REPORT

ON

CRITICAL THINKING AND SCIENTIFIC WRITING

SEPTEMBER 04, 2018



OFFICE OF RESEARCH, INNOVATION AND COMMERCIALTION

MUHAMMAD NAWAZ SHAREEF UNIVERSITY OF AGRICULTURE MULTAN

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Organizer

The workshop was organised by ORIC, MNS-university of Agriculture, Multan. Dr. Fahim Nawaz (Assistant Prof. Agronomy) was the focal person of the Workshop and Muhammad Majid Ali (Student, M.Sc. Plant Breeding and Genetics) assisted him

Workshop Plan

Title: Critical Thinking and Scientific Writing
Target Audience: Nominated faculty members/Postgraduates of MNS-UAM
Length: 06 hours
Group Size: 25-30 students
Workshop Goal: Participants will gain skill and knowledge to be effective research scientists
Learning Objectives:
Participants will:

- Be able to apply basic concepts in research
- Learn key principles about scientific working and publishing
- Be able to plan quality research training
- Discover best practices in research and scientific working

Description:

Publishing a high-impact paper or being awarded a big research grant are career makers for a scientist. Writing high-impact science requires polish and politics. So your success will depend not just on your ability to write clearly and succinctly, but also your ability to identify and communicate with confidence the core messages of your research. In this workshop, we will learn effective scientific working and publishing skills and then take what we learned to prepare an actual scientific manuscript. You will read and edit both published and unpublished scientific manuscripts, and you will prepare your own scientific manuscript.

Time	Activity	Description
9:00-9:15	Welcome and introduction to the workshop	Quick needs assessment, today agenda and objectives
09:15-09:45	Structure of articles I	Title & Abstract: Formation, content, exercises
9:45-10:30	Structure of articles II	Keywords and authorship: hints and risks exercise
10:30-10:45	Break	
10:45-11:15	Structure of articles III	Introduction: function and content
11:15-12:00	Structure of articles IV	Results: function and content, examples
12:00-1:00	Lunch	
1:15-2:00	Structure of articles V	Discussion and Conclusions I : function and content
2:00-2:30	Structure of articles VI	Discussion and Conclusions I: function and content

2:30-2:45	How to find a suitable journal	Tools available in internet, exercises
2:45-3:00	Predatory journals	How to differentiate between true and predatory journals
3:00	Open discussion	

Nominated Participants

Nominations from different institutes/organization were received to attend the workshop. Apart from MNS-UAM, nominees from Nishtar Medical University, Multan, Women University, Multan, MNS-UET, Multan and Cotton Research Institute, Multan attended the workshop. Postgraduate Students of MNS-UAM also participated in the workshop.

Department/Institute	Nomination	Designation
Horticulture	Dr. Muhammad Amin	Assistant Professor
	Dr. Gulzar Akhtar	Assistant Professor
Entomology / Plant Pathology	Dr. Unser Naeem Ullah	Assistant Professor
	Mrs. Hafiza Tahira Gul	Lecturer
	Dr. Muhammad Nadeem	Assistant Professor
	Mr. Asif Mehmood	
Agri-Economics / CS/IT	Dr. Aamir	Assistant Professor
	Dr. Mudassir Yasin	Assistant Professor
	Mr. Arqam Iqbal	Lecturer
IPBB	Mr. Farrukh	PhD student
	Sabah Maryam	PhD student
Food Science and Technology	Dr. Muhammad Shahbaz	Assistant Professor
	Dr. Ambreen Naz	Assistant Professor
	Dr. Shamas Murtaza	Lecturer
Soil & Environmental Science	Dr. Muhammad Baqir	Assistant Professor
	Mr. Muhammad Irfan	PhD student
	Mr. Muhammad Ashfaq	PhD student
Agronomy	Mr. Nabeel Ikram	Lecturer
	Muhammad Saleem	PhD student

Cotton Research Institute	Syeda Fiza Nayab	Assistant Research Officer (PB&G)
	Sadia Kanwal	Assistant Research Officer (PB&G)
	Dr. Rafiq Shahid	Assistant Entomologist
Nishtar Medical University, Multan	Dr. Khalid Usman	Professor of Pathology
	Dr. Nasreen Siddique	Professor of Community Medicine
	Dr. Saima Ashraf	Assistant Professor Obst. & Gynae
	Mr. Muhammad Sohail	Incharge PMRC
The Women University, Multan	Sumaira Nadeem	Lecturer
	Zermina Rashid	Lecturer
	Uzma Sahar	Lecturer

