



# HARMONY

Novel tools for test evaluation and  
disease prevalence estimation

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



EUROPEAN COOPERATION  
IN SCIENCE & TECHNOLOGY

## COST ACTION CA18208

Date		Start	End	Session Topic	Title	
Wednesday 12 July				To be announced		
	Basic principles of validation by simulation	09:00	09:15		Welcome and Introductions	
		09:15	10:00	Didactic Teaching	Recovering simulated parameter values	
		10:00	10:45	Practical Session		
		10:45	11:00	Coffee break		
		11:00	11:45	Didactic Teaching	Posterior predicted p-values (recovering test contingency tables)	
		11:45	12:30	Practical Session		
		12:30	12:45	Coffee break		
	Alternative LCM	12:45	13:15	Didactic Teaching	Random effects formulation used in medicine	
		13:15	14:00	Practical Session		
		14:00	15:00	Lunch break		
Thursday 13 July	Sample Size Estimation	09:00	09:30	Didactic Teaching	Determining the objective (What is the desired outcome?)	
		09:30	10:15	Practical Session		
		10:15	10:45	Coffee break		
		10:45	11:15	Didactic Teaching	Obtaining an answer by simulation (i.e. brute force)	
		11:15	12:00	Practical Session		
		12:00	12:30	Coffee break		
	DIC and WAIC	12:30	13:00	Didactic Teaching	Theory - Limitations and Calculation	
		13:00	14:00	Practical Session		
		14:00	15:00	Lunch break		
Friday 14 July	Discussion day	09:00	11:00	Discussion	Visualizing prior → Posterior change (Prior/Data conflicts) DIC to justify model selection for BLCM (including covariance terms) - good or bad idea?	
		11:00	11:30	Coffee break		
		11:30	13:00	Discussion	HMC vs MCMC - should we be moving away from JAGS? Should we write a position paper as HARMONY experts?	
		13:00	14:00	Event Closure – Lunch box		

