

International Workshop
Complement system:
rare diseases and
targeted therapies

**Second
Edition**

Palermo
14-15 November 2025

Chairmen

Francesco Arcoleo
Pietro Andrea Accardo

Program

Crosstalk among the renin-angiotensin, complement, coagulation and kallikrein-kinin system in inflammation: from rare diseases to specific proteins as therapeutic targets.

Rationale

The renin-angiotensin with its pro and anti-inflammatory effects, the complement system with C1 inhibitor that inhibits components of the kallikrein-kinin system (KKS), such as activated FXII, FXI and plasma Kallikrein, as well plasmin affecting the fibrinolytic system; the coagulation and the KKS, tightly interlinked with the contact system, which is integral to the intrinsic pathway of coagulation (FXI) and thrombus formation; each of them consist of a large number of distinct plasma and membrane bound proteins and receptors that can be activated through proteolytic cascades. Notably, all systems are excessively activated during inflammation, they have potent proinflammatory and prothrombotic effects and they increase vascular permeability, leading to edema.

Although the dysregulation of each protein system is involved in the pathogenesis of common disorders, only a few rare diseases such as hereditary angioedema, paroxysmal nocturnal hemoglobinuria, atypical-uremic hemolytic syndrome, C3 glomerulopathies, rare coagulopathies, are approved for clinical treatment targeting renin-angiotensin, complement, coagulation and KKS. The diagnosis and the treatment of these rare diseases are a challenge for health system because it is necessary to improve basic and clinical knowledge and management skills in order to offer the best response to patient's needs. In our workshop we would love to discuss the role of these complex plasma protein systems in disease pathogenesis and then share future pharmacological strategies to treat rare and common diseases with plasma contact factors and complement targeted therapies.

In order to achieve the best results within our workshop, it is of fundamental importance that everyone is an active and responsible part in our job project and in the sharing of final common choices.

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Program

Friday, November 14th

10.00-10.30 *Welcome coffee*

Pre-Congress Round Table - Regional Laboratory Medicine Network*
Clinical cases and laboratory parameters

- 10.30-10.40** *Francesco Arcoleo* Introduction
- 10.40-11.00** *Francesco Gervasi* Complete blood count (CBC) in PID
- 11.00-11.20** *Pietro Accardo* Lymphocyte subpopulation in PID
- 11.20-11.40** *Marcello Ciaccio* Ig and IgG subclasses in PID, serum electrophoresis, a1AT deficit
- 11.40-12.00** *Florinda Listi* Genetics in PID
- 12.00-12.15** *Discussion on the topics*

PANEL

Pietro Accardo, Francesco Arcoleo, Maria Andriolo, Tommaso Aronica, Vincenzo Bramanti, Antonello Calabrò, Marcello Ciaccio, Guido Comandatore, Francesco Di Simone, Tina Di Naso, Giuseppe Falliti, Giuseppe Friscia, Francesco Gervasi, Patrizia Grassi, Giovanna Marra, Patrizia Quattrocchi, Ada Restivo, Patrizia Rizzo, Lino Rodolico

***Non CME session**

- 12.15 Registration and *Light lunch*
- 13.30 *Welcome in Palermo*
Francesco Arcoleo, Pietro Accardo • Conference Chairmen
Mauro Cancian • ITACA President
- 13.45 *Lectio Magistralis*
Innate immunity: the virtues of a nonclonal system of recognition
Francesco Dieli

I Session • COMPLEMENT SYSTEM IN IMMUNE REGULATION

Chairs: *Francesco Arcoleo, Serena Meraviglia, Massimo Triggiani*

- 14.15 Complement history • *Vincenzo Montinaro*
- 14.35 The complement regulation • *Santiago Rodriguez de Cordoba*
- 14.55 *Host innate immune response against Mycobacterium tuberculosis*
Marco La Manna
- 15.15 The kallikrein kinin system (KKS) • *Davide Firinu*
- 15.35 Host-pathogen interaction: role of complement • *Pietro Accardo*
- 15.55 Q&A

16.10 Coffee break

II Session • COMPLEMENT IN HUMAN PATHOLOGY

Chairs: *Nadia Caccamo, Santiago Rodriguez de Cordoba*

- 16.25 Glomerulopathy and IgA nephropathy • *Adriano Montinaro*
- 16.45 Complement in vasculitis • *Elena Goicoechea de Jorge*
- 17.05 Atypical HUS • *Marina Noris*
- 17.25 Q&A

WORKSHOP ON CLINICAL RESEARCH*

Chairs: *Francesco Arcoleo, Mauro Cancian, Massimo Triggiani*

- 17.40 Our experience in history on complement system research • *Ajay Singh*
- 18.00 The way we work in clinical research • *Bill Sheridan*
- 18.20 Novel rapid test for detection of anti-FH auto-ab
Santiago Rodriguez de Cordoba
- 18.40 Discussion
- 19.00 First day conclusions • *Pietro Accardo, Francesco Arcoleo*

*Non CME workshop with the support of Alexion and BioCryst

Saturday, November 15th

III Session • COMPLEMENT IN HUMAN PATHOLOGY chapter two

Chairs: *Marina Noris, Paola Triggianese*

- 09.00 Complement in oncology • *Roberta Bulla*
- 09.20 Neuromyelitis optica spectrum disorder • *Renato Mantegazza*
- 09.40 Complement in systemic sclerosis • *Piero Ruscitti*
- 10.00 Complement and transplant rejection • *Anna Paola Mitterhofer*

IV Session • COMPLEMENT IN HUMAN PATHOLOGY chapter three

Chairs: *Luisa Brussino, Mauro Cancian, Andrea Zanichelli*

- 10.20 C1 esterase inhibitor deficiency and HAE • *Henriette Farkas*
- 10.40 Overview on complement deficiencies • *Riccardo Senter*
- 11.00 Complement in autoimmunity • *Paola Triggianese*
- 11.20 Q&A

11.35 Coffee break

V Session • COMPLEMENT IN HUMAN PATHOLOGY chapter four

Chairs: *Elena Goicoechea de Jorge, Maurizio Margaglione*

- 11.50 Paroxymal nocturnal haemoglobinuria • *Simona Raso*
- 12.10 Cold agglutinin disease • *Fabrizio Accardi*
- 12.30 Q&A
- 12.45 Take home message • *Francesco Arcoleo, Pietro Accardo*
- 13.00 End of the conference and *Light lunch*

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General information

Official language • English

Venue • NH Hotel Palermo - Foro Italico, 22/B - 90133 Palermo

CME • The Workshop has been included in the Italian National program of Continuing Medical Education (CME), with **8 CME credits** assigned for the profession of **Biologist, Psychologist and Medical Doctor** with the following specialties: Nephrologists, Molecular Biology, Genetics, Allergology, Internal Medicine, Haematology, Pathology, Pneumology.

To obtain the CME certificate participants must attend 90% of the webinar and correctly answer to 75% of the questions.

Venue: NH HOTEL PALERMO
Foro Italico Umberto I, 22/B • 90133 Palermo

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