

ORGANIZED BY



FONDAZIONE
INTERNAZIONALE
MENARINI

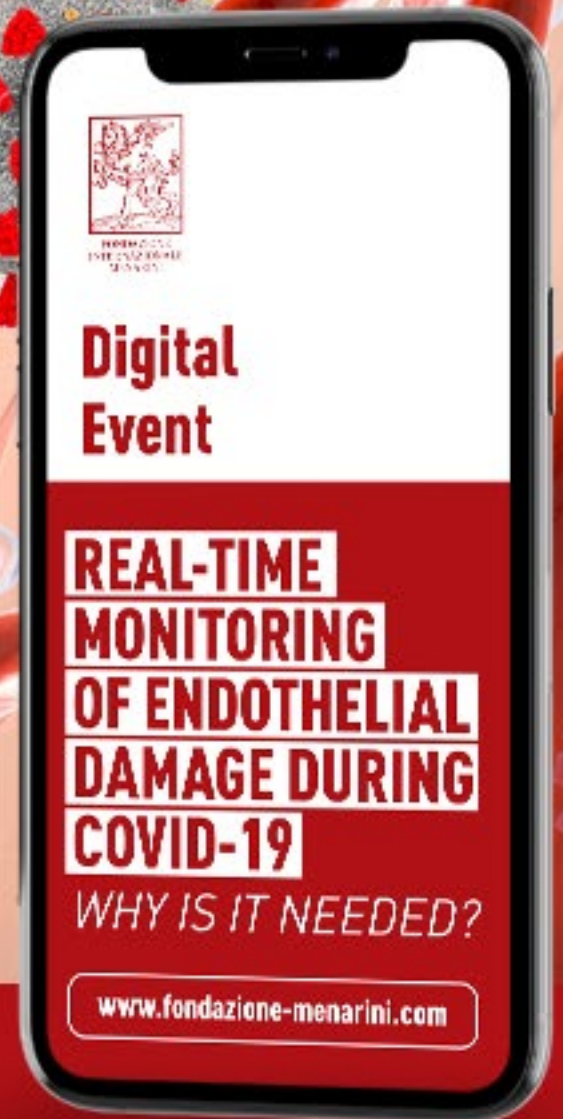
September 29th 2020

REAL-TIME MONITORING OF ENDOTHELIAL DAMAGE DURING COVID-19

Why is it needed?

Chairmen:

Massimo Galli and **Gaetano Santulli**



INTRODUCTION

Coronavirus disease (COVID-19) represents a public health crisis of global proportions. Caused by the severe acute respiratory syndrome corona virus 2 (SARS-CoV-2), COVID-19 was first announced in December 2019 in Wuhan, the capital of China's Hubei province. The symptoms most commonly reported by COVID-19 patients include cough, fever, and shortness of breath. Other major clinical events generally observed in COVID-19 patients include hypertension, thromboembolism, kidney disease, diabetes mellitus, cerebrovascular and neurologic disorders. These systemic manifestations strongly suggest that the virus is targeting the endothelium. The recent cases of Kawasaki-like “multisystem inflammatory syndrome” reported especially in young COVID-19 patients support our view of a fundamental role of the endothelium in the pathogenesis of COVID-19.

To access host cells, SARS-CoV-2 uses a surface glycoprotein known as spike; ACE2 has been shown to be a crucial co-receptor for coronavirus entry. Other receptors on the surface of human cells have been suggested to mediate the entry of SARS-CoV-2, including transmembrane serine protease 2 (TMPRSS2), sialic acid receptors, and extracellular matrix metalloproteinase inducer (CD147, also known as basigin). Additionally, cathepsin B and L have been shown to be critical entry factors in the pathogenesis of COVID-19. Intriguingly, all these factors involved in the entry of SARS-CoV-2 in the host cell are expressed by endothelial cells (Sardu et al. J. Clin. Med. 2020, 9(5), 1417; doi: 10.3390/jcm9051417).

In this meeting, we will discuss the most recent advances in the research exploring the mechanistic phenomena linking endothelial (dys)function to COVID-19 outcome.

