



MASTERING META-ANALYSIS UNLEASHING THE POWER OF RESEARCH SYNTHESIS

TOTAL CONTACT HOURS 24

START FROM 
15-AUG-2023



**NUST CERTIFIED
COURSE**

COURSE DESCRIPTION:

This comprehensive 24-hour course is designed to provide participants with in-depth knowledge and practical skills in meta-analysis and selecting the right journal for their research. Participants will learn the fundamentals of meta-analysis, including its aims and scope, as well as the process of identifying, evaluating, and synthesizing research studies. Additionally, they will gain insights into the criteria and considerations for choosing an appropriate journal to publish their findings. The course includes a mix of theoretical concepts, practical exercises, and discussions to enhance participants' understanding and application of meta-analysis and journal selection.

COURSE OUTLINE

- INTRODUCTION TO META-ANALYSIS
- IDENTIFYING AND COLLECTING STUDIES
- QUALITY ASSESSMENT AND RISK OF BIAS
- STATISTICAL METHODS IN META-ANALYSIS
- INTERPRETATION AND REPORTING OF RESULTS
- SELECTING THE RIGHT JOURNAL
- MANUSCRIPT PREPARATION AND SUBMISSION
- COMMUNICATING META-ANALYSIS FINDINGS

LEARNING INVESTMENT 
RS: 20,000/- 



Scan For Registration

 PNS JAUHAR, Habib Ibrahim Rehmatullah Road, Karachi,
Pakistan

NUST KARACHI CAMPUS



WORKSHOP CONTENTS:

NUST CERTIFIED COURSE

- DAY 1**
INTRODUCTION TO META-ANALYSIS
 1. Definition, aims, and scope of meta-analysis
 2. Advantages and limitations
 3. Types of research questions suitable for meta-analysis
 4. Target participants: Researchers and academics interested in conducting meta-analyses
- DAY 2**
IDENTIFYING AND COLLECTING STUDIES
 1. Identifying and Collecting Studies
 2. Literature search strategies
 3. Study selection criteria and inclusion/exclusion process
 4. Handling missing data and publication bias
 5. Exercise: Identifying relevant studies
- DAY 3**
QUALITY ASSESSMENT AND RISK OF BIAS
 1. Assessing study quality and risk of bias
 2. Tools for quality assessment
 3. Exercise: Assessing study quality
- DAY 4**
STATISTICAL METHODS IN META-ANALYSIS
 1. Statistical Methods in Meta-Analysis
 2. Effect size estimation
 3. Fixed-effect and random-effects models
 4. Heterogeneity and subgroup analysis
 5. Exercise: Calculating effect sizes
- DAY 5**
INTERPRETATION AND REPORTING OF RESULTS
 1. Interpreting meta-analysis results
 2. Forest plots and funnel plots
 3. Publication bias and sensitivity analysis
 4. Exercise: Interpreting meta-analysis results

- DAY 6**
SELECTING THE RIGHT JOURNAL
 1. Criteria for journal selection
 2. Journal impact factor and citation metrics
 3. Understanding journal aims and scope
 4. Exercise: Journal selection case studies
- DAY 7**
MANUSCRIPT PREPARATION AND SUBMISSION
 1. Structure and components of a research manuscript
 2. Writing guidelines and formatting
 3. Responding to reviewer comments
 4. Exercise: Manuscript preparation
- DAY 8**
COMMUNICATING META-ANALYSIS FINDINGS
 1. Oral presentations and visual aids
 2. Effective data visualization
 3. Tips for presenting meta-analysis findings

ABOUT THE TRAINER:
 Prof Dr. Liaquat Raza, is a Passionate Researcher, Philanthropist, and Innovator offering over 20 years of research, teaching, and leadership experience in the field of pharmacology and neurosciences. With a strong academic background and international exposure, I have garnered expertise in drug discovery, medicinal natural products, epilepsy, Parkinson's disease, pain management, depression, oncology, and the implementation of AI in healthcare.

Education: PhD in Medical Neuroscience, Charite University of Medicine, Germany Post-Doctoral Fellowship in Molecular Neurophysiology, Lund University Hospital, Sweden Various Neuroscience Fellowships from Japan, Singapore, UAE, Spain, Australia.

Academic and Professional Achievements: Associate Editor, BMC Neuroscience Associate Editor, BMC Pharmacology & Toxicology Former Chief Editor, RADS Journal of Pharmacology and Pharmaceutical Sciences Head and Dean at various universities Professor of Pharmacology and Director of Academics at the City Institute of Health Sciences, Karachi, Pakistan Neurorehab Consultant Project Director at Martin Dow Pharmaceuticals Guest Scientist, Lund University, Sweden Junior Research Fellow, HEJ, ICCBS, University of Karachi

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