

Scritto da Red.

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Wednesday
March 17, 2021
15:00 (GMT+1)

**Computational and
Quantitative Biology
Lecture Series**

The seminar will be held on line using TEAMS. Please register at <https://cqb.dieti.unina.it/>
You will receive an invite with the link to the seminar.

Innate Immunity and Inflammation: from Cancer to COVID-19

The immune system and the central nervous system are the two most complex set of cells, connections and mediators in our body. Alterations of immunity and inflammation represent a melanorative of modern medicine, spanning from infectious diseases to cardiovascular pathology to cancer. Inflammatory cells and mediators are a key component of the tumor microenvironment. A change in paradigm and dissection of accelerators and brakes of immunity have spearheaded the birth of cancer immunotherapy. COVID-19 has highlighted how little we know of immunity to microbial challenges. As for cancer, a better understanding of the interaction of immunity with SARS-CoV-2 is likely to pave the way to new diagnostic and therapeutic tools.

Alberto Mantovani MD, is Emeritus Professor of Pathology at the Humanitas University in Milan, Scientific Director of the Istituto Clinico Humanitas and Chair of Inflammation and Therapeutic Innovation, William Harvey Research Institute, Queen Mary University, London, UK. His attention has been focused on molecular mechanisms of innate immunity and inflammation and on the role in the tumor microenvironment and cancer progression of tumor-associated macrophages (TAM). He has contributed to the advancement of knowledge in the field of immunology formulating new paradigms and identifying new molecules and functions. More recently he focused on COVID-19, contributing to the identification of genetic associations and of a novel severity biomarker.

For his research activity he has received several national and international awards, such as the Triennial OEC Award from the Organization of the European Cancer Institutes, the Robert Koch Award for his contribution to tumor immunology and immunotherapy, the American Italian Cancer Foundation (AICF) Prize for Excellence in Medicine and, most recent, the American Association for Cancer Research International Pazzeller Award for Extraordinary Achievement in Cancer Research. The broad impact of his contributions is testified by citations. As of January 2021 he has over 150,000 citations and an H-index of 172 (Scopus).

Prof. Alberto Mantovani
Scientific Director, Istituto Clinico
Humanitas

With the contribution of:

Hosted by:

biogem CQB DIETI UNINA UNIVERSITÀ FEDERICA II

ARIANO IRPINO – Una migliore comprensione dei meccanismi di interazione del sistema immunitario con Sars-CoV-2 potrebbe aprire la strada a nuovi strumenti diagnostici e terapeutici, proprio come è già parzialmente avvenuto per i tumori. Da questo auspicio partirà il direttore del Centro clinico Humanitas, Alberto Mantovani, in occasione del seminario Unina, sponsorizzato da Biogem.

Al centro dell'intervento, in particolare, le alterazioni dell'immunità e dell'infiammazione, una grande sfida della medicina moderna, che spazia dalle malattie infettive alla patologia cardiovascolare, fino al cancro. Il sistema immunitario e il sistema nervoso centrale costituiscono, infatti, nel loro complesso, l'insieme più intricato di cellule e loro connessioni del nostro corpo. E il seminario, previsto ovviamente in streaming, mostrerà come la dissezione degli acceleratori e dei freni dell'immunità può rappresentare un cambiamento di paradigma, avendo già guidato la nascita della immunoterapia contro il cancro.