



HARMONY

Novel tools for test evaluation and disease prevalence estimation

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COST ACTION CA18208

Training workshop

“Statistical models for infectious diseases epidemiology”

Location: Piazzale Gambuli 1 - Edificio A - Piano 0 (Ellisse) 06132
Sant'Andrea delle Fratte Perugia, Italy

Dates: 16-17 September 2021

This 2-day training will focus on the application of state-of-the art methods for the epidemiology of infectious disease. Participants will learn about the elements of Bayesian statistics, the principles of diagnostics test evaluation with and without the presence of a reference standard, as well as the basics of models for transmission dynamics.

The training is interactive through discussion and practical examples among participants and with instructors. English will be the working language of this training. Participants should have a basic knowledge of the statistical language R. Participants will need to bring their laptops.

Financial support: All physically attending participants are eligible for the reimbursement of incurred accommodation, meals, and local travel expenses in the country where the meeting takes place is paid as one item known as daily allowance. During the training school all participants have to sign the attendance list both days to be considered eligible for reimbursement. The daily allowance considers the participant's travel start and end dates and hours. The daily allowance rate is determined based on the country where the event takes place [**Italy 180 EUR/day**]. No invoices for accommodation, meals, and local transport in the country where the meeting takes place are required. In the cases when the travel dates to and from the event cannot be determined, the participant shall provide any documentation attesting their travel dates so that the daily allowance can be correctly reimbursed. For those participants whose primary affiliation is in the country where the meeting takes place, if they travel less than 100 km (one way) in the country where the meeting takes place, the expense is reimbursed through the daily allowance rate and cannot be claimed separately. More information on transport expenses (car travel, airplane/train/bus/ferry travel) can be found in Sections 5, 6 of the [COST Vademecum](#).

How to Register: <https://forms.gle/56myxUyG9MuTck166> .

The first eligible 15 participants will receive an official invitation from e-COST.





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Date	Start	End	Speaker(s)	Title
Thursday 16 September 2021				Edificio A - Piano 0 (Ellisse)
	9:00	10:15	Paolo Eusebi	Diagnostics with a perfect reference test
	10:15	11:15	Paolo Eusebi	R Lab
	11:15	11:45		Coffee break
	11:45	12:20	Paolo Eusebi	Diagnostics with an imperfect reference test
	12:20	12:55	Paolo Eusebi	R Lab
	12:55	14:00		Lunch Break
	14:00	15:00	Paolo Eusebi	Meta-analysis of diagnostic studies with and without a perfect reference test
	15:00	15:30	Paolo Eusebi	R lab
	15:30	16:00		Coffee break
	16:00	16:30	Paolo Eusebi	True prevalence estimation
	16:30	17:00	Paolo Eusebi	R lab





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Date	Start	End	Speaker(s)	Title
Friday 17 September 2021				Edificio A - Piano 0 (Ellisse)
	9:00	10:15	Fabrizio Stracci	Infectious Disease Surveillance
	10:15	11:15	Fabrizio Stracci	Basic compartmental models for infectious disease dynamics
	11:15	11:45		Coffee break
	11:45	12:20	Luca Scrucca	Estimating the R_t
	12:20	12:55	Luca Scrucca	R lab
	12:55	14:00		Lunch Break
	14:00	15:00	Luca Scrucca	Statistical models for infectious disease dynamics
	15:00	15:30	Luca Scrucca	R lab
	15:30	16:00		Coffee break
	16:00	16:30	Luca Scrucca	A Covid19 case study
	16:30	17:00	Luca Scrucca	R lab

