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Dear Readers,

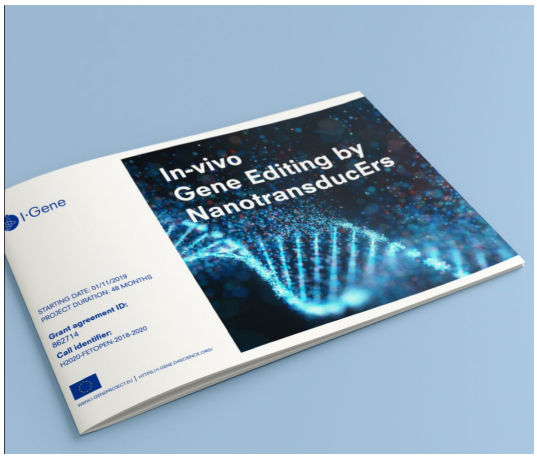
The I-GENE team is pleased to welcome you to the 8th issue of the I-GENE newsletter. I am proud to say that the team realized some major achievements during the last months. We have optimized the chemistry of our nanoformulation in terms of stability and ability to spontaneously cross the membranes of human melanoma cells to edit them. Our proprietary formulation has been patented on August 28 to protect the project IPR. We have also launched the I-GeneMatcher software, please, try this free on-line tool!
Please, stay up to date on the I-GENE project by reading this and next project newsletters!

Prof. Vittoria Raffa
I-GENE coordinator

ABOUT I-GENE PROJECT

The objective of I-GENE project is to re-design the story of genome editing by developing a photo-switchable system. The I-GENE project is founded by EU (grant agreement ID: 862714) under the FET-OPEN scheme of HORIZON 2020, fostering novel ideas for radically new technologies.

Please follow our social media and website to get updates on the I-GENE mission and research activities.
https://i-geneproject.eu/project/
https://www.facebook.com/igeneproject/

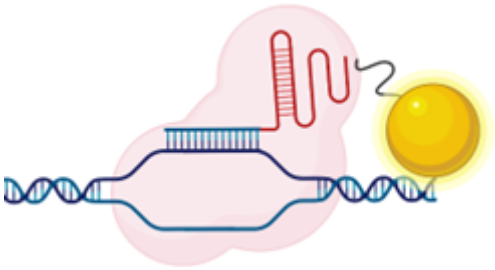


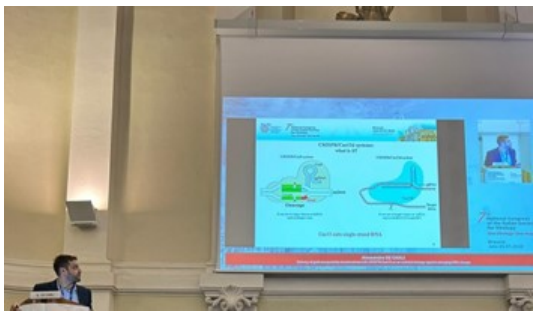
I-GeneMatcher: A free online tool to analyse your data of gRNAs

exploiting restriction enzymes? Here is the tool for you!
I-GeneMatcher is a tool to analyse your data for selecting gRNAs in pair or gRNAs in proximity to a desired restriction enzyme. It uses imported data from known softwares for designing gRNAs, and provides a variety of options for further data analysis.
Learn more about the I-GeneMatcher tool here https://i-gene.d4science.org/group/i-genepublic/i-gene-tool.

A new patent pending on I-GENE technology

We have optimized the chemistry of I-GENE nanoformulation in terms of stability and ability to spontaneously cross the membranes of human melanoma cells to edit them. Our proprietary formulation has been patented on August 28 to protect the project IP. The title of the patent is “New gold nanoparticles, functionalized with the Cas enzyme, compositions and uses”.





TAKE AIM AND FIRE ON VIRUS

Alessandro de Carli, a young I-GENE scientist, was in Brescia in June during the 7th Congress of the Italian Society for Virology (ISV). Here, he explained how our nanoformulation can deliver the CRISPR-Cas13d complex into infected cells, destroying the RNA viral genomes. This approach can reduce Zika virus and SARS-CoV-2 infections. It was a very enjoyable and insightful experience.

Come to I-GENeer the future geneticists –

PISA BRIGHT NIGHT 2023

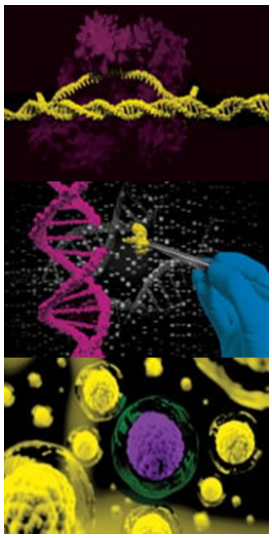
Save the date, 29 September 2023 in Pisa, Italy.
The European night of researchers providesprovide the chance to everyone to learn what is new in science and have fun!
Our team has prepared various activities to amuse everyone, from kids, adolescents to adults! Come to find our bench and learn about genetics, gene editing and gene therapy. We are waiting for you!

Where to meet I-Gene team members?

The EMBO Workshop "CRISPR-Cas: From biology to therapeutic applications" is the right forum

Our team is happy to attend the meeting "CRISPR-Cas: From biology to therapeutic applications" that will take place on 07 – 10 November 2023 in Seville, Spain.
Are you interested in photo-switchable systems of the Cas9 protein for induction of DNA double-strand breaks? We are happy to show you our results and talk with you!

I-GENE conference, a satellite event at "Advanced Therapies 2024"



The I-GENE team is preparing the workshop named "Photo-switchable editing tools: Towards safe editing & *in vivo* gene therapy" which will be part of the Advanced Therapies Congress that will take place from the 19-20 March in London https://www.terrapinn.com/congress/advanced-therapies/index.stm.
Don't miss our talks on the 19th March 2024 at 11 am:

- Be smarter than a Cas9 protein (Speaker: Prof. Vittoria Raffa, Università di Pisa)
- I-GEN-eering a photo-switchable vector for gene editing (Speaker: Dr. Piotr Barski, ProChimia Surfaces, Poland)
- Fighting against pandemics using a gene editing armour (Speaker: Dr. Michele Lai, Università di Pisa)

We are waiting to see you there!

ADVANCED THERAPIES 2024

gateway! We are looking for you and your collaboration.

https://i-gene.d4science.org/

Discover more

I-GENE Consortium

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Please follow our social media and website to get updates on I-GENE mission and research activities:

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 862714

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