Karachi,
Karachi-75270, Pakistan

Residential Address: R- 49, Block No. 6, Gulshan-e-Iqbal,
Karachi-75300, Pakistan

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ACADEMIC QUALIFICATIONS

Ph. D. (Nematology)
University of Karachi, Karachi, Pakistan

Thesis title "*Studies on the families Longidoridae, Trichodoridae, and Dolichodoridae with special reference to Virus Vector Nematodes of Pakistan*" (1997).

M. Sc. (Botany: Plant Physiology)
University of Karachi, Karachi, Pakistan (1974)

B. Sc. (Hons) (Botany)
University of Karachi, Karachi, Pakistan (1973)

Intermediate (Biology)
Karachi Board (1970)

S. Sc (Science)
Karachi Board (1968)

PH. D. SUPERVISOR

- Dr. M. A. Maqbool, Founder-Director, NNRC, University of Karachi, Karachi

RESEARCH EXPERIENCE

- 26 years of research experience in plant parasitic nematodes, free-living marine, fresh water and soil nematodes, taxonomy, biology and identification.

FIELD OF SPECIALIZATION

- Marine Nematology: Biosystematics, biodiversity, ecology, taxonomy, biology.

SUPERVISION OF RESEARCH SCHOLARS

Following students have been awarded Ph. D / MS and BS degrees :

- Ph. D: Mr. M. Kamran Khan, Thesis entitled “Biodiversity, systematics and ecology of free-living marine nematodes of Arabian Sea from Pakistan” (2011)
- Ph. D: Ms. Shamim Syed, Thesis entitled “Fresh water nematodes as bioindicators in environmental monitoring” (2015)
- MS: Ms Faiza Niaz, Thesis entitled “Biodiversity of marine nematodes of the order Chromadorida from the coastal areas of Karachi” (2013)
- BS: Ms Abida Begum, Project entitled “Plant parasitic nematodes associated with potato (*Solanum tuberosum* L.): a. Husaini, b. Passu villages of Gojal, Hunza-Nagar and Oshikhandas, Gilgit, districts of Gilgit-Baltistan” (2011)

TRAINING IN NEMATOTOLOGY

- Second International Workshop on Plant Nematology” (November 22-26, 1992) at Karachi, Pakistan
- Special Nematological Training Course under the Expert Availing foreign services of Ministry of Science & Technology by Dr. M. R. Siddiqi, Ph. D., D. Sc. UK, at National Nematological Research Centre, University of Karachi, Karachi, Pakistan (March 4 – June 2, 2004)
- Workshop on Electron microscopy organized by M. A. H. Qadri, Biological Research Centre, in collaboration with Department of Microbiology and Department of Botany, University of Karachi, Karachi, Pakistan (December 22 – 24, 2004)
- An International Training Workshop on Nematode Identification” organized by Pakistan Society of Nematologists & NNRC at National Nematological Research Centre, University of Karachi, Karachi, Pakistan (October 22 – November 3, 2007)

PROFESSIONAL EXPERIENCE

- Present Position: Visiting Faculty, National Nematological Research Centre, University of Karachi (2012 – to date)
- Senior Scientific Officer (BS-18), National Nematological Research Centre, University of Karachi (2008- 2012)
- Scientific Officer (BS-17), National Nematological Research Centre, University of Karachi (2002- 2007)
- PI of PSF project entitled Biodiversity, Systematics and Ecology of free-living marine nematodes of Arabian Sea from Pakistan” (July, 2008 – June, 2010)
- PI of Karachi University project entitled “Biodiversity, Systematics and Ecology of free-living marine nematodes of Arabian Sea from Pakistan” (2006 – 2007)
- PI of Karachi University project entitled “Biodiversity, Systematics and Ecology of free-living marine nematodes of Arabian Sea from Pakistan” (2005 – 2006)
- PI of Karachi University project entitled “Taxonomic studies of free-living marine nematodes of the orders Chromadorida, Enoplida and Monhysterida from Arabian Sea of Pakistan (2004 – 2005)
- Co-PI of ALP project entitled “Integrated Nematode Disease Management (INDM) in some cereals, fruits and vegetables of Pakistan” (May, 2003 – April, 2006)
- PI of Karachi University project entitled “Studies on the marine nematodes fauna of Arabian Sea near coastal areas of Pakistan (2003 – 2004)
- PI of PSF project entitled “Marine nematodes as pollutant indicator” (July, 2002 – June, 2004)
- "Research Associate" in the Office of Naval Research (ONR) U.S.A. project, entitled “Biodiversity in free-living marine nematodes fauna of Arabian Sea from coastline of Pakistan” (April, 1998 – October, 2000)
- Ph. D research scholar (1989 - 1996) at National Nematological Research Centre, University of Karachi

