

# Summer School

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

## NANOMEDICINE FOR GENE THERAPY

For further informations:  
[info@i-geneproject.eu](mailto:info@i-geneproject.eu)

### DAY 1: MONDAY, 28<sup>th</sup> JUNE

#### Where: On-line

9.00 - 11.00	"Introduction to nanomedicine for gene therapy" <b>Prof. Vittoria Raffa</b> , University of Pisa (IT), Department of Biology
12.30 - 13.00	"CRISPR/Cas9 technique: to precise gene editing and beyond!" Part 1 <b>Dr. Chiara Gabellini</b> , 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 <b>Dr. Chiara Gabellini</b> , 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" <b>Dr. Chiara Gabellini</b> , University of Pisa (IT), Department of Biology

### DAY 2: TUESDAY, 29<sup>th</sup> JUNE

#### Where: On-line

9.00 - 11.00	"The roadmap of gene therapy: present and future perspective" <b>Prof. Mauro Pistello</b> , University of Pisa (IT), Department of Medicine
11.00 - 13.00	"Gene editing of human cells by CRISPR-Cas9" <b>Dr. Michele Lai</b> , 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" <b>Prof. Giulia Freer</b> , University of Pisa (IT), Department of Medicine
16.00 - 17.00	"An in vivo application of gene editing: the murine model of melanoma" <b>Dr. Paola Quaranta</b> , University of Pisa (IT), Department of Medicine

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### DAY 3: WEDNESDAY, 30<sup>th</sup> JUNE c/o Nanomedicine & Nanophotonics

#### Where: On-line

9.00 - 10.00	"Gold nanoparticles as drug delivery carriers" <b>Dr. Dariusz Witt</b> , Prochimia Surfaces (PL)
10.00 - 11.00	"Plasmonic nanostructures for biophotonic" <b>Dr. Francesco Tantussi</b> and <b>Dr. Francesco De Angelis</b> , Istituto Italiano di Tecnologia – IIT (IT)
11.00 - 12.00	"Introduction to photonics: how to control laser light" <b>Dr. Derya Atac</b> , 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, 1<sup>st</sup> 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?" <b>Prof. Vincente Bellver</b> , 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" <b>Dr. Claudia Piazza Cidonio</b> is a co-founder and director of MIO - Melanoma Italia onlus (IT)
11.00 - 12.00	"Modern Evidence-based Healthcare" <b>Sir. Prof. Alfred Cuschieri</b> , Emeritus Professor, University of Dundee (UK)
12.00 - 13.00	"The Problem of Accountability and Trust" <b>Prof. Valentina Calderai</b> , University of Pisa (IT), Department of Law
13.00 - 14.00	Lunch break
14.00 - 15.00	Introduction to "I-GENE project" <b>Prof. Vittoria Raffa</b> , University of Pisa (IT), Department of Biology
15.00 - 17.00	Round Table / Open discussion - All