

All lectures take place in Aula 6, Central Building of the Scuola Superiore Sant'Anna (Piazza Martiri della Libertà 33)

13 Feb 2023, Day 1 - Climate

Organized by Roberto Buizza, Robel Takele, Jemal Seid Ahmed, Matteo Dell'Acqua

Programme

9.30-9.45	Welcome and introduction to AgriDev	(M. Dell'Acqua)
9.45-10.45	The earth climate system	(R. Buizza)
10.45-11.00	Break	
11.00-12.00	Basic concepts in Climate Change	(R. Buizza)
12.00-13.00	Lunch Break	
13.00-14.00	A critical reading of the IPCC reports	(Discussion with trainers)
14.00-15.00	Weather forecasts and climate predictions	(R. Buizza)
15.00-15.15	Break	
15.15-16.15	Water balance models and climate service development	(R. Takele, J.S. Ahmed)
16.15-17.15	Case studies in water balance models	(R. Takele, J.S. Ahmed)
17.15-18.30	Q&A and general discussion	(R. Takele, J.S. Ahmed)

Day 2 - Agrobiodiversity

Organized by Camilla Moonen, Paolo Barberi and Carlo Fadda

Programme

9.30-11.00	Introduction to agrobiodiversity (ABD)	(C. Moonen, P. Barberi)
11.00-11.15	Break	
11.15-11.45	The CGIAR explained	(C. Fadda)
11.45-12.15	Case study I, tropical, ABD in seed systems	(C. Fadda)
12.15-12.45	Case study II, tropical, ABD and agroforestry in Costa Rica	(P. Barberi)
12.45-13.45	Lunch	
13.45-14.15	Case study III, temperate, ABD in intensive cereal systems	(C. Moonen)
14.15-14.45	Case study IV, temperate, ABD in organic agroecosystems	(P. Barberi)
14.45-15.00	Break	
15.00-15.15	Introduction to the group discussion	
15.15-16.45	Groups discussion	

16.45-17.15 Q&A and general discussion

Day 3 – Genetics

Organized by Matteo Dell'Acqua, Mario Enrico Pè, Leonardo Caproni, Mercy Macharia Wairimu

Programme

9.30-10.30	Genetics 101, domestication and current agrobiodiversity	(M.E. Pè)
10.30-11.30	The genomics revolution and molecular breeding	(M.E. Pè)
11.30-11.45	Break	
11.45-12.45	Crop improvement by molecular means: GMOs and editing	(M.E. Pè)
12.45-13.45	Lunch Break	
13.45-14.45	Case study: genomics of climate adaptation and farmers' preference	(L. Caproni)
14.45-15.45	Farmers-driven genomic selection and decentralized breeding	(M. Dell'Acqua)
15.45-16.00	Break	
16.00-17.30	GMOs in Africa: challenges and opportunities	(M.M. Wairimu)
17.30-18.00	Q&A and general discussion	

Day 4 – Economics

Organized by Valentina D'Amico, Alessandro Nuvolari, Matteo Coronese, Francesco Lamperti, Elisa Palagi

Programme

9.30-10.30	Intellectual property right management in agriculture	(A. Nuvolari)
10.30-11.30	Structural developmental economy and economic history of agriculture	(A. Nuvolari)
11.30-11.45	Break	
11.45-12.45	Understanding farmer decision making and adoption behaviour	(V. D'Amico)
12.45-13.45	Lunch Break	
13.45-14.45	Climate change and economic inequality across stages of development	(E. Palagi)
14.45-15.45	Climate change and economic inequality across stages of development	(E. Palagi)
15.45-16.00	Break	
16.00-17.30	Are there limits to growth? Discussion with students	(All trainers)
17.30-18.00	Q&A and general discussion	

Day 5 – Transdisciplinary synthesis and project design

Organized by Valentina D'Amico, Anna Camilla Moonen, Mercy Macharia Wairimu, Jemal Seid Ahmed

Programme

9.30-10.00 Introduction to the group exercise about project writing (V. D'Amico)

10.00-12.30 Group exercise (V. D'Amico, M.M. Wairimu)

12.30-13.30 Lunch

13.30-14.00 Restitution and feedback by participants

14.00-16.00 End of course written examination