AWARDS AND HONORS

- Awarded a shield on the “Contribution in Nematology” on the occasion of “*Second International Workshop on Plant Nematology*” at Karachi, Pakistan (November 22-26, 1992)

- Awarded “*Special Science and Technology Award*” by the Pakistan Council for Science and Technology (MoST, Government of Pakistan)
- Awarded a certificate for oral presentation “Morphology and Taxonomy of Free-living Marine Nematode *Enoplolaimus karachiensis* n. sp. and Five Known Species (Nematoda: Enoplida; Monhysterida) from Arabian Sea” in the “*Seminar on Aquatic Biodiversity of Pakistan on World Water Day*” at Karachi, Pakistan (March 20-22, 1999)
- Awarded a certificate for oral presentation “Biodiversity in Free-living Marine Nematodes Fauna of Arabian Sea from Coastline of Pakistan”, in *National ONR Symposium on Arabian Sea as a Resource of Biological Diversity* at H.E.J. Research Institute of Chemistry, University of Karachi, Karachi, Pakistan (September 18-20, 2000)
- Member, Editorial Board of “Pakistan Journal of Nematology” since 2002
- Awarded a certificate for oral presentation “Marine Nematode Fauna of Pakistan” in *National Symposium on Nematology* at National Institute of Public Administration (NIPA), Karachi, Pakistan (January 7-9, 2002)
- Awarded a certificate for participation in the “National Training Course on the Identification of Plant parasitic, Soil and Marine Nematodes” at National Nematological Research Centre, University of Karachi, Karachi, Pakistan (March 3-June 2, 2004)
- Awarded a certificate for oral presentation “*Nematodes in Marine Ecosystem*”, in *International Symposium of Biodiversity of Nematode Fauna in Pakistan* at NIPA, Karachi, Pakistan (May 17-19, 2004)
- Awarded a certificate for participation in the “ *Workshop on Electron Microscopy*” at M.A.H. Qadri, Biological Research Centre, University of Karachi, Karachi, Pakistan (December 22-24, 2004)
- Awarded a certificate for oral presentation entitled “*Marine nematode fauna of Arabian Gulf*” in *International Symposium on Recent trends in Plant Disease Management* at KIBGE, University of Karachi, Karachi, Pakistan (December 20-22, 2005)
- Awarded a certificate for oral presentation entitled “*Description of Monhystera marina* n. sp. (Nematoda: Monhysterida) from Sandspit backwater mangrove areas of Karachi”, in *9th National Conference of Plant Scientists* at University of Sindh, Jamshoro, Pakistan (February 13 -15, 2006)
- Awarded a certificate for oral presentation “*Bio-diversity and bio-systematic of free-living marine nematode fauna from Arabian Sea of Pakistan*”, in the *6th National Nematological Conference in Pakistan and Workshop on Integrated Nematode Disease Management (INDM) in some cereals, fruit and vegetables of Pakistan* at NNRC, University of Karachi, Karachi, Pakistan (April 25 – 27, 2006)

- Awarded a certificate for participation in “An International Training Workshop on Nematode Identification” organized by Pakistan Society of Nematologists & NNRC at National Nematological Research Centre, University of Karachi, Karachi, Pakistan (October 22 – November 3, 2007)
- Awarded a shield for oral presentation entitled “*Trophic composition of free-living marine nematodes in Sandspit backwater mangrove areas, Karachi*” in Seminar on “*Transboundary coastal and marine protected areas with special priorities for spawning grounds*”, at Regent Plaza, Karachi, Pakistan, organized by Zoological Survey Department, Karachi, Pakistan (May 27-28, 2009)
- Awarded a certificate for oral presentation entitled “*Marine nematode fauna from mangrove areas of Pakistan*” in *Second National Phycological Conference entitled “Algae for Mankind”* at Department of Botany, University of Karachi, Karachi (October 15-17, 2012)
- Awarded shield from *Karachi University Officers welfare Association* at Arts Auditorium, University of Karachi, Karachi for 2011- 2013
- Awarded a shield on the occasion of 4th *International Conference of Pakistan Phytopathological Society entitled, “Climate Change and Plant Diseases; Challenges and Opportunities”*, at KIBGE, University of Karachi, Karachi, Pakistan (January 23-25, 2014)
- Awarded a shield on the occasion of a seminar and workshop entitled “*Invaders of Plant Roots, Plant Microbiome*”, at Jinnah University for Women, Karachi, Pakistan (April 18, 2015)
- Awarded a certificate for oral presentation entitled “*Marine benthic diversity: a comprehensive study*” in “*First International Conference on Life Sciences: Emerging Trend in Biological Sciences and Genomics*” at KIBGE, University of Karachi, Karachi, Pakistan (December 28 - 30, 2015)

