

Workshop on Clinical Research in Precision Medicine, Rare Diseases & Pharmacogenomics

8th - 11th December, 2025



Qatar University
Doha, Qatar



AGENDA

Day 1: Foundations of Clinical Research

Time	Session Title	Speaker/Facilitator
08:30 - 9:00	Opening & Welcome	Workshop Chairs & Organizers
09:00 - 09:45	Clinical Research 101: Concepts & Phases – A Clinician Navigating the Journey into Research	Gabriela Rosa
09:45 - 10:30	Study Designs & Methodological Rigor – Building the Foundations of Causal Inference	Chris Polanco
10:30 - 10:45	Coffee Break	
10:45 - 11:30	Critical Appraisal: Internal & External Validity, Bias, and Power Understanding How to Identify and Plan Studies	Jorge Marquez
11:30 - 12:15	GCP & ICH E6(R3): What Practitioners Must Know	Gabriela Rosa
12:15 - 13:15	Lunch	
13:15 - 14:30	From Research Question to Protocol	Facilitated Workshop Session - Gabriela Rosa
14:30 - 15:15	Panel: Real-World Barriers in Trials (LMIC/HIC Perspectives)	Panel Discussion - Wadha Al Muftah
15:15 - 15:30	Coffee Break	
15:30 - 16:00	Synthesis & Q&A	All Faculty

Day 2: Ethics & Global Standards

Time	Session Title	Speaker/Facilitator
08:30 - 9:00	Ethical Dilemmas in Research – From the Trolley Problem to Clinical Trials	Felipe Fregni
09:00 - 09:30	Research Ethics in Practice - Validity, Oversight, and Responsibility	Jorge Marquez
09:30 - 10:30	WHO Keynote: Latest Global Best Practices for Clinical Trials	Stephanie Villar
10:30 - 10:45	Coffee Break	
10:45 - 11:30	Regulatory & Local Governance	Amany Salama Dahir
11:30 - 12:15	Panel: Aligning WHO Guidance with Local Context	Panel Discussion - Dima Darwish
12:15 - 13:15	Lunch	
13:15 - 14:00	Ethical Dilemmas in Practice	Facilitated Workshop Session - Jorge Marquez
14:00 - 14:45	Informed Consent in Genomics & Precision Medicine	Aisha Naeem
14:45 - 15:00	Coffee Break	
15:00 - 16:00	Designing Consent Materials & Preparing IRB Submissions	Facilitated Workshop Session - Aisha Naeem

AGENDA - CONTINUED

Day 3: Precision Medicine, Rare Diseases & Pharmacogenomics

Time	Session Title	Speaker/Facilitator
08:30 - 09:00	Innovative Trial Designs for Precision Medicine – Mechanistic & Adaptive Approaches	Felipe Fregni
09:00 - 09:30	Innovative Trial Designs for Precision Medicine – Real-World Evidence (RWE) & Pragmatic Approaches	Chris Polanco
09:30 - 10:30	From Registries to Compassionate Use: Research Approaches in Rare Diseases and Surgical Settings	Valeria Bustos
10:30 - 10:45	Coffee Break	
10:45 - 11:30	Pharmacogenomics in Trials: Design & Implementation	Hazem Elewa
11:30 - 12:15	Designing a PGx-Informed Trial	Facilitated Workshop Session - Rania Abdellatif
12:15 - 13:15	Lunch	
13:15 - 14:15	Basket/Adaptive Framework for Rare Diseases	Facilitated Workshop Session - Chris Polanco
14:15 - 15:00	Community and Advocacy Networks in Rare Diseases	Amal Elfatih
15:00 - 15:15	Coffee Break	
15:15 - 16:00	What Truly Changes in Precision Trials?	Interactive Open Discussion

Day 4: AI, Big Data & Multi-Omics in Clinical Research

Time	Session Title	Speaker/Facilitator
08:30 - 09:15	AI & Machine Learning in Trial Design & Analysis – From Fundamentals to Clinical Application	Jorge Marquez
09:15 - 10:00	RWD, Biobanks & Digital Health: From Cohort to Trial	Amal Elfatih
10:00 - 10:15	Coffee Break	
10:15 - 11:00	Genomics & Multi-Omics: From Discovery to Stratified Trials	Radja Messai Badji
11:00 - 12:15	Multi-Omics-Driven Stratified Trial	Facilitated Workshop Session - Radja Messai Badji
12:15 - 13:15	Lunch	
13:15 - 13:30	Guest Presentation: Senior Author, Nature paper “Refining the impact of genetic evidence on clinical success”	Matthew R. Nelson (Online)
13:30 - 14:15	Opportunities & Risks of AI & Omics-Driven Trials	Panel Discussion - Radja Messai Badji
14:15 - 15:15	How Ready Is Your Trial for AI? Bias and Data Quality Audit	Facilitated Workshop Session - Jorge Marquez
15:15 - 15:30	Coffee Break	
15:30 - 16:30	Closing, Certificates & Next-Steps Roadmap	Workshop Chair & Leads