TRAINING SCHOOL

PART A: Machine Learning Approaches for Hematological Disorder Diagnostics and Prognostics

27th - 28th May 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 | Foundations of Machine Learning in Hematology (Speaker TBC)

Trainees will be trained on important aspects of:

- Machine learning workflow: from data to model
- Data preprocessing & Feature engineering
- Handling small sample sizes and sparse data
- Interpretation of predictive models for clinicians, translating ML into daily patient care
- Ethical considerations and bias in ML models

15.30 - 17.00 | Advanced Machine Learning methods & applications (Speaker TBC)

Trainees will be trained on important aspects of

- Unsupervised learning (clustering, dimensionality reduction)
- Supervised learning (e.g., classification, regression)
- Handling complexity: multi-centric data with linear mixed models
- Handling complexity: high-dimensional data via penalized estimation
- Case study: DNA Methylation surrogate biomarker creation with penalized mixed-effects multitask learning

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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