PROJECTS COMPLETED AS PRINCIPAL INVESTIGATOR OR CO-INVESTIGATOR

- “*Marine nematodes as pollutant indicator*”, sponsored by Pakistan Science Foundation, Government of Pakistan (July, 2002- June, 2004) - PI
- “*Integrated Nematode Disease Management (INDM) in some cereals, fruits and vegetables of Pakistan*”, sponsored by Pakistan Agriculture Research Council (PARC), Agricultural Linkages Programme, Islamabad, (May, 2003-April, 2006) - CO-PI
- “*Studies on the marine nematodes fauna of Arabian Sea near coastal areas of Pakistan*”, sponsored by University of Karachi, (2003-2004) - PI
- “*Taxonomic studies of free-living marine nematodes of the orders Chromadorida, Enoplida and Monhysterida from Arabian Sea of Pakistan*”, sponsored by University of Karachi (2004-2005) - PI

- “Biodiversity, Systematics and Ecology of free-living marine nematodes of Arabian Sea from Pakistan”, sponsored by University of Karachi, (2005-2006) - PI
- “Biodiversity, Systematics and Ecology of free-living marine nematodes of Arabian Sea from Pakistan”, sponsored by University of Karachi, (2006-2007) - PI
- “Biodiversity, Systematics and Ecology of free-living marine nematodes of Arabian Sea from Pakistan”, sponsored by Pakistan Science Foundation, Government of Pakistan, (2008-2011) - PI

PROFESSIONAL RESPONSIBILITIES

- Teaching of MS and Ph. D students
- Supervision of research work of MS and Ph. D students
- Assessment of MS and Ph.D. theses and technical reports
- Organizing trainings / workshops / seminars
- Carrying out other responsibilities of the NNRC

PAPER PRESENTED AT NATIONAL AND INTERNATIONAL SEMINARS / SYMPOSIA / CONFERENCES / WORKSHOPS

- “Description of *Xiphinema karachiensis* sp. n. and morphometric data on *Enchodelus macrodorus* (de Man, 1880) Thorne, 1939 (Nematoda: Dorylaimida) from Pakistan” presented in *National Symposium on Status of Plant Pathology in Pakistan* at Karachi, Pakistan (December 3-5, 1991)
- “Studies on the Morphology of Adults and Juveniles of *Xiphinema basiri* Siddiqi, 1959” presented in *Forth National Conference of Plant Scientists* at Faisalabad, Pakistan (February 16 – 18, 1993)
- “Morphology and Taxonomy of Free-living Marine Nematode *Enoplolaimus karachiensis* n. sp. and Five Known Species (Nematoda: Enoplida; Monhysterida) from Arabian Sea” presented in *Seminar on Aquatic Biodiversity of Pakistan* at Karachi, Pakistan (March 20 – 22, 1999)
- “Biodiversity in Free-living Marine Nematodes Fauna of Arabian Sea from Coastline of Pakistan” presented in *National ONR Symposium on Arabian Sea as a Resource of Biological Diversity* at H.E.J. Research Institute of Chemistry, University of Karachi, Karachi, Pakistan (September 18 – 20, 2000).
- “Marine Nematode Fauna of Pakistan” presented in *National Symposium on Nematology*” at Karachi (January 7-9, 2002).

