



Systems Immunology

Monday, June 19, 2023
Boston Marriott Copley Place
Boston, Massachusetts

Course Directors:

Emanuele de Rinaldis, PhD
Sanofi

Magnus Fontes, PhD
Roche

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Federation of Clinical
Immunology Societies www.focisnet.org

Agenda



7:30-8:00 AM	Continental Breakfast
8:00-8:10 AM	Course Overview & Objectives – Emanuele de Rinaldis, PhD, Sanofi
8:10-9:00 AM	Introduction to Systems Immunology – Emanuele de Rinaldis, PhD, Sanofi
9:00-9:45 AM	Systems Immunology & Immune Oncology: A Data-Centric View – Magnus Fontes, PhD, Roche
9:45-10:00 AM	Break
10:00-11:30 AM	Deep Dive into Selected Scientific Case Studies: From Systems Immunology to Novel Therapeutic Insights – Emanuele de Rinaldis, PhD, Sanofi
11:30 AM-12:00 PM	Q&A / Panel Discussion
12:00-1:00 PM	Lunch
1:00-2:00 PM	Spatial Biology Methods and Analytics for Immunology and Oncology – Giorgio Gaglia, Ph, Sanofi
2:00-2:15 PM	Break
2:15-3:15 PM	Artificial Intelligence: A Primer for Immunologists – Shameer Khander, PhD, MPH, Sanofi
3:15-3:30 PM	Break
3:30-4:30 PM	Interactive Data Analysis Session – Magnus Fontes, PhD, Roche
4:30-5:00 PM	Wrap Up Notes & Final Remarks – Magnus Fontes, PhD, Roche

Overall Learning Objectives

At the conclusion of this course, attendees will be able to:

- Discuss the opportunities opened up by the use of genomics and proteomics technologies in modern immunology.
- Describe scientific reports on analysis of multidimensional data (NGS, microarray, mass/flow cytometry data analysis).
- Discuss basic principles, challenges and applications of bioinformatics data analysis.
- Describe the main components, tasks and challenges of genomics-based project in a grant proposal.
- Describe dangers connected with overfitting, multiple hypothesis testing and bias.

CME Information

In the past, FOCIS has made it possible for participants to obtain CME credit for attending the educational courses. In order to enable all those involved in the research and treatment of immune-mediated diseases to participate in the exchange of ideas that contribute to the forward motion of the field, FOCIS will not offer CME credit for any course or session at the FOCIS annual meeting. Certificates of attendance will be available upon request after completion of the course evaluations and post-test.

Faculty



**Magnus Fontes, PhD
Roche**



**Emanuele de Rinaldis, PhD
Sanofi**



**Giorgio Gaglia, PhD
Sanofi**



**Shameer Khander, PhD, MPH
Sanofi**

Faculty Disclosure

FOCIS requires resolution of all faculty conflicts of interest to ensure CME activities are free of commercial bias.

The following presenters have indicated a relationship in which the context of their presentations could be perceived by some as a real or apparent conflict of interest, but do not consider that it will influence their presentations. If a presenter is not listed, he or she had no relationship to disclose. The number following each company name represents the specific relationship from the key below.

Key: 1 – Consultant / Advisor; 2 – Employee; 3 – Lecture Fees; 4 – Equity / Owner; 5 – Patents/Royalty; 6 – Grant Support

Emanuele de Rinaldis: Sanofi²

Magnus Fontes: Qlucore^{5, 4}, Roche²

Giorgio Gaglia: Sanofi²

Shameer Khander: Sanofi²



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