

Programme MIRACLE Winter Academy 1

19 - 23 January 2026 | Amsterdam UMC

ADORE - RDC Building | Room 't IJ - 2nd floor | Van der Boechorststraat 6B, 1081 BT Amsterdam

Setting the Stage for a New Generation of MRD Experts

The MIRACLE Winter Academy 1 launches our innovative doctoral training with an immersive week focused on leukemia minimal residual disease (MRD). Bringing together all MIRACLE doctoral candidates (DCs) for the first time. The Winter Academy provides a unique blend of foundational knowledge, cutting-edge science, and personal development. The programme is enriched by keynote lectures and sessions from internationally recognized experts whose insights are critical not only for training the next generation of researchers but also for shaping the broader field of leukemia research and treatment.

Lectures and discussions will highlight state-of-the-art MRD detection, therapeutic innovation, and emerging technologies, addressing topics of high relevance for both academic and clinical audiences. Selected programme elements will be open to external participants from the leukemia research community, fostering cross-sector exchange and wider dissemination of knowledge.

Combat minimal residual disease (MRD) to revolutionize leukemia treatment

MIRACLE-Leukemia is a Marie Skłodowska-Curie doctoral network aiming to educate a new generation of researchers optimally equipped to advance and accelerate development of novel therapeutics directed to leukemia MRD, and to progress effective treatments to the clinic. MIRACLE will elucidate the leukemia MRD landscape by integrating the knowledge on mechanisms driving persistence of MRD from different angles, and by the subsequent design of efficient and less toxic, novel targeted combination therapy with increased capacity to induce deep responses in patients.

MIRACLE is an international, multidisciplinary and multisectoral training program consisting of 23 academic and non-academic partners from 8 EU countries (The Netherlands, Belgium, Germany, France, Spain, Italy, Czech Republic, United Kingdom).

The project is coordinated by Dr. Linda Smit and Prof. Jacqueline Cloos of the Amsterdam UMC department of Hematology.

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More information



Amsterdam UMC

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- Visit www.miracle-leukemia.eu | Follow [MIRACLE LinkedIn](#)



Programme MIRACLE Winter Academy 1 | Day 1: Monday, 19 January 2026

Time	Topic	Presenter
09.00-09.10	Welcome & opening	Linda Smit Amsterdam UMC MIRACLE Project Coordinator
09.10-09.45	From a clinical point: standard therapeutics for AML patients	Dave de Leeuw Amsterdam UMC
09.45-10.30	Immunotherapy including cellular therapy and CAR T cells in AML patients	Marion Subklewe LMU - University Hospital of Munich MIRACLE Primary Supervisor DC10
10.30-11.10	From a clinical point: therapeutics for ALL patients	Jeanine Stutterheim Prinses Máxima Center for Pediatric Oncology
11:10-11:25	Break	
11.25-11.45	Advances and clinical significance of detection of residual disease in AML by flow cytometry	Jacqueline Cloos Amsterdam AMC MIRACLE Primary Supervisor DC01
11.45-12.15	Advances and clinical significance of molecular detection of residual disease in AML	Peter Valk Erasmus MC / HOVON
12.15-12.45	Computational MRD and AI	Costa Bachas Amsterdam UMC
12:45 - 14:15	Lunch	
14:15-14:45	ScRNA Seq and the immune microenvironment in AML and ALL	Olaf Heidenreich Prinses Máxima Center for Pediatric Oncology
14.45-15.30	ScSeq RNA and proteomics in ALL	Jan Cools KU Leuven MIRACLE Primary Supervisor DC05
15.30-16.15	BCL2 targeting in AML	Rachel Thijssen Amsterdam UMC MIRACLE Primary Co-Supervisor DC04
16:15-16:55	Break	
16.45-17.45	Keynote lecture: Functional genetic screens to identify biomarkers of treatment response and effective treatment combinations	Rene Bernards Netherlands Cancer Institute Utrecht University
17:45-18:00	Wrap up	

Programme MIRACLE Winter Academy 1 | Day 2: Tuesday, 20 January

MIRACLE MidTerm Consortium Meeting & Training activities for Doctoral Candidates



Programme MIRACLE Winter Academy 1 | Day 3: Wednesday, 21 January 2026

Time	Topic	Presenter
09.00-09.30	Leukemia stem cells	Linda Smit Amsterdam UMC MIRACLE Primary Supervisor DC04
09.30-10.00	Clonal hematopoiesis	Joop Janssen Radboud UMC
10.00-10.30	Enhancers in AML	Ruud Delwel Erasmus MC
10.30-11.00	Overcoming drug resistance in leukemia	Matthieu Duchmann INSERM MIRACLE Primary Co-Supervisor DC06
11:00-11:15	Break	
11.15-12.00	Microenvironment and AML Biology	Simon Mendez-Ferrer University of Sevilla MIRACLE Primary Supervisor DC07
12.00 -12.45	Metabolomics and AML	Jan Jacob Schuringa University of Groningen
12:45-14:00	Lunch	
14.00-14:45	Senescence as therapeutic target in leukemia	Antonella Santoro Ospedale San Raffaele MIRACLE Primary Supervisor DC08
14.45-15.30	Degraders as therapeutics	Madelon Maurice UMC Utrecht
15.30-16.15	Screening for optimizing immune therapies	Daniel Peeper Netherlands Cancer Institute
16:15-16:30	Break	
16.30-17.30	Keynote lecture: The Immune Landscape of Acute Myeloid Leukemia	Sergio Rutella University of Sheffield
17:30-17:45	Wrap-up	

Programme MIRACLE Winter School Academy I 1 Day 4: Thursday, 22 January and Day 5, 23 January

Training activities for Doctoral Candidates