- “Marine Nematodes as Pollutant Indicators” presented in 8th National Meeting of Plant Scientists organized by Pakistan Botanical Society at the Department of Botany, University of Karachi, Karachi (February 24 – 28, 2003).
- “New Records of Free-living Marine Nematodes of Arabian Sea” presented in *Marine Environment Resource, Pollution & Management* at Dr. A.Q. Khan Institute of Biotechnology & Genetic Engineering (KIBGE), University of Karachi, Karachi, Pakistan (February 21 – 22, 2004)
- “Description of *Discolaimus* n. sp. (Nematoda: Discolaiminae) from Sindh, Pakistan” presented in *International Symposium of Biodiversity of nematode fauna in Pakistan* at NIPA, Karachi, Pakistan (May 17-19, 2004)
- “Nematodes in Marine Ecosystem” presented in *International Symposium on Biodiversity of Nematode Fauna in Pakistan* at NIPA, Karachi, Pakistan (May 17-19, 2004)
- “Marine Nematode Fauna of Arabian Gulf” presented in 5th Meeting of Phytopathological Society on *International Symposium on Recent trends in Plant Disease Management* at Dr. A.Q. Khan Institute of Biotechnology & Genetic Engineering (KIBGE), University of Karachi, Karachi, Pakistan (December 20-22, 2005)
- “Description of *Monhystera marina* n. sp. (Nematoda: Monhysterida) from Sandspit Backwater Mangrove Areas of Karachi” presented in 9th National Conference of Plant Scientists at University of Sindh, Jamshoro, Pakistan (February 13 -15, 2006)
- “Bio-diversity and Bio-systematic of Free-living Marine Nematode Fauna from Arabian Sea of Pakistan” presented in *Sixth National Nematological Conference in Pakistan and Workshop on Integrated Nematode Disease Management (INDM) in some cereals, fruit and vegetables of Pakistan* at Dr. A.Q. Khan Institute of Biotechnology & Genetic Engineering (KIBGE), University of Karachi, Karachi, Pakistan (April 25 – 27, 2006)
- “Free-living marine nematodes” presented in *International Training Workshop on Nematode Identification* at National Nematological Research Centre, University of Karachi, Karachi, Pakistan (October 22-November 3, 2007)
- “Marine Nematodes in the Arabian Sea and Their Role in the Ecosystem” presented in 35th All Pakistan Science Conference, 10th Nematological Event: “International Nematological Conference on Nematology in Pakistan” at LEJ, University of Karachi, Karachi, Pakistan (December 20 – 23, 2008)
- “Effect of Heavy Metals (Chromium and Lead) on Free-living Marine Nematodes (*Diplolaimella*, *Diplolaimoides*) at Bin Qasim Area of Pakistan” presented in *International Conference of Chemistry and its Role in Science (ICCRS-1)- 2011* at Jinnah University of Women, Karachi, Pakistan (January 3 - 5, 2011)

- “Biodiversity and Distribution of Free-living Marine Nematodes from Arabian Sea” abstracted in *8th National Conference of Pakistan on Challenges and options for plant health management* at Department of Plant Pathology, Faculty of Agriculture, University of Agriculture, Faisalabad (November 28 -29, 2011).
- “Marine Nematode Fauna from Mangrove Areas of Pakistan” presented in *Second National Phycological Conference* on “Älgae for Mankind” at Department of Botany, University of Karachi, Karachi, Pakistan (October 15 - 17, 2012)
- “Analysis of Pollutant from the Areas of Port Bin Qasim to Gwadar” presented in *1st International Conference on Environmental Horizons (ICEH-2013)*, at Department of Chemistry, University of Karachi, Karachi, Pakistan (2013)
- “Marine Environmental Assessment By Biomonitoring Microorganisms” presented in *3rd International Conference of Pakistan Phytopathological Society and 13th Nematological Event on Prospective of Nematology in Pakistan* at Sheikh Zaid Research Institute University of Karachi, Karachi, Pakistan (23-25 January, 2014)
- “Role of Marine Nematodes in Environmental Monitoring Assessment” presented in *35th Pakistan Congress of Zoology*, at Sheikh Zaid Research Institute, University of Karachi, Karachi, Pakistan (March 3 - 5, 2015)
- “Root-knot Nematodes: The Major Pests of Vegetable Crops” presented in a seminar and workshop on *Invaders of Plant Roots: Plant Microbiome*, at Jinnah University for Women, Karachi, Pakistan (April 18, 2015)
- “Marine Benthic Diversity: A Comprehensive Study” presented in *First International Conference on Life Sciences: Emerging Trend in Biological Sciences and Genomics* at Dr. A.Q. Khan Institute of Biotechnology & Genetic Engineering (KIBGE), University of Karachi, Karachi, Pakistan (December 28 – 30, 2015)

