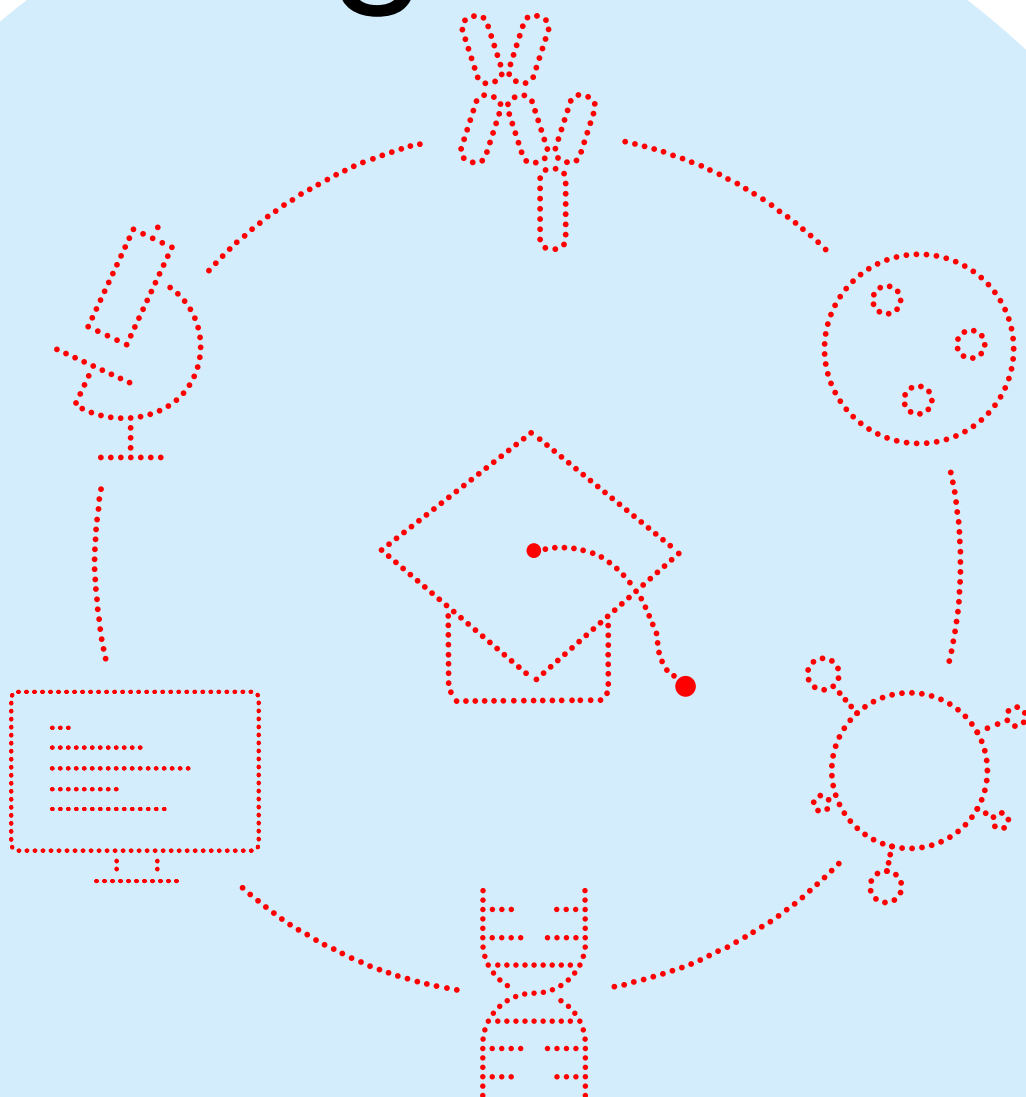
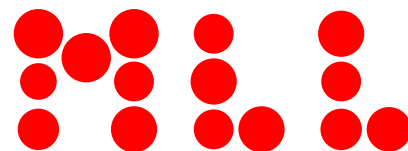


State of the art diagnostics in hematological malignancies





Overview

This 3-day event provides an update on the diagnostics in hematology based on up to date guidelines and recommendations. Further, an overview on the diagnostic work-up of hematological malignancies performed at MLL is presented. Lectures and practical sessions in the lab are combined in order to provide a comprehensive insight.

