



**GARDEN WEBINARS: A COMPREHENSIVE APPROACH FOR BREAKING-UP THE COMMON BARRIERS
OF HEMATOLOGICAL RARE DISEASES**

Gene Therapy for Hemoglobinopathies:
Current Clinical Applications and Future Perspectives

FAD SINCRONA ECM

16th October 2026

DATE: October 16, 2026

TRAINING HOURS: 2 hours

NUMBER OF PARTICIPANTS: 500

ECM ID: 275 - TBD

CME CREDITS GRANTED: 2

FAD PLATFORM URL: <https://infomed-ecm.it/>

FAD PLATFORM LOCATION: Via San Gregorio 12 – 20124 Milan, Italy

SCIENTIFIC DIRECTOR

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FACULTY:

Mattia Algeri – Roma (Italy)

Juan Antonio Bueren – Madrid (Spain)

Aurelio Maggio – Palermo (Italy)

Mariasanta Napolitano – Palermo (Italy)

TRAINING OBJECTIVE:

3 - Documentazione clinica. Percorsi clinico-assistenziali diagnostici e riabilitativi, profili di assistenza - profili di cura

in&fo med s.r.l.

Sede legale e Operativa

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RAZIONALE

Gene therapy is rapidly reshaping the management of inherited hemoglobin disorders, particularly β -thalassemia and sickle cell disease (SCD). The recent clinical implementation of gene-based therapeutic strategies represents one of the most important advances in hematology and rare diseases, opening new perspectives for potentially curative treatments.

Several gene therapy approaches have now entered clinical practice, demonstrating significant efficacy in reducing transfusion burden, improving quality of life, and modifying disease progression. At the same time, important challenges remain regarding patient selection, access to therapies, long-term safety, sustainability, and integration into healthcare systems.

This ECM webinar aims to provide clinicians, hematologists, pediatricians, transfusion specialists, researchers, and healthcare professionals with an updated overview of the current status of gene therapy for thalassemia and sickle cell disease, with a particular focus on clinical application, patient management, and future therapeutic developments.

The programme will bring together leading Italian experts actively involved in translational research and clinical implementation of advanced therapies for hemoglobinopathies. Particular attention will also be dedicated to emerging next-generation technologies, including gene editing and innovative in vivo therapeutic platforms, which are expected to further expand treatment opportunities in the coming years.

The webinar intends to promote multidisciplinary discussion and strengthen scientific collaboration in the field of advanced therapies for rare hematological diseases

COURSE TARGET AUDIENCE:

Medical Doctor

- Hematology
- Internal Medicine
- Pediatricians

Biologist

- Biologist

Biomedical Laboratory Technician

- Biomedical Laboratory Technician

Nurse

- Nurse

OBJECTIVE:

1. Understand the principles and potential impact of gene editing and innovative therapeutic strategies for hemoglobinopathies
2. Discuss key clinical, organizational and multidisciplinary aspects related to patient selection, treatment pathways and long-term follow-up
3. Describe the current clinical applications of gene therapy in β -thalassemia and other inherited hemoglobinopathies

4. Analyze access, sustainability, registry development and healthcare integration challenges for advanced therapies across different healthcare systems

SCIENTIFIC PROGRAM

16:00 – 16:10

Opening Remarks and Introduction

Chair: A. Maggio

16:10 – 16:35 - FIRST SESSION

Chair: A. Maggio

16:10 – 16:35 Gene Therapy for β -Thalassemia: Current Clinical Applications

M. Algieri

16:35 – 17:00 - SECOND SESSION

Chair: M. Algeri

16:35 – 17:00 Gene Editing and Innovative Strategies for Hemoglobinopathies

M. Napolitano

17:00 – 17:25 - THIRD SESSION

Chair: M. Napolitano

17:00 – 17:25 Translational Research and Future Therapeutic Platforms in congenital aplastic anemia

J.A. Bueren

17:25 – 17:50 Round Table Discussion

Chair: A. Maggio

Access, Sustainability and Future Perspectives for Advanced Therapies in Italy with the participation of panelists

Discussion topics:

- National organization of gene therapy networks
- Equity of access to advanced therapies
- Long-term follow-up and registries
- Future integration into healthcare systems

17:50 – 18:00 Conclusions and final remarks

COGNOME	NOME	laurea	specializzazione	ENTE DI APPARTENENZA	DESCRIZIONE ATTIVITA' PROFESSIONALE/FORMATIVA
Maggio	Aurelio	Medicina e Chirurgia	Ematologia	Fondazione Franco e Piera Cutino (Palermo)	Presidente Fondazione Cutino e Medico Ematologo (Villa Sofia-Cervello Palermo)
Napolitano	Mariasanta	Laurea Medicina e Chirurgia	Ematologa	UOC Ematologia e Malattie Rare Campus di Ematologia "FRANCO E PIERA CUTINO" AOR Villa Sofia-Cervello (Palermo)	Direttore UOC Ematologia e Malattie Rare
Algeri	Mattia	Laurea Magistrale in Medicina e Chirurgia	Oncoematologia	Unità di Trapianto di Cellule Staminali e Terapia Cellulare e Genica dell'IRCCS Ospedale Pediatrico Bambino Gesù (Roma) Università Magna Graecia (Catanzaro)	Dirigente Medico, Ricercatore in Pediatria
Bueren	Juan Antonio	Laurea in Farmacia	Farmacia	CIEMAT and Biomedical Network Centre for Research on Rare Diseases, CIBERER	Director of the Biomedical Innovation Unit