



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

**THE ROLE OF COLLABORATION BETWEEN REGULATORY AGENCIES
AND RESEARCHERS IN PROMOTING INNOVATION
FOR HEMATOLOGICAL RARE DISEASES**

FAD SINCRONA ECM

29 NOVEMBRE 2025

RESPONSABILE SCIENTIFICO

Prof. A. Maggio

COMITATO SCIENTIFICO:

Prof. A. Maggio, Prof. S. Rivella

DATE DI SVOLGIMENTO:	29 NOVEMBRE 2025
ORE FORMATIVE:	5 ore
N. PARTECIPANTI:	500
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RAZIONALE

Rare hematological diseases, while individually uncommon, collectively impact millions of lives worldwide. These conditions present significant challenges in terms of early diagnosis, treatment accessibility, and appropriate and effective patient communication. Overcoming these barriers requires a multidisciplinary international network aimed at establishing a common framework for corrective actions.

The role of regulatory agencies in promoting innovation for hematological rare diseases is critical to improving patient outcomes through expedited development and access to novel therapies. Their responsibilities include:

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Sede legale e Operativa

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Capitale Sociale i.v. € 15.000.00



1. **Facilitating Accelerated Approval Pathways:** Agencies such as the FDA (U.S. Food and Drug Administration), EMA (European Medicines Agency), and others often implement programs like Breakthrough Therapy Designation, PRIME scheme, Priority Review, and Adaptive Pathways to fast-track promising treatments.
2. **Providing Guidance and Support:** They issue scientific advice, guidance documents, and frameworks to help researchers and pharmaceutical companies develop therapies tailored to the unique challenges of hematological rare diseases, such as limited patient populations and biomarker validation.
3. **Encouraging Orphan Drug Designation:** Regulatory agencies offer incentives like market exclusivity, tax credits, and grants for developing treatments targeted at rare diseases, thus fostering innovation by reducing financial risks.
4. **Supporting Innovative Trial Designs:** Promoting adaptive clinical trials, surrogate endpoints, and real-world evidence collection helps accelerate the evaluation process and adapt to the specific needs of rare hematological conditions.
5. **Promoting Global Collaboration:** Agencies often engage in international cooperation to harmonize standards, share data, and streamline approval processes across borders, thereby increasing access to innovative therapies worldwide.

Particularly, EMA and National Regulatory Agencies across EU have established a robust ecosystem of support tools for developers, combining early engagement, regulatory guidance, collaborative networks, compliance resources, and training. These tools are designed to streamline the development and regulatory approval of innovative medicines and health technologies, with a strong emphasis on digital transformation and AI integration. Moreover, a positive benefit-risk balance is essential for marketing authorization. Therefore, Regulatory Agencies work to look at the process as dynamic, according to the evidence-driven, and ensuring that only medicines with a favorable balance of benefits over risks will be available to patients, with ongoing monitoring to safeguard public health. Finally, while drug development for rare diseases faces significant scientific, economic, and regulatory obstacles, Regulatory Agencies make opportunities possible through innovative use of data, technology, policy incentives, and collaborative models. Harnessing these strategies is essential to bring life-changing therapies to patients with rare conditions.

The rapid evolution of treatment options for rare hematological diseases necessitates ongoing education for healthcare professionals on the innovative treatments, on regulatory requirements and available support tools for developers, as well as about the approaches in determining cost vs benefit advantage and the regulation of new tool as AI. This event focuses on several key areas where recent progress has been made in term of academic approaches for the cure of thalassemia, hemophilia and disorders of iron pathways. A model for calculating the cost of gene therapies, according to the different epidemiology of the rare hematological disease in the single country will be presented. Finally, the EMA and EU Regulatory Network approaches to address the challenges posed by innovative technologies and methodologies applied to drug developments will be presented. These issues will be discussed with AIFA representatives who will share their perspective and available support tools for researchers to translate from academic research to the bed of the patient's product. At the end of the webinar, it will be held with the participation of the associations of the patients, the regulatory agencies, the participating KOL, psychologists and the HTA experts.



GARDEN D'AGOSTINO AWARD FOR INNOVATIVE RESEARCH IN HEMATOLOGICAL RARE DISEASES

The D'Agostino Prize for Innovative Research in Hematological Rare Diseases honors outstanding scientific contributions that advance the understanding, diagnosis, or treatment of rare blood disorders. This prestigious award recognizes groundbreaking research that demonstrates creativity, scientific rigor, and the potential to significantly impact patient outcomes in the field of hematology.

All details on the award are shown on <https://garden.fondazione-cutino.it>. The deadline for the presentation of the application is by October 6, 2025 at 2:00 pm.

TARGET DEL CORSO:

Medico Chirurgo

- Ematologia
- Oncologia

Biologo

- Biologo

Tecnico sanitario laboratorio biomedico

- Tecnico sanitario laboratorio biomedico

Infermiere

- Infermiere

OBIETTIVO:

L'obiettivo di questo evento educativo è migliorare le conoscenze e le competenze dei partecipanti nella gestione delle malattie ematologiche rare. Diffondendo i più recenti progressi terapeutici e promuovendo la collaborazione tra i diversi attori coinvolti, si punta a elevare la qualità dell'assistenza e a ottimizzare gli esiti per i pazienti.

PROGRAMMA SCIENTIFICO

09:00 – Introduction – A. Maggio

09:10 - 10:45 - FIRST SESSION Chairs: Prof. S. Rivella

Challenges and opportunities of new treatments in Thalassemia, Hemophilia and Anemia: setting the scene

09:10 – 09:30 Reframing Thalassemia Syndrome as a benign haematopoietic stem-cell disorder
Prof. A. Maggio

09:30 – 09:50 Translating fundamental biology of erythropoiesis into the cure of Thalassemia
Prof. S. Rivella

09:50 – 10:10 Molecular approaches for controlling iron pathways to treat Anemia
Dr. O. Marques

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10:10 – 10:30 Gene Editing approach for the cure of Hemophilia
Prof. M. Pinotti

10:30 – 10:45 Q & A session: ALL FACULTY

10:45 - 12:45 – SECOND SESSION Chairs: Prof. P. Foggi (to be confirmed), Prof. A. Maggio
Challenges and opportunities of new treatments in Thalassemia, Hemophilia and Anemia: understanding regulatory requirements and how to make the best use of new technologies

10:45 – 11:10 Challenges and opportunities in drug development for rare diseases: regulators perspective
Dr. A. Isgro (to be confirmed)

11:10 – 11:35 The role of regulators to support innovation and access to new treatments for rare diseases
Prof. P. Foggi (to be confirmed)

11:35 – 12:00 The regulatory approaches of EMA for implementing the appropriate use of AI in medicine
Dr. Armando Magrelli (to be confirmed)

12:00 – 12:25 Opportunities and Challenges of Artificial Intelligence in Hematology
S. D'Amico

12:25 – 12:45 Q & A session: ALL FACULTY

12:45 - 13:30 – THIRD SESSION Chair: Dr. A. Messori
How to translate these new approaches in possible drug for Thalassemia, Hemophilia, and Anemia

12:45 – 13:05 Inverse relation between the price of innovative treatments and disease incidence
Dr. A. Messori

13:05 – 13:25 Impact of joint scientific consultation and joint clinical evaluation on the future development and access to new drugs for rare diseases
Dr. P. Rivetti di Val Cervo (to be confirmed)

13:25 - 13:30 Q & A session: ALL FACULTY

13:30 - 13:45 – Garden D'Agostino Award Ceremony

13:45 Closing remarks
Prof. A. Maggio

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