

Crosstalk among the renin-angiotensin, complement, coagulation and kallicreinkininsystem 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 Kallicrein, 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 angioedema, paroxysmal nocturnal hemoglobinuria, hereditary atypical-uremic hemolytic syndrome, C3 glomerulopathies, approved for clinical treatment targeting coagulopathies, are 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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International Workshop Complement system: rare diseases and targeted therapies

Palermo, 14-15 November 2025

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 PID11.00-11.20 Pietro Accardo Lymphocyte subpopulation in PID

11.20-11.40 Marcello Ciaccio Ig and IgG subclasses in PID, serum electhrophoresis,

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 <i>Light lunch</i> |
|-------|--|
| 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 • <i>Pietro Accardo</i> |
| 15.55 | Q&A |
| 16.10 | Coffee break |
| | II Session • COMPLEMENT IN HUMAN PATHOLOGY Chairs: Nadia Caccamo, Santiago Rodriguez de Cordoba |
| 16.25 | Glonerulopathy and IgA nephropathy • Adriano Montinaro |
| 16.45 | Complement in vasculitis • Elena Goicoechea de Jorge |
| 17.05 | Atypical HUS • Marina Noris |
| 17.25 | Q&A |
| 3/4 | WORKSHOP ON CLINICAL RESEARCH* Chairs: Francesco Arcoleo, Mauro Cancian, Massimo Triggiani |
| 17.40 | Our experience in history on complement system research • Youssef Farag |
| 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 *Non CME workshop with the support of Alexion and BioCryst |
| 19.00 | First day conclusions • Pietro Accardo, Francesco Arcoleo |

| | 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 <i>Light lunch</i> |
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Saturday, November 15th

with the non conditional contribution of:

























making a difference



























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

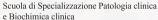
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