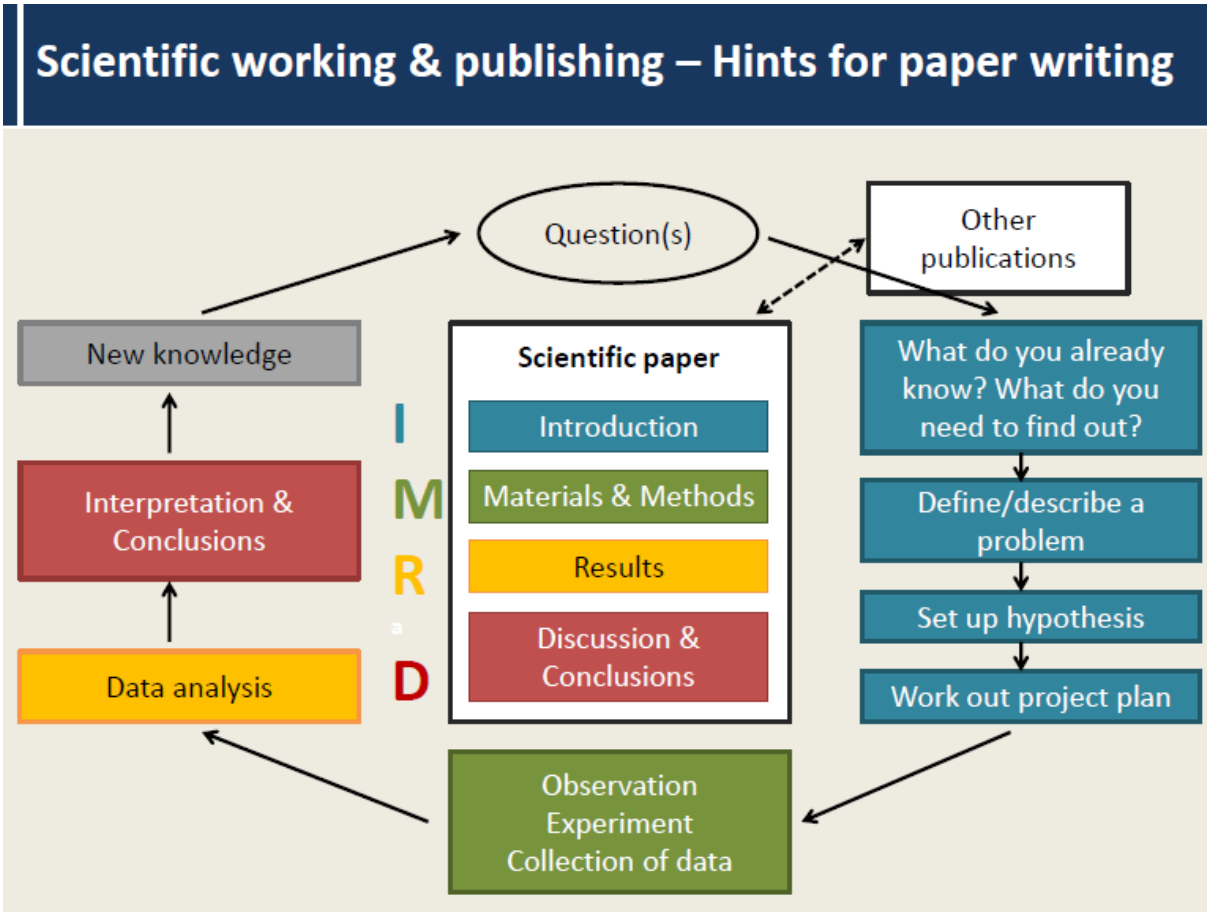
Inaugural Session

Prof Dr. Asif Ali, Vice Chancellor of Muhammad Nawaz Shareef University of Agriculture, Multan inaugurated the workshop with his welcome address. He welcomed all the participants said that Critical Thinking and Scientific Writing is compulsory to conduct research in multi dynamic ways. Publication of research work in good and standard class journal is required some techniques which must be known to every researcher of any discipline. Success of publication is depend on the presentation of the data which is arranged by the researcher.
Vice Chancellor also introduced the speaker to the audience and said that, Dr. Martin is a good trainer for Critical Thinking and Scientific Writing. He also thanks to all participant and speaker of the day.



Technical Session 1

In technical session, Dr. Martin Wiehle introduced its institute *i.e.* KASSEL University, Germany and said that , university working for the quality education.
In first session, the importance of workshop was explained by Dr. Martin who highlighted the common mistakes made by the authors in their scientific publications. He also described the importance of citation and how one could find a reliable source to get scientific information. Before concluding this session, Dr. Martin explained the need for proof reading and how it improves the overall quality of the manuscript.





Technical Session II

After lunch break session started again and Dr. Martin described the process of scientific publication. He explained the procedure to find a good journal and highlighted the need of publishing in an impact factor journal. He also explained the difference between imoact factor and h-index and described how an author can better respond to the comments of reviewers or editor. In the end he also talked about review process and discussed the methods for proof reading



Concluding Session

Prof. Dr. Asif Ali Khan, Vice Chancellor MNS-University of Agriculture concluded the workshop and thanked all the participants for their active participation. He especially thanked Dr. Martin for visiting MNS-UAM and conducting a workshop on scientific writing. Dr.

Martin thanked Prof. Dr. Asif Ali for the cooperation and making his stay comfortable in Multan. At the end, Prof. Dr. Asif Ali presented shield to Dr. Martin Wiehle and distributed certificates among the the participants of the workshop.





