TRAINING SCHOOL

PART B: Analytical Methodologies for Hematological Disorder Diagnostics and Prognostics

3rd - 4th June 2026
Virtual Meeting

ORGANIZER: Working Group 03
Dr Helen Latsoudis (Leader) | Dr Giacomo Cavalca (Co-Leader)

AGENDA (time zone CET)

DAY 1 - Afternoon Session (3Hrs)

14.00 - 15.30 | Study design & core statistical concepts in Hematology (Speaker TBC)

Trainees will be trained on important aspects of:

A. A proper study design of a rare hematological disease, including

- disease prevalence & incidence,
- sample size estimation,
- survival analyses and risk estimation (hazard and odds ratios)

B. The core statistical concepts of such a design, including

- descriptive statistics (e.g. mean, S.D.)
- inference statistics
- probability distributions
- hypothesis testing (parametric, non-parametric)
- confidence intervals
- regression analyses

15.30 - 17.00 | Application of Bayesian Methods in Hematology (Speaker TBC)

Trainees will be trained on important aspects of

- handling small sample sizes and sparse data
- hierarchical multilevel models for multicenter cohorts
- core principles of Bayesian inference (prior, likelihood, posterior)

- Bayesian regression (linear, logistic) and survival analyses (time to event models)
- Simulations and interpretation of graphical outputs (posterior plots, probability curves)

DAY 2 - Afternoon session (3Hrs)

14.00 - 17.00 | Hands-on training (Trainers TBC)

Trainees will practice on datasets, on their own electronic device, in real-time following their trainers' instructions.

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