

Giovedì 20 Maggio 2021, Ore: 9.00-10.30
Sulla piattaforma Microsoft TEAMS,
TEAM: "Seminari di Elettromagnetismo per Ing. Biomedica LM"
Codice di accesso: wyesrid.



Dott.ssa Emanuela Signori

Consiglio Nazionale delle Ricerche

Istituto di Farmacologia Traslazionale (IFT)

lapmos.ift.cnr.it (Company Website)

Strategie terapeutiche innovative in campo immunologico: l'elettroporazione per la veicolazione di molecole farmacologiche

Abstract: Electroporation (EP), also named electropermeabilization, is an efficient and safe technique which is based on voltage pulses of sufficient strength and duration to generate transient membrane permeabilization/poration, thus allowing to introduce genetic material (gene electrotransfer-GET) or therapeutic drugs (electrochemotherapy-ECT) into target cells. Due to EP further ability to induce per se an immune response, it can be applied for genetic

immunization/vaccination both in cancer and infectious diseases, or to deliver chemotherapeutics into tumors inducing immunological cancer cells death.

The lecture will give a brief overview on immune response mechanisms and a focus on GET and ECT protocols on-going. Advantages, weakness and possible optimizations of drug delivery based on EP will be also discussed.



SEMINAR Announcement

CV: Emanuela Signori, Phd, leads the Laboratory of Molecular Pathology and Experimental Oncology at the National Research Council (CNR)-Institute of Translational Pharmacology- and is Acting Professor of General Pathology at University Campus Bio-Medico of Rome, Dept Faculty of Medicine. She received her PhD in Experimental Oncology and Molecular Pathology. Her major research interest is in cancer immunotherapy for the development of preclinical protocols of DNA immunization administered by electrotransfer.

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