

Complement Regulation and Human Diseases

February 11-13, 2019

Venue: The Israel Institute for Advanced Studies, on the Edmond J. Safra
Campus, Givat Ram

Monday, February 11

8:15- **Registration**

9:15 Greetings: **Yitzhak Hen**, Director of the IIAS

9:20 Opening Remarks: **Dror Mevorach**, Hadassah-Hebrew University

Session 1: Complement activation and targeted treatment

9:30-10:15 Keynote Lecture: **Sir Peter Lachmann** (Cambridge, UK): **The Story of Factor I**

10:15-10:45 **Dan Ricklin** (University of Basel, Switzerland): Complement Activation and Regulation in 2019

10:45-11:00 **Jonathan Weyne** (Regeneron Pharmaceuticals, Inc. USA): A Randomized, Double-blind, Placebo-Controlled Phase 1 Study of the Pharmacokinetics and Pharmacodynamics of REGN3918, a Human Antibody Against Complement Factor C5, in Healthy Volunteers

11:00-11:30 *Coffee break*

Session 2: Complement mechanisms and activations, Ocular pathology

- 11:30-12:00 **Paul Morgan** (Cardiff University, UK): Understanding the Membrane Attack Complex
- 12:00-12:30 **Santiago Rodriguez de Cordoba** (Centro de Investigaciones Biologicas, Madrid, Spain): Genetic Mutations Leading to Complement Dysfunctions
- 12:30-13:00 **John Atkinson** (Washington University in St. Louis, USA): Complement System in Age-Related Macular Degeneration
- 13:00-13:15 **Mizhir Atallah** (Emek medical center and Technion): CD59 neutrophil expression regulates deposition of sublytic complement-membrane attack complex that protects from neutrophil necrosis
- 13:15-13:30 **Netanel Karbman**: Molecular pathogenesis of human CD59 deficiency
- 13:30-15:15 *Lunch Break* - and Poster view & Welcome Reception (*IIAS Lobby*)

Tuesday, February 12

Session 3: Complement, autoinflammation and autoimmunity

- 8:30-8:55 **Michael Holers** (University of Colorado, USA): Complement in Rheumatoid Arthritis: A Double Edge Sword
- 8:55-9:20 **Matthew Pickering** (Imperial College London, UK): Complement in Kidney Diseases
- 9:20-9:45 **Dror Mevorach** (Hadassah-Hebrew University): Membrane Bound Regulators and Novel Human Autoinflammatory diseases
- 9:45-10:00 **Ahmet Ozen** (Marmara University): CHAPLE disease uncovers the primary role of complement in a familial form of Waldmann's disease
- 10:00-10:15 **Alina Kurolap** (Rambam-Technion): Eculizumab is safe and effective as a long-term treatment for protein-losing enteropathy due to CD55-deficiency: insights from an 18-months-long follow-up
- 10:15-10:30 **Fadi Kharouf** (Hadassah-Hebrew University): The role of complement membrane regulatory proteins in the pathophysiology of dermatomyositis
- 10:30-11:00 *Coffee break*

Session 4: Complement interactions with hematopoietic cells

- 11:00-11:30 **Marina Botto** (Imperial College London, UK): Complement and Adaptive Immunity: The C1q Story
- 11:30-12:00 **Lucio Luzzatto** (Muhimbili University of Health and Allied Sciences, Tanzania): Complement and Aplastic Anemia: The PNH Story
- 12:00-12:30 **Wenchao Song** (University of Pennsylvania, USA): Complement and Thrombosis
- 12:45-13:00 **Regina Michelis** (Galilee Medical Center, Israel): Persistent complement activation is provoked by IgG-Aggregates in a subpopulation of Chronic Lymphocytic Leukemia Patients
- 13:00-13:15 **Adi Tabib** (Hadassah-Hebrew University): Pro-thrombotic mechanisms in CD59 deficiency
- 13:15-14:00 *Lunch break - IIAS lobby*
- 14:00 Transportation from the IIAS to the Old City
- 14:30-19:00 Tour in The Old City

Wednesday, February 13

Session 5: Complement, cancer, and additional diseases

- 8:30-8:55 **Jorg Kohl** (University of Lübeck, Germany): Complement in Gaucher Disease
- 8:55-9:20 **Zvi Fishelson** (Tel-Aviv University, Israel): Complement in Cancer, an Overview
- 9:20-9:45 **Lubka Roumenina** (INSERM Paris, France): Complement in the Tumour Environment
- 9:45-10:10 **Christine Skerka** (Jena University): Complement in atherosclerosis and Alzheimer's disease
- 10:10-10:25 **Mihali Jozsi** (Eotvos Lorand University, Budapest, Hungary): Identification and characterization of Complement factor H autoantibodies in neuromyelitis optica
- 10:25-10:40 **Hrishikesh Kulkarni** (Washington University in St. Louis, USA): Alteration in Local Complement Activation In First 24 h Post-lung Transplantation (ltx) Helps Identify Recipients Developing Primary Graft Dysfunction
- 10:40-11:10 *Coffee break*

Session 6: Complement and infections

11:10-11:40 **Peter Zipfel** (University of Jena, Germany): Complement and Infections

11:40-12:10 **Peter Garred** (University of Copenhagen, Denmark): The Lectin Pathway and Infections

12:10-12:25 **Afzal A Siddiqui** (Texas Tech University Health Sciences, USA): In vitro evaluation of antibody-dependent complement-mediated protection against *Schistosoma mansoni*

12:25-12:40 **Ekaterina S. Umnyakova** (St Petersburg University, Russia): Influence of antimicrobial peptide arenicin-1 on complement activation

12:40-13:00 **Closing remarks**

13:00-14:00 *Farewell Lunch - IIAS lobby*

The meeting starts on Monday 09:15, February 11, 2018 and ends on Wednesday, February 13, 14:00 pm.