SEMINARS/CONFERENCES/WORKSHOPS ATTENDED

- “National Symposium on Status of Plant Pathology in Pakistan” at Karachi, Pakistan (December 3 – 5, 1991)
- “Second International Meeting on Plant Nematology” organized by Pakistan Society of Nematologists & National Nematological Research Centre at Taj Mahal Hotel, Karachi, Pakistan (November 22 – 26, 1992)
- “Forth National Conference of Plant Scientists” organized by Pakistan Botanical Society at Ayub Agriculture Research Institute, Faisalabad, Pakistan (February 16 – 18, 1993)
- “Seminar on Aquatic Biodiversity of Pakistan” organized by Marine Reference Collection and Resource Centre and Department of Zoology, University of Karachi, Karachi, Pakistan (March 20 – 22, 1999)

- “Symposium on Arabian Sea as a Resource of Biological Diversity” organized by H.E.J. Research Institute of Chemistry, University of Karachi, Karachi, Pakistan (September 18 – 20, 2000).
- “National Symposium on Nematology” organized by Pakistan Society of Nematologists & National Nematological Research Centre at NIPA, Karachi, Pakistan (January 7 – 9, 2002)
- “8th National Meeting of Plant Scientists” organized by Pakistan Botanical Society, Department of Botany, University of Karachi, Karachi, Pakistan (February 24-28, 2003)
- “Marine Environment Resource, Pollution & Management” organized by Centre of Excellence in Marine Biology, University of Karachi & the British Council, Karachi at Dr. A.Q. Khan Institute of Biotechnology & Genetic Engineering (KIBGE), University of Karachi, Karachi, Pakistan (February 21 – 22, 2004)
- “International Symposium on Biodiversity of Nematode Fauna in Pakistan” organized by Pakistan Society of Nematologists & National Nematological Research Centre at NIPA Karachi, Pakistan (May 17 – 19, 2004)
- “Workshop on PCR application in Research and Diagnosis” jointly organized by Department of Biochemistry, University of Karachi & PSBMB – Rahila Research & Reference Laboratories, at Karachi, Pakistan (October 16-18, 2004).
- “Launching Ceremony of the Journal of Basic & Applied Sciences” organized by the Members of the Educational Forum, Department of Pharmacology & Department of Zoology, University of Karachi at University of Karachi, Karachi, Pakistan (March 8, 2005).
- “8th Biennial National Conference of Pakistan Society for Biochemistry and Molecular Biology, on Emerging Trends in Biochemistry and Molecular Biology”, at Department of Biochemistry, University of Karachi, Karachi, Pakistan (March 7 -9, 2005).
- “Three day training Workshop on Mud Crab (Genus *Scylla*)” at Dr. A.Q. Khan Institute of Biotechnology and Genetic Engineering (KIBGE), University of Karachi, Karachi, Pakistan (July 19, 2005).
- “International Conference on Environmental Horizons” at International Centre for Chemical Sciences, H.E.J. Research Institute of Chemistry, University of Karachi, Karachi, Pakistan (December 19 -21, 2005).
- “5th Meeting of Phytopathological Society on International Symposium on Recent Trends in Plant Disease Management” organized by Department of Botany, University of Karachi, at Dr. A.Q. Khan Institute of Biotechnology & Genetic Engineering (KIBGE), University of Karachi, Karachi, Pakistan (December 20-22, 2005)

