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Dear Readers,
The I-GENE team is pleased to welcome you to the 5th 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. Moreover, the superiority of our approach lies in the ability to switch the system on with light which increases the safety level of the technology and acceptability for future clinical applications. Please, stay up to date on the I-GENE project by reading this and next project newsletters!

Prof. Vittoria Raffa
I-GENE coordinator

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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>

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BIG CHALLENGES, BIG PLANS!

The Mid Term Review meeting of the I-GENE project took place in June. The meeting, organized in presence with the project officer and project reviewers, was attended by the Work-Package Leaders. The day was inspiring, the group discussed the project's progress, agreed on future steps and discussed new ideas. Thank you EC and reviewers for your hard work!

I-GENE TRAINING KIT AVAILABLE!

Curious about I-GENE technology? Wouldn't you want to learn more? Three simple steps:

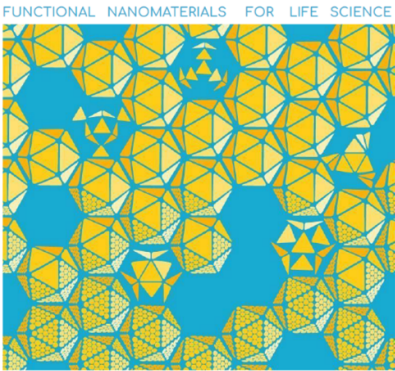
- Register to I-GENE

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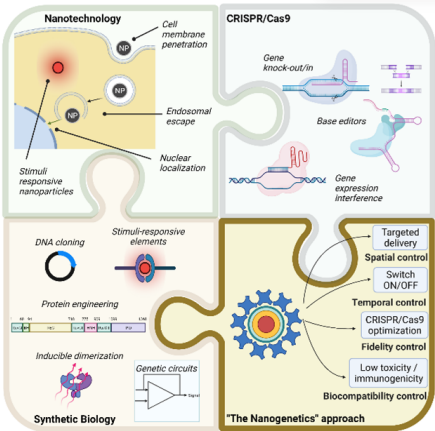
<https://i-gene.d4science.org>

- Download the I-Geneer training kit
- Read the User Manual and the Product Data Sheet for the I-Geneer Kit

You are ready to play with us 😊



Click Summary

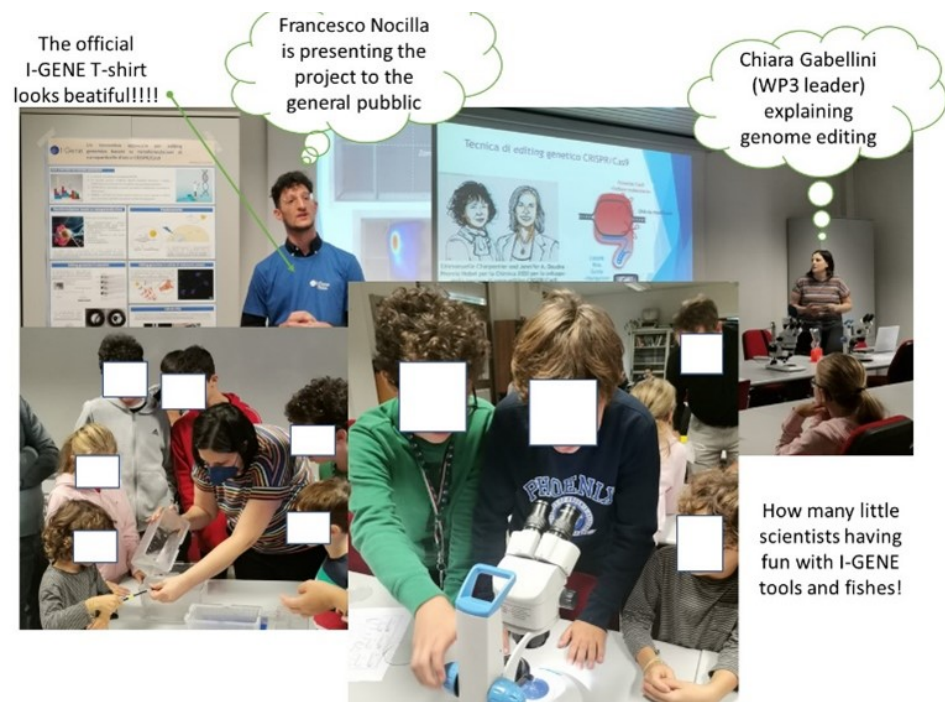


I-GENE REVOLUTION: THE EMERGING FIELD OF NANOGENETICS

The Bio Revolution of the 21 century is the use of omics and genetic engineering tools to treat diseases. The I-GENE team would theorize a third revolution, by introducing “nanogenetics” in the field, a new discipline that merges the design principles of nanomedicine and synthetic biology, enabling to engineer input-responsive gene editing platforms with self-localization abilities. Please, read more in our recent publication on Drug Discovery Today:

<https://pubmed.ncbi.nlm.nih.gov/36174966/>

2 (11.1%)



YOU ARE THE MOTIVATION THAT INSPIRES US TO MAKE GOOD SCIENCE!

Communication and outreach activities are a relevant part of the actions planned for the I-GENE project. Raising awareness of our work in the general public, inspiring young people about science and promoting public engagement is our missions.

Please, give a look to some of our initiatives:

- European Researchers' Night (Edition 2022)
- I-GENE project – explanatory video
<https://www.youtube.com/watch?v=okBNTDqa7C4&list=PLvuOaXPnnooXR-SbJnQKHyaF--uw1wKtr1&index=2>
- I-GENE project and the future of genome editing – video i
- <https://www.youtube.com/watch?v=CYNJcbnLRnI&t=4843>

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1st I-GENE WINTER SCHOOL HOSTED BY BIOCUBE CONFERENCE

Dear friends, please, register to BIOCUBE winter conference to meet I-GENE scientists in person! This winter school is organized by the Istituto Italiano di Tecnologia.

Do not miss it!

6 (33.3%)

<https://biocubemeeting.eu/>



6 (33.3%)

Discover more

1 (5.6%)

I-GENE Consortium



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