

Plant Parasitic Nematodes as Pests of Crops



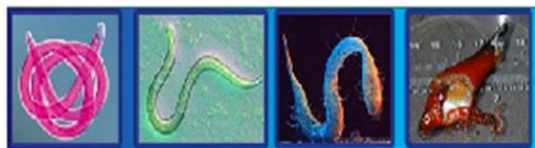
Insect Parasitic Nematodes EPN as Bio-pesticide



Free-living Soil Nematodes as Bio-fertilizer



Free-living Marine Nematodes as Bio-indicator



PAKISTAN SOCIETY OF
NEMATOLOGISTS

<http://www.pjn.com.pk>



ISO CERTIFIED
NATIONAL NEMATOLOGICAL
RESEARCH CENTRE, UoK



Local Organizing Committee

- Prof. Dr. Shahina Fayyaz
- Dr. Nasira Kazi
- Dr. Firoza Kazi
- Dr. Tabassum Ara Khanum
- Dr. Salma Javed
- Dr. Erum Iqbal

Travel & Hospitality

The ECOSF will sponsor all the accepted participants from ECO member Countries except for Pakistan for their air travel. PSN/NNRC/University of Karachi would arrange the local hospitality including; local transport, accommodation and meals for all participants.

Closing date of Applications: All applicants should submit application on given form with brief bio-data via email (nnrc@uok.edu.pk; psn.nematologists@gmail.com) before 15th November, 2017. NNRC will inform the successful applicants for the training workshop.

Office Address for correspondence

National Nematological Research Centre (NNRC),
University of Karachi, Karachi-75270, Pakistan
Email: nnrc@uok.edu.pk; psn.nematologists@gmail.com

5TH INTERNATIONAL
WORKSHOP
FOR CAPACITY BUILDING IN
NEMATOLOGY

February 12-22, 2018

At
National Nematological Research Centre,
University of Karachi, Karachi, Pakistan



Jointly Organized by
Pakistan Society of Nematologists
National Nematological Research Centre
University of Karachi
and
ECO Science Foundation



Supported by
Higher Education Commission
Pakistan Science Foundation



PAKISTAN SOCIETY OF NEMATOLOGISTS: Pakistan Society of Nematologists (PSN) formed in 1980 by untiring efforts of Dr. Maqbool to advance the science of nematology in both its fundamental and economic aspect. The Society acts as an agency for the exchange of information, holds regular meetings, national and international workshops and conferences to promote and extend knowledge in all phases of nematology. PSN has been publishing biannual scientific journal, *Pakistan Journal of Nematology* and *PSN Newsletter* since 1983 and 2002, respectively covering the significant research in fundamental and applied nematology within and outside the country.

NATIONAL NEMATOLOGICAL RESEARCH CENTRE: National Nematological Research Centre (NNRC), University of Karachi, is a leading research and educational institute dedicated to the generation, acquisition of knowledge about Nematology in Pakistan. NNRC was established in 1974 by Dr. M.A. Maqbool, the founding father, that now has come to symbolize as an efficient, dynamic and forward looking research centre in Pakistan. NNRC is the only research as well as academic centre, which generate highly trained human resource through M. Phil/ Ph. D. degree program. NNRC has well equipped laboratories for the work on fundamental and applied research on plant parasitic, free-living soil, fresh water, marine and entomopathogenic nematodes. NNRC also has three large modernize equipped research laboratories for advanced molecular taxonomy of all groups of nematodes, mass production of EPNs and formulation of these bio-control agents as bio-pesticides and it owns many national and international patents. On the basis of all the endeavours NNRC has get the ISO 9001-2015 Certification.

ECONOMIC COOPERATION ORGANIZATION SCIENCE FOUNDATION: ECO Science Foundation (ECOSF) is based in Islamabad-Pakistan with the 10 member countries of ECO include; Afghanistan, Azerbaijan,

Iran, Kazakhstan, Kyrgyzstan, Pakistan, Tajikistan, Turkey, Turkmenistan and Uzbekistan. ECOSF has the mandate of promoting and funding Science, Technology and Innovation and research for socioeconomic development as well as Science Education at school level, following the Inquiry Based Science Education methodology. Our collaborators/partners include; UNESCO, ISTIC Malaysia, Inter-Academy Partnership Science Education Programme (IAP SEP -a global network of over 130 National Academies of Science and Engineering), *La main a la pate* Foundation of France, KISTEP Korea, IPBES, the Turkic World Educational and Scientific Cooperation Organization (TWESCO) based in Astana-Kazakhstan, and the Islamic Development Bank.

5th INTERNATIONAL WORKSHOP: Climate change has impacts on ecosystems of land, desert, terrestrial and marine and hence will influence future biological diversity of the globe. Nematodes are highly diversified and adaptable in nature. The theme behind is to highlight the stress bearing behavior of nematodes and to discern the adaptable activities of this creature in globally changing environment. Pakistan Society of Nematologists (PSN) and National Nematological Research Centre, University of Karachi, Karachi (NNRC) have been holding national and international capacity building workshops in Nematology ever since their establishment. PSN, NNRC and ECOSF are organizing 5th International workshop for Capacity Building in Nematology from 12-22 February, 2018 for researchers and young scientists of ECO countries at NNRC, Karachi.

Higher Education Commission, Pakistan Sciences Foundation and Pakistan Agricultural Research Council are expected to support and co-sponsor the training workshop. Aim of the training workshop is to build the capacity of young researchers of neighboring countries mainly members of Economic Cooperation Organization who are directly associated with agricultural research. A senior Nematologist / expert from each ECO country will also be invited to share the national status and progress of the country.

Objectives

- To develop capacity in the field of Nematological research and management.
- To identify deficiencies in present methods of dissemination of crop protection information, and opportunities arising from new communication technologies.
- To develop collaboration among ECO member countries in the field of Nematology with focus on crop production.
- To emphasize the importance of phytonematodes problem in the context of current and future global challenges.

Nominations: A total of 18 participants from ECO countries (Islamic Republic of Afghanistan, Republic of Azerbaijan, Islamic Republic of Iran, Republic of Kazakhstan, Kyrgyz Republic, Republic of Tajikistan, Republic of Turkey, Turkmenistan and Republic of Uzbekistan) will be selected to attend this training workshop with 10 participants from Pakistan. Participants should be young researchers/scientists and/or Ph. D. students working on any aspect of Nematology. Duly completed nomination forms endorsed by the Head of Department/Institute/Organization with a clear indication that the candidate would continue in the field of Nematology/Plant Protection will only be considered.

Contents of the Workshop: The scientists will be invited to present their country reports in one day seminar on Nematology and its development in their countries.

Workshop will include:

- Series of lectures and lab exercises.
- Sampling techniques and strategies.
- Processing analysis of sample.
- Morphological identification.
- Molecular identification with phylogenetic characterization.
- Sequence alignment and deposition in NCBI.
- Biocontrol potential of specific EPNs.
- *In vitro* culturing of EPNs.
- *In vivo* culturing of EPNs.