M. Galli & G. Santulli
Chairmen



FONDAZIONE
INTERNAZIONALE
MENARINI

UNDER THE PATRONAGE OF



CHAIRMEN

Massimo Galli

(Dipartimento di Scienze Biomediche e Cliniche “L. Sacco”, Milan, Italy)

Gaetano Santulli

(Albert Einstein College of Medicine, New York City, NY and University “Federico II”, ITME, Naples, Italy)

ORGANIZED BY

FONDAZIONE INTERNAZIONALE MENARINI

Centro Direzionale Milanofiori

I-20089 Rozzano (Milan, Italy)

Edificio L – Strada 6

Phone: +39 02 55308110

Fax: +39 02 55305739

E-mail: milan@fondazione-menarini.it

Website: \\www.fondazione-menarini.it

ORGANIZING SECRETARIAT

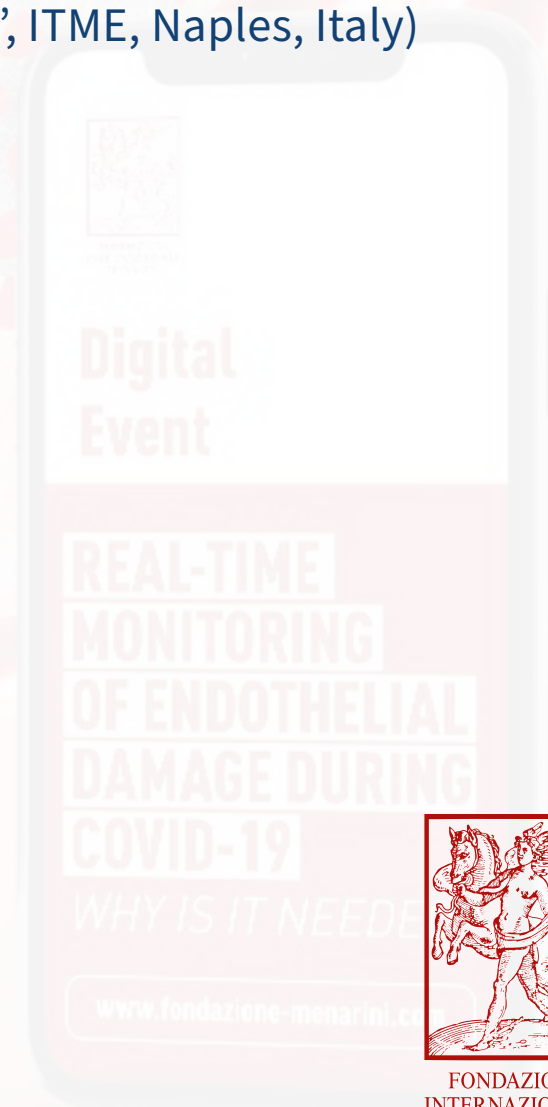
TARGET MOTIVATION SRL

Via Torino 151/E – 30172 Mestre (Venezia), Italy

Phone +39 041 2392670 - Fax +39 041 2392600

congress@targetmotivation.it

www.targetmotivation.it/it/



FONDAZIONE
INTERNAZIONALE
MENARINI

TUESDAY, 29TH SEPTEMBER, AFTERNOON

SESSION I

Chairmen:	M. Galli (Milan, IT) G. Santulli (New York, NY, US / Naples, IT)
04.30 p.m. 04.50 p.m.	Z. Varga (Zurich, CH) COVID19, morphology, organ involvement and endothelial damage
04.50 p.m. 05.00 p.m.	Q&A
05.00 p.m. 05.20 p.m.	P. Brodin (Stockholm, SE) COVID19 and endothelial dysfunctions
05.20 p.m. 05.30 p.m.	Q&A
05.30 p.m. 05.50 p.m.	C. Almici (Brescia, IT) Circulating Endothelial Cells as a biomarker of endothelial damage
05.50 p.m. 06.00 p.m.	Q&A
06.00 p.m. 06.20 p.m.	G. Santulli (New York, NY, US / Naples, IT) Endothelial damage and clinical manifestations: understanding the pathophysiology of the disease
06.20 p.m. 06.30 p.m.	Q&A
06.30 p.m. 06.50 p.m.	P. Libby (Boston, US) Endothelial damage and clinical manifestations: COVID-19 Clinical Manifestations
06.50 p.m. 07.00 p.m.	Q&A
07.00 p.m. 07.20 p.m.	M. Ackermann (Mainz, DE) Vascular inflammation and Intussusceptive Angiogenesis in COVID-19
07.20 p.m. 07.30 p.m.	Q&A
07.30 p.m. 07.50 p.m.	A. Riva (Milan, IT) Importance of real-time monitoring of endothelial damage during COVID19
07.50 p.m. 08.00 p.m.	Q&A
08.00 p.m.	Conclusive remarks and take-home messages

