



HARMONY

Novel tools for test evaluation and disease prevalence estimation

<https://harmony-net.eu/>



COST ACTION CA18208

Training School

“Bayesian Latent Class models - Meta-Analysis: An Introduction”

Location: University of Novi Sad - Rectorate, address: Dr Zorana Djindjića 1, 21102 Novi Sad

Dates: 31 August -2 September 2022

This 3-day training will (i) focus on the application of Bayesian Latent Class models for diagnostic test evaluation and true prevalence estimation and (ii) provide an introduction to the steps towards conducting a meta-analysis. This is an interactive event with hands-on training sessions.

English is the working language of this training. Participants must have basic knowledge of the statistical language R and JAGS and have to bring their laptops.

Financial support is provided according to COST rules*

Number of participants: 25. Register at: <https://forms.gle/v32WWF35NgKBiyCR6>

Last day to register: Sunday 19 June 2022.

The first eligible 25 participants will receive an official invitation from e-COST.

*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 for each day 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 [**Serbia 181 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. 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, are invited to claim only the part of the daily allowance intended to cover the short-distance transport expenses. More information on transport expenses (car travel, airplane/train/bus/ferry travel) can be found in Appendix 1 – Section 3.1. [COST Annotated rules document](#).





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Date	Start	End	Speaker(s)	Title
Wednesday 31 August 2022				Room Name
	9:00	09:15	All	Welcome and Introductions
	09:15	10:15	Julio Álvarez / Eleftherios Meletis	Introduction to Bayesian Analysis
	10:15	11:15	Julio Álvarez / Eleftherios Meletis	A practical introduction to MCMC (summary of pre-course work)
	11:15	11:45		Coffee break
	11:45	12:30	Eleftherios Meletis / Julio Álvarez	The Hui-Walter model (Hands-on training) / Getting familiar with JAGS/Latent Variables
	12:30	13:00	Eleftherios Meletis / Julio Álvarez	The Hui-Walter model (Hands-on training)
	13:00	14:00		Lunch Break
	14:00	15:30	Julio Álvarez / Eleftherios Meletis	Multi-test multi-population Hui-Walter models (Hands-on training)





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Date	Start	End	Speaker(s)	Title
Thursday 1 September 2022				Room Name
	9:00	09:45	Julio Álvarez / Eleftherios Meletis	Multi-test multi-population Hui-Walter models (Hands-on training)
	09:45	10:15	Julio Álvarez / Eleftherios Meletis	Multi-test multi-population Hui-Walter models (Hands-on training)
	10:15	10:45		Coffee break
	10:45	13:00	Julio Álvarez / Eleftherios Meletis	Bayesian true prevalence estimation (Hands-on training)
	13:00	14:00		Lunch Break
	14:00	15:00	Eleftherios Meletis / Julio Álvarez	Bayesian latent class models for continuous tests (Hands-on training)
	15:00	15:30	All	Day 2 Wrap-up





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Date	Start	End	Speaker(s)	Title
Friday 2 September 2022				Room Name
	9:00	09:30	Marija Glisic	To meta-analyze or not?
	09:30	10:00	Marija Glisic	Meta-analysis of binary data
	10:00	10:30	Marija Glisic	Meta-analysis of continuous data
	10:30	11:00		Coffee break
	11:00	12:30	Marija Glisic	Heterogeneity, influence analysis and publication bias
	12:30	13:00	All	Day 3 Wrap-up