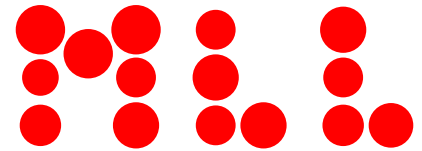
A set of lectures covers all disease entities. These presentations provide state of the art diagnostic requirements based on guidelines and recommendations and give insight into the diagnostic work-up performed at MLL. At the end of each presentation, time is reserved for questions & answers. A Second set of lectures covers the methods applied at MLL, including sessions on whole genome sequencing and artificial intelligence. Practical sessions in the lab will allow a deeper insight into the diagnostic work-up at MLL.

Course details

Course date spring, 2024	22nd – 24th of April 2024, 8.00 a.m. to 5.45 p.m.
Venue	MLL Munich Leukemia Laboratory Max-Lebsche-Platz 31, 81377 Munich, Germany
Maximum group size	12 persons
Costs	€ 1500* *including all course material, lunch and drinks during the day and dinner on Tuesday evening
Application deadline	1st of March 2024

Registration for the event takes place directly on our website at [link](#)

Accommodation has to be booked separately, recommendations are available upon request.
For further information and course registration please contact: fortbildung@ml.com



Course content

General lectures

- Hematological malignancies - WHO classification
- Overview diagnostic requirements
- Lectures on disease entities: CML, MPN, AML, CHIP, MDS, ALL, MBL & CLL, Lymphomas, MGUS & Multiple Myeloma

Lecture Structure:

- Diagnostic requirements according to guidelines and recommendations
- Diagnostic work-up at MLL
- Questions & answers

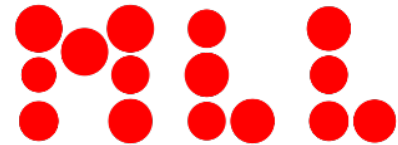
Lectures on methods applied at MLL

- Cytomorphology
- Immunophenotyping
- Chromosome banding analysis
- Fluorescence in situ hybridization (FISH)
- Molecular genetics and next-generation-sequencing
- Whole genome sequencing (WGS)
- Bioinformatics
- Artificial Intelligence (AI)

Practical sessions

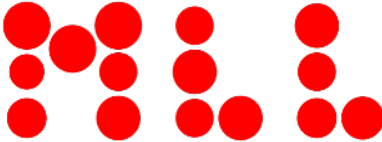
- Cytomorphology: microscopy of bone marrow & blood smears
- Immunophenotyping: sample preparation, data analysis, discussion of difficult cases
- Chromosome banding analysis: karyotyping, evaluation & reporting, case discussion and chromosome quiz
- FISH: microscopy, analysis & interpretation
- Sequencing: variant interpretation & reporting
- Integrated diagnostics
- WGS: presentation and discussion of various cases

The program ends with a joint discussion on the future of hematological diagnostics.



Preliminary Program

Monday, 22nd of April 2024			
08:00	08:05	Introduction	Welcome
08:05	08:30	Introduction	Introduction of participants and course overview
08:30	10:00	MLL insights	Lab tour
Break			
10:15	11:00	Disease	WHO classification: hematological malignancies overview of diagnostic requirements
11:00	11:45	Disease	MPN, CHIP
11:45	12:30	Disease	CML
Lunch Break			
13:30	14:15	Methods	Cytomorphology
14:15	14:45	Practical	Microscopy of bone marrow and blood smears
Break			
15:00	15:45	Methods	Artificial intelligence
15:45	16:30	Methods	Immunophenotyping
16:30	17:45	Practical	Immunophenotyping: data analysis
Tuesday, 23rd of April 2024			
08:00	08:45	Disease	MDS
08:45	09:30	Disease	MBL & CLL
09:30	10:15	Disease	Lymphomas
Break			
10:30	11:30	Methods	Chromosome analysis
11:30	12:15	Practical	Karyotyping
12:15	12:20	Group Picture	
Lunch Break			
13:15	14:15	Methods	FISH
14:15	14:45	Practical	FISH analysis and reporting
Break			
15:00	16:00	Methods	PCR
16:00	16:45	Methods	Sequencing: method and reporting
16:45	17:30	Methods	Bioinformatics
ca. 17:45		Joint Dinner	



Wednesday, 24th of April 2024			
08:00	08:45	Disease	AML
08:45	09:30	Disease	ALL
09:30	10:15	Disease	MGUS, SMM and Multiple Myeloma
Break			
10:30	11:15	Practical	Sequencing: Variant interpretation hands on
11:15	13:00	Practical	Integrated diagnostics
Lunch Break			
14:00	15:00	Methods	WGS
15:00	15:45	Practical	WGS: cases
Break			
16:00	16:30	MLL insights	Discussion: Future of hematological diagnostics
16:30	16:45	Evaluation	Feedback round



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