FACULTY LIST

Maximilian Ackermann

Institut für Funktionelle und Klinische Anatomie
Universitätsmedizin
der Johannes Gutenberg-Universität Mainz
Mainz, Germany

Camillo Almici

Department of Trasfusion Medicine,
ASST Spedali Civili
Brescia, Italy

Petter Brodin

Associate professor of Immunology
Science for Life Laboratory
Dept of Women's and Children's Health
Karolinska Institutet
Stockholm, SE

Massimo Galli

Dipartimento di Scienze Biomediche
e Cliniche "L. Sacco"
Milan, Italy

Peter Libby

Division of Cardiovascular Medicine, Department
of Medicine, Brigham and Women's Hospital,
Harvard Medical School, Boston, MA, US
Division of Cardiovascular Medicine,
Department of Medicine,
Brigham and Women's Hospital,
Harvard Medical School, 77 Avenue Louis Pasteur
Boston, US

Agostino Riva

Infectious disease "L. Sacco"
Milan, Italy

Gaetano Santulli

Albert Einstein College of Medicine
New York City, NY, US
and University "Federico II", ITME
Naples, Italy

Zsuzsanna Varga

Department of Pathology
and Molecular Pathology,
University Hospital Zurich
Zurich, Switzerland



FONDAZIONE
INTERNAZIONALE
MENARINI

GENERAL INFORMATION

WEBINAR ONLINE ON:

29th September 2020

4.30 – 7.30 pm

OFFICIAL LANGUAGE

The official language of the Webinar will be English.

REGISTRATION

The Webinar is free to attend.

Please confirm the participation on Fondazione Menarini's website, following the direct link
<https://www.en.fondazione-menarini.it/Home/Events/Diagnostics-and-Covid-19/739/SEPTEMBER-29th-2020>

We kindly recommend to proceed and complete your subscription 15 minutes before the webinar starts.

ORGANIZING SECRETARIAT

TARGET MOTIVATION SRL

Via Torino 151/E – 30172 Mestre (Venezia), Italy

Phone +39 041 2392670 - Fax +39 041 2392600

congress@targetmotivation.it - www.targetmotivationpharma.com

For more information, please scan the QR Code:



FONDAZIONE
INTERNAZIONALE
MENARINI

ORGANIZED BY



FONDAZIONE
INTERNAZIONALE
MENARINI

Scan the QR code and
immediately download
the new APP.



Fondazione
Internazionale Menarini
is also on [LinkedIn](#)



**Digital
Event**

**REAL-TIME
MONITORING
OF ENDOTHELIAL
DAMAGE DURING
COVID-19**

WHY IS IT NEEDED?

www.fondazione-menarini.com

ORGANIZED BY



FONDAZIONE
INTERNAZIONALE
MENARINI

October 5th, 2020

> Digital Event on:

IN VITRO DIAGNOSTICS AND COVID-19

Chairman:
Prof. M. Sanguinetti



UNDER THE PATRONAGE OF



SIMIT
Società Italiana
di Malattie Infettive
e Tropicali

CHAIRMAN

Prof. M. Sanguinetti

Department of Laboratory and Infectious Diseases Sciences
Fondazione Policlinico Universitario A. Gemelli IRCCS
Rome, Italy
President of ECCMID

ORGANIZED BY

FONDAZIONE INTERNAZIONALE MENARINI

Centro Direzionale Milanofiori
I-20089 Rozzano (Milan, Italy)
Edificio L – Strada 6
Phone: +39 02 55308110
Fax: +39 02 55305739

E-mail: milan@fondazione-menarini.it

Website: www.fondazione-menarini.it

ORGANIZING SECRETARIAT

TARGET MOTIVATION SRL

Via Torino 151/E – 30172 Mestre (Venezia), Italy
Phone +39 041 2392670 - Fax +39 041 2392600
congress@targetmotivation.it
www.targetmotivation.it/it/