- “10th International Symposium on Natural Product Chemistry” at International Centre for Chemical Sciences, H.E.J. Research Institute of Chemistry, University of Karachi, Karachi, Pakistan (January 5, 2006)
- “9th National Conference of Plant Scientists” organized by the Pakistan Botanical Society & the Institute of Botany, University of Sindh, Jamshoro, at Jamshoro, Sindh, Pakistan (February 13 – 15, 2006)
- “6th National Nematological Conference in Pakistan and Workshop on Integrated Nematode Disease Management (INDM) in Some Cereals, Fruit and Vegetables of Pakistan” organized by Pakistan Society of Nematologists & National Nematological Research Centre at Dr. A.Q. Khan Institute of Biotechnology & Genetic Engineering (KIBGE), University of Karachi, Karachi, Pakistan (April 25 – 27, 2006)
- “Merck Water Testing Laboratory”, inaugural ceremony, established at Institute of Environmental Studies, University of Karachi, Karachi, Pakistan (March 28, 2007).
- “Agricultural Development in the Desert Areas - Egypt as a case study”, a lecture by Dr. Hassan El-Shear, organized by Prof. Dr. M. Ajmal Khan, Department of Botany, University of Karachi, at the Arts Auditorium, University of Karachi, Karachi, Pakistan (March 31, 2007).
- “Human Activities and Marine Environment”, seminar organized by Prof. Dr. Javeed Mustaqim, Director, Centre of Excellence in Marine Biology (CEMB), University of Karachi in connection of Earth Day celebrations, at Regent Plaza Hotel, Karachi, Pakistan (April 22, 2007)
- “Empowering the R & D, Industrial and SME Sector with S & T Information”, one day seminar organized by Pakistan Science & Technology Information Centre (PASTIC), Pakistan Science Foundation / Ministry of Science and Technology in collaboration with Federation of the Pakistan Chamber of Commerce and Industry (FPCCI) at Karachi, Pakistan (May 19, 2007)
- “Bio-safety, Health and Environment: A New Frontier”, a HEC workshop on World Environment Day at Institute of Environmental Studies, University of Karachi, Karachi (June 5, 2007)
- “Sustainable Fisheries in Pakistan” a seminar organized by Centre of Excellence in Marine Biology, University of Karachi at Regent Plaza Hotel, Karachi, Pakistan (June 25, 2007)
- “An International Training Workshop on Nematode Identification” organized by Pakistan Society of Nematologists & NNRC at National Nematological Research Centre, University of Karachi, Karachi, Pakistan (October 22 – November 3, 2007)
- “35th All Pakistan Science Conference on Genomics for Health and Prosperity, 10th Nematological Event: “International Nematological Conference on Nematology in Pakistan” organized by University of Karachi, Pakistan Association for the Advancement of Science

and Pakistan Society of Microbiology at LEJ, University of Karachi, Karachi, Pakistan (December 20 – 23, 2008)

- “Seminar on Transboundary Coastal and Marine Protected Areas with Special Priorities for Spawning Ground (Pakistan)” organized by Zoological Survey Department, Karachi, at Regent Plaza, Karachi, Pakistan (May 27 - 28, 2009)
- “11th Nematological Event: One-day Seminar on Molecular Techniques Used in Nematology with Emphasis on Genetic Diversity of Wheat Germ Plasm” organized by Pakistan Society of Nematologists & National Nematological Research Centre at Dr. A.Q. Khan Institute of Biotechnology & Genetic Engineering (KIBGE), University of Karachi, Karachi, Pakistan (April 17, 2010)
- “Tribute to the Father Of Green Revolution Nobel Peace Laureate, Prof. Dr. Norman Borlaug and Launching of ISAAA Brief 41 / Press Conference” organized by Pakistan Biotechnology Information Center (PABIC) at the Latif Ebrahim Jamal National Science Information Center, International Center for Chemical and Biological Sciences, University of Karachi, Karachi, Pakistan (June 10, 2010)
- 12th International Symposium on Natural Product Chemistry at H. E.J Research Institute of Chemistry, International Centre for Chemical and Biological Sciences, University of Karachi, Karachi, Pakistan (November 22-25, 2010)
- “Marine Biodiversity, Issues and Remedies” at Center of Excellence in Marine Biology, University of Karachi, Karachi, Pakistan (December 21- 22, 2010)
- “International Conference of Chemistry and its Role in Science (ICCRS-1) - 2011, organized by Department of Chemistry, Jinnah University for Women, Karachi, Pakistan (January 3 - 5, 2011)
- 8th National Conference of Pakistan on Challenges and options for plant health management at Department of Plant Pathology, Faculty of Agriculture, University of Agriculture, Faisalabad (November 28 -29, 2011).
- ‘12th Nematological Event: International Workshop on Biological Control of Root-knot Nematode in Vegetables by EPNs” organized by Pakistan Society of Nematologists & National Nematological Research Centre at Dr. A.Q. Khan Institute of Biotechnology & Genetic Engineering (KIBGE), University of Karachi, Karachi, Pakistan (24 - 26 May, 2012)
- “Second National Phycological Conference on Älgae for Mankind” organized by Department of Botany, University of Karachi, Karachi, Pakistan (October 15 - 17, 2012)
- “9th Biennial International Conference of Pakistan for Microbiology”, organized by the Department of Microbiology, University of Karachi, Karachi, Pakistan (January 28-31, 2013)

