

Summer School

**Pisa, 28th June /
1st July 2021**
4 Days

NANOMEDICINE FOR GENE THERAPY

For further informations:
info@i-geneproject.eu

DAY 1: MONDAY, 28th JUNE

Where: On-line

9.00 - 11.00	"Introduction to nanomedicine for gene therapy" Prof. Vittoria Raffa , University of Pisa (IT), Department of Biology
12.30 - 13.00	"CRISPR/Cas9 technique: to precise gene editing and beyond!" Part 1 Dr. Chiara Gabellini , University of Pisa (IT), Department of Biology
13.00 - 14.00	Lunch break
14.00 - 16.00	"CRISPR/Cas9 technique: to precise gene editing and beyond!" Part 2 Dr. Chiara Gabellini , University of Pisa (IT), Department of Biology
16.00 - 18.00	LAB ACTIVITY – VIMEO/VIDEO/JoVE "Take the tank: a 'walk-through' in zebrafish research as model system for genome editing" Dr. Chiara Gabellini , University of Pisa (IT), Department of Biology

DAY 2: TUESDAY, 29th JUNE

Where: On-line

9.00 - 11.00	"The roadmap of gene therapy: present and future perspective" Prof. Mauro Pistello , University of Pisa (IT), Department of Medicine
11.00 - 13.00	"Gene editing of human cells by CRISPR-Cas9" Dr. Michele Lai , University of Pisa (IT), Department of Medicine
13.00 - 14.00	Lunch break
14.00 - 16.00	"T cell exhaustion in cancer and chronic infection" Prof. Giulia Freer , University of Pisa (IT), Department of Medicine
16.00 - 17.00	"An in vivo application of gene editing: the murine model of melanoma" Dr. Paola Quaranta , University of Pisa (IT), Department of Medicine

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DAY 3: WEDNESDAY, 30th JUNE c/o Nanomedicine & Nanophotonics

Where: On-line

9.00 - 10.00	"Gold nanoparticles as drug delivery carriers" Dr. Dariusz Witt , Prochimia Surfaces (PL)
10.00 - 11.00	"Plasmonic nanostructures for biophotonic" Dr. Francesco Tantussi and Dr. Francesco De Angelis , Istituto Italiano di Tecnologia – IIT (IT)
11.00 - 12.00	"Introduction to photonics: how to control laser light" Dr. Derya Atac , Lionix (NL)
12.00 - 13.00	Open discussion - All
13.00 - 14.00	Lunch break
14.00 - 16.00	LAB ACTIVITY – VIMEO/VIDEO/JoVE "Synthesis of nanoformulations" by Raffa's lab Evaluation of the acquired skills

PUBLIC EVENT

DAY 4: THURSDAY, 1st JULY ROUND TABLE on "Ethical and legal issues of gene therapy and genome editing"

Where: On-line [Click here](#)

9.00 - 10.00	"Human Germline Gene Editing: Who Should Decide? What Should Be Decided?" Prof. Vincente Bellver , director of the Department of Philosophy of Law, Ethics and Political Philosophy of the University of Valencia (ES)
10.00 - 11.00	"Genetics vs. Lifestyle. An approach to stop melanoma" Dr. Claudia Piazza Cidonio is a co-founder and director of MIO - Melanoma Italia onlus (IT)
11.00 - 12.00	"Modern Evidence-based Healthcare" Sir. Prof. Alfred Cuschieri , Emeritus Professor, University of Dundee (UK)
12.00 - 13.00	"The Problem of Accountability and Trust" Prof. Valentina Calderai , University of Pisa (IT), Department of Law
13.00 - 14.00	Lunch break
14.00 - 15.00	Introduction to "I-GENE project" Prof. Vittoria Raffa , University of Pisa (IT), Department of Biology
15.00 - 17.00	Round Table / Open discussion - All