FONDAZIONE
INTERNAZIONALE
MENARINI

SESSION I	
Chairman:	M. Sanguinetti (Rome, IT)
03.45 p.m. 04.00 p.m.	Welcome Addresses and Introduction Maurizio Sanguinetti President of the Virtual Meeting Giuseppe Caracciolo Fondazione Internazionale Menarini (Florence, IT)
04.00 p.m. 04.15 p.m.	M. Ciccozzi (Rome, IT) Focus on the Epidemiology of SARS-CoV-2
04.15 p.m. 04.25 p.m.	Q&A
04.25 p.m. 04.40 p.m.	P. Roncada (Catanzaro, IT) Computational immune proteomics approach to target COVID-19
04.40 p.m. 04.50 p.m.	Q&A
04.50 p.m. 05.05 p.m.	G. Greub (Lausanne, CH) Molecular diagnostics of COVID-19: homemade or commercial methods?
05.05 p.m. 05.15 p.m.	Q&A
05.15 p.m. 05.30 p.m.	R. Canton (Madrid, ES) Antigenic tests versus molecular tests for the SARS-CoV-2 detection: different approaches for different clinical targets
05.30 p.m. 05.40 p.m.	Q&A
05.40 p.m. 05.55 p.m.	C. F. Perno (Milan, IT) Traditional vs. Fast PCR: the advent of POCT in Molecular Diagnostics
05.55 p.m. 06.05 p.m.	Q&A
06.05 p.m. 06.20 p.m.	M. Antonelli (Rome, IT) Managing Bacterial Co-infections in Covid-19 ICU patients
06.20 p.m. 06.30 p.m.	Q&A
06.30 p.m. 06.45 p.m.	S. Hober (Stockholm, SE) Development and usage of a high-performing diagnostic test of SARS-CoV-2 antibodies
06.45 p.m. 06.55 p.m.	Q&A
06.55 p.m. 07.10 p.m.	M. Sanguinetti (Rome, IT) Clinical applications of IgM-IgG antibody tests for SARS-CoV-2 infection diagnosis: rapid vs. laboratory based solutions
07.10 p.m. 07.20 p.m.	Q&A
07.20 p.m. 07.35 p.m.	C. C. Quattrocchi (Rome, IT) A deep-learning algorithm in the diagnosis of Covid-19
07.35 p.m. 07.45 p.m.	Q&A
07.45 p.m.	FINAL DISCUSSION AND CLOSING REMARKS

FACULTY LIST

Massimo Antonelli

Department of Emergency
Fondazione Policlinico Universitario
A. Gemelli IRCCS
Rome, Italy

Rafael Canton

Hospital Universitario Ramón y Cajal
Madrid, Spain

Massimo Ciccozzi

Molecular Epidemiologist
University Campus Biomedico
Rome, Italy

Gilbert Greub

Institute of Microbiology
Lausanne University Hospital
and University of Lausanne
Lausanne, Switzerland

Sophia Hober

Molecular Biotechnology, KTH University
Stockholm, Sweden

Carlo Federico Perno

Microbiology and Diagnostic Immunology
Children Hospital Bambino Gesù'
Rome, Italy

Carlo Cosimo Quattrocchi

Diagnostic imaging
Università Campus Bio-Medico di Roma
Rome, Italy

Maurizio Sanguinetti

Department of Laboratory
and Infectious Diseases Sciences
Fondazione Policlinico Universitario
A. Gemelli IRCCS
Rome, Italy
President of ECCMID

Paola Roncada

Department of Health Sciences
University 'Magna Græcia' of Catanzaro,
Catanzaro, Italy



FONDAZIONE
INTERNAZIONALE
MENARINI

GENERAL INFORMATION

WEBINAR ONLINE ON:

5th October 2020

04.00 – 07.45 pm

OFFICIAL LANGUAGE

The official language of the Webinar will be English.

REGISTRATION

The webinar is free to attend.

Please confirm your participation on Fondazione Menarini's website, following the direct link
<https://www.en.fondazione-menarini.it/Home/Events/Diagnostics-and-Covid-19/739/OCTOBER-5th-2020>

We kindly recommend to proceed and complete your subscription 15 minutes before the webinar starts.

ORGANIZING SECRETARIAT

TARGET MOTIVATION SRL

Via Torino 151/E – 30172 Mestre (Venezia), Italy

Phone +39 041 2392670 - Fax +39 041 2392600

congress@targetmotivation.it - www.targetmotivationpharma.com

For more information and for subscription, please scan the QR Code:



FONDAZIONE
INTERNAZIONALE
MENARINI

ORGANIZED BY



FONDAZIONE
INTERNAZIONALE
MENARINI

Scan the QR code and
immediately download
the new APP.



Fondazione
Internazionale Menarini
is also on [LinkedIn](#)