- “3rd International Conference of Pakistan Phytopathological Society on Climate Change and Plant Diseases, Challenges and Opportunities” organized by Pakistan Phytopathological Society and Department of Agriculture and Agribusiness and Management at Sheikh Zaid Research Institute, University of Karachi, Karachi, Pakistan (January 23-25, 2014)
- “13th Nematological Event on Prospective of Nematology in Pakistan” organized by Pakistan Society of Nematologists & National Nematological Research Centre at Sheikh Zaid Research Institute, University of Karachi, Karachi, Pakistan (23 - 25 January, 2014)
- “35th Pakistan Congress of Zoology” jointly organized by the Pakistan Zoological Society of Pakistan and Center of Excellence of Marine Biology, University of Karachi, Karachi at Sheikh Zaid Research Institute, University of Karachi, Karachi, Pakistan (March 3 - 5, 2015)
- “Invaders of Plant Roots: Plant Microbiome”, a seminar and workshop organized by Department of Botany, Jinnah University for Women, Karachi, Pakistan (April 18, 2015)
- “First International Conference of Life Sciences on Emerging Trend in Biological Sciences and Genomics”, organized by M.A.H. Qadri Biological Research Center, University of Karachi and Dr. A.Q. Khan Institute of Biotechnology & Genetic Engineering (KIBGE), University of Karachi, Karachi, Pakistan (December 28 - 30, 2015)
- “14th National and 5th International Conference on Climate Change and Phytodiversity: Challenges and Opportunities”, organized by Pakistan Botanical Society at Sheikh Zaid Islamic Centre, University of Karachi, Karachi (January 15, 2016).

MEETINGS ATTENDED

- “National Symposium on Status of Plant Pathology in Pakistan”, at Karachi (December 3 – 5, 1991)
- “Second International Meeting on Plant Nematology”, at Karachi (November 22 – 26, 1992)
- “Fourth National Conference of Plant Scientists”, at Faisalabad (February 16 – 18, 1993)
- “National ONR Symposium on Arabian Sea as a resource of biological diversity” at Karachi, (2000)
- “National Symposium on Nematology” at Karachi (January 7-9, 2002)
- “8th National Meeting of Plant Scientists”, at Department of Botany, University of Karachi, Karachi (February 24 – 28, 2003).
- “Marine Environment Resource, Pollution & Management”, at Dr. A.Q. Khan Institute of Biotechnology & Genetic Engineering (KIBGE), University of Karachi, Karachi (February 21 – 22, 2004).

- “International Symposium on Biodiversity of Nematode Fauna in Pakistan” at Dr. A.Q. Khan Institute of Biotechnology & Genetic Engineering (KIBGE), University of Karachi, Karachi (May 17 – 19, 2004).
- “Symposium on Biochemistry in Post Genomic Era”, jointly organized by PSBMB & Department of Biochemistry, University of Karachi at University of Karachi, Karachi (July 17, 2004).
- “Workshop on PCR application in Research and Diagnosis” jointly organized by Department of Biochemistry, University of Karachi & PSBMB – Rahila Research & Reference Laboratories, at Karachi (October 16 – 18, 2004).
- “8th Biennial National Conference of Pakistan Society for Biochemistry and Molecular Biology, on Emerging Trends in Biochemistry and Molecular Biology”, at Department of Biochemistry, University of Karachi, Karachi (March 7 – 9, 2005).
- “Three day training Workshop on Mud Crab (Genus *Scylla*)” at A.Q. Khan Institute of Biotechnology and Genetic Engineering, University of Karachi, Karachi (July 19, 2005).
- “HEC-KU Health Awareness Seminar: How do we spread and control Gastro-intestinal Infections” at Arts Auditorium, University of Karachi, Karachi (September 21, 2005).
- “International Conference on Environmental Horizons”, at International Centre for Chemical Sciences, H.E.J. Research Institute of Chemistry, University of Karachi, Karachi (December 19 – 21, 2005).
- “5th Meeting of Pakistan Phytopathological Society & International Symposium on Plant Disease Management” at University of Karachi, Karachi (December 20 – 22, 2005).
- “9th National Conference of Plant Scientists” at the Institute of Botany, University of Sindh, Jamshoro, Sindh (February 13 – 15, 2006).
- “Contemporary Environmental Issues and Rural Communities”, at A.Q. Khan Auditorium, KIBGE, University of Karachi, Karachi (March 9, 2006).
- “6th National Nematological Conference in Pakistan” at A.Q. Khan Auditorium, KIBGE, University of Karachi, Karachi (April 25 – 27, 2006).
- “The 1st National Workshop / Seminar on Global Recognition of Patent System” organized by Patent Advisory Cell, PCSIR Laboratories Complex, Karachi, at Institute of Industrial and Electronics Engineering (IIEE) (December 13 – 14, 2006).
- A lecture on “Agricultural Development in the Desert Areas – Egypt as a case study” was delivered by Dr. Hassan El-Shear, organized by Prof. Dr. M. Ajmal Khan, Department of Botany, University of Karachi, at the Arts Auditorium, University of Karachi, Karachi (March 31, 2007).

