



Online workshop

The role of non ionizing and ionizing radiation against COVID-19

9 Friday
July 2021

CEST Time: 16.30-20.00
Athens Time: 17.30-21.00

This course has been accredited by **EBAMP** as CPD event for Medical Physicists at EQF Level 7 and awarded **11 CPD** credit points

Link: <https://register.gotowebinar.com/register/3025245086797773838>



The role of non ionizing and ionizing radiation against COVID-19

Organizing Committee :

P. Platoni, Assist. Professor, Medical Physics, 2nd Dept. of Radiology, Medical School, National and Kapodistrian University of Athens

E. Efstathopoulos, Professor, Medical Physics, 2nd Dept. of Radiology, Medical School, National and Kapodistrian University of Athens

I. Seimenis, Professor, Medical Physics, Medical Physics Laboratory, Medical School, National and Kapodistrian University of Athens

E. Koutsouveli, Medical Physics Expert, Medical Physics Department, HYGEIA Hospital

16.30-16.40 CEST Greetings

T. Maris, Professor of Medical Physics MRI Unit, University Hospital of Heraklion, University of Crete, HAMP President

E. Efstathopoulos, Professor, Medical Physics, 2nd Dept. of Radiology, Medical School, National and Kapodistrian University of Athens

P. Gilligan, UCD Associate Clinical Professor, UCD School of Medicine, EFOMP President

16:40-17:20 CEST Session 1: SARS – CoV-2 virus

Moderators : **C. Gogos**, Professor, Medicine / Infectious Diseases, Department of Medicine, University of Patras

E. Efstathopoulos, Professor, Medical Physics, 2nd Dept. of Radiology, Medical School, National and Kapodistrian University of Athens

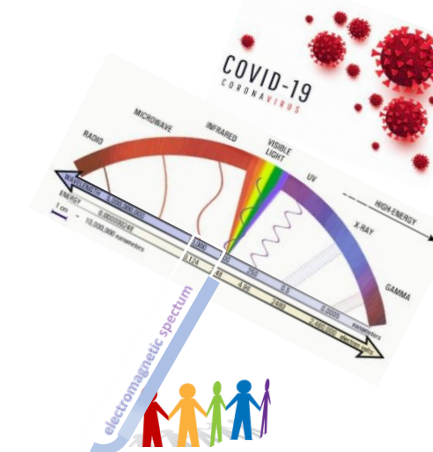
- **Covid-19: The nanovaccines challenge (15 min)**

Costas Demetzos, Professor, Pharmaceutical Nanotechnology, Department of Pharmacy, Section of Pharmaceutical Technology, National & Kapodistrian University of Athens

- **SARS-CoV-2 and vaccines platforms (15 min)**

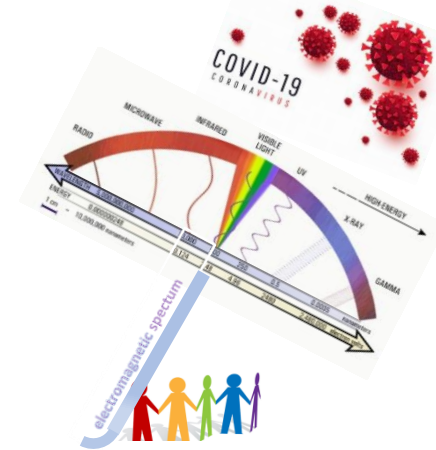
Maria Gazouli, Professor, Biology – Nanomedicine, Department of Basic Medical Sciences, National & Kapodistrian University of Athens

- Q&A live session (10 min)



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17:20-18:35 CEST Session 2: Non Ionizing Radiation for Prevention against SARS – CoV-2 virus

Moderators: T. Samaras, Professor, Department of Physics, Aristotle University of Thessaloniki

C. Koutsojannis, Professor, Medical Physics and Electrophysiology, Department of Physiotherapy, University of Patras

- **Types of UV Systems and How They Work, What are the different types of lamps that can produce UVC radiation? (15 min)**

Maria Kouri, Physicist, 2nd Dept. of Radiology, Medical School, National and Kapodistrian University of Athens

- **Application of UV systems against the SARS-CoV-2 coronavirus (20 min)**

Constantinos Koutsojannis, Professor, Medical Physics and Electrophysiology, Department of Physiotherapy, University of Patras

- **How to use Ultraviolet light (UVC) to fight COVID-19 effectively in dental clinics (15 min)**

Ioannis Tzoutzas, Professor, School of Dentistry, National & Kapodistrian University of Athens, Chair of the Infection Control Committee

- **Safety and Legislation for the use of UV (15 min)**

Aspasia Petri, Senior Researcher, Non Ionizing Radiation Office, Greek Atomic Energy Commission (EEAE)

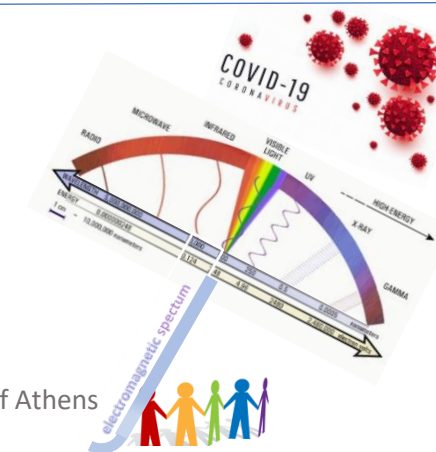
- Q&A live session (10 min)

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18:35-20:00 CEST Session 3: Ionizing Radiation for Diagnosis and Treatment against COVID-19 disease

Moderators: **K. Theodorou**, Professor, Medical Physics and Informatics, Department of Medicine, University of Thessaly
D. Filippiadis, Assoc. Professor, Diagnostic and Interventional Radiology, 2nd Dept. of Radiology, Medical School, National and Kapodistrian University of Athens
I. Georgakopoulos, Assist. Professor, Radiation Oncology, 1st Dept. of Radiology, Medical School, National and Kapodistrian University of Athens



- **CT protocols for COVID-19 diagnosis / evaluation (15 min)**

Nikolaos Arkoudis, Radiology Resident, 2nd Dept. of Radiology, “Attikon” University Hospital, National and Kapodistrian University of Athens

- **Chest CT practice and protocols for COVID-19 from radiation dose management perspective (15 min)**

Stamatis Rallis, Medical Physicist, 2nd Dept. of Radiology, Medical School, National and Kapodistrian University of Athens

- **The radiobiological basis of using low doses of ionizing radiation for treating COVID-19 (15 min)**

Alexandros Georgakilas, Professor, Applied Physics Department, National Technical University of Athens

- **Low-Dose Radiation Therapy for COVID-19: Promises and Pitfalls (15 min)**

Emmanuil Maragkoudakis, Radiation Oncology Resident, 2nd Dept. of Radiology, “Attikon” University Hospital, National and Kapodistrian University of Athens

- **Cancer Risks Due to Whole Lungs Low Dose Radiotherapy With Different Techniques for Treating COVID-19 Pneumonia (15 min)**

Marina Chalkia, Medical Physicist, 2nd Dept. of Radiology, “Attikon” University Hospital, National and Kapodistrian University of Athens

- Q&A live session (10 min)