- A seminar on “Human Activities and Marine Environment” organized by Prof. Dr. Javeed Mustaqim, Director, Centre of Excellence in Marine Biology (CEMB), University of Karachi in connection of Earth Day celebrations, at Regent Plaza Hotel, Karachi (April 22, 2007).
- One day seminar on “Empowering the R & D, Industrial and SME Sector with S & T Information” organized by Pakistan Science & Technology Information Centre (PASTIC), Pakistan Science Foundation / Ministry of Science and Technology in collaboration with Federation of the Pakistan Chamber of Commerce and Industry (FPCCI) at Karachi (May 19, 2007).
- “International Training Workshop on Nematode Identification”, at NNRC, University of Karachi (October 22 – November 3, 2007).
- 35th All Pakistan Science Conference, “10th Nematological Event: International Conference on Nematology in Pakistan”, at University of Karachi (December 20-23, 2008).
- Transboundary Coastal and marine protected areas with special priorities for spawning ground (Pakistan)”, May 27-28, 2009 at Regent Plaza, Karachi, Pakistan. Zoological Survey Dept., Karachi,
- 11th Nematological Event: One-Day Seminar on “Molecular techniques used in Nematology with emphasis on genetic diversity of wheat germ plasm” (April 17, 2010).
- Tribute to the “Father of green revolution Nobel peace laureate Prof. Dr. Norman Borlaug and launching of ISAAA Brief 41 / Press Conference”, organized by Pakistan Biotechnology Information Center (PABIC) at the Latif Ebrahim Jamal National Science Information Center, International Center for Chemical and Biological Sciences, University of Karachi, Karachi-75270 (June 10, 2010).
- “Marine Biodiversity, Issues and Remedies” at Center of Excellence in Marine Biology, University of Karachi (December 21 & 22, 2010)
- “International Conference of Chemistry and its Role in Science (ICCRS~1), Department of Chemistry, Jinnah University for Women, Karachi (January 3 - 5, 2011)
- 12th Nematological Event: International workshop on biological control of root-knot nematode in vegetables by EPNs at Dr. A.Q. Khan Institute of Biotechnology & Genetic Engineering (KIBGE), University of Karachi, Karachi (24 - 26 May, 2012)
- Second National Phycological Conference on “Älgae for Mankind” at Department of Botany, University of Karachi, Karachi (October 15 - 17, 2012)
- 13th Nematological Event: Prospective of Nematology in Pakistan at Sheikh Zaid Research Institute, University of Karachi, Karachi (23 - 25 January, 2014)

- 3rd International Conference of Pakistan Phytopathological Society on Climate change and plant diseases, challenges and opportunities at Sheikh Zaid Research Institute, University of Karachi, Karachi, Pakistan (January 23 – 25, 2014)
- 35th Pakistan Congress of Zoology, at Sheikh Zaid Research Institute, University of Karachi, Karachi (March 3 - 5, 2015)
- “Invaders of Plant Roots, Plant Microbiome”, a seminar and workshop at Jinnah University for Women (April 18, 2015)
- “Emerging Trend in Biological Sciences and Genomics”, the First International Conference on Life Sciences at Dr. A.Q. Khan Institute of Biotechnology & Genetic Engineering (KIBGE), University of Karachi, Karachi (December 28 - 30, 2015)
- 14th National and 5th International Conference on Climate Change and Phytodiversity: Challenges and Opportunities organized by Pakistan Botanical Society at Sheikh Zaid Islamic Centre, University of Karachi, Karachi (January 15, 2016).

PROFESSIONAL MEMBERSHIPS

- Pakistan Society of Nematologists
- Pakistan Botanical Society
- Pakistan Society of Phytopathology
- All Pakistan Association of Oceaners (APNAO)

RESEARCH PUBLICATIONS

Books:

International

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