

[if you don't see this email click here](#)



The I-GENE project:

a new concept of genome editing



Dear Readers,

The I-GENE team is pleased to welcome you to the 7th 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

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/>



LAB-ON-CHIP IN ACTION



[Subscribe](#)[Past Issues](#)[Translate ▼](#)

expert in microfluidics from the team of Lionix International travelled to Italy for joined experiments. Together with experts in photonics and biology, the team was able to perform the first successful irradiations in human melanoma cells using the Lab-on-Chip (LoC) device. The idea? Every single cell is exposed to the right amount of light as it passes through the waveguides, leading to the controlled activation of the I-GENE technology! Learn more about the I-GENE technology and the LoC device here <https://i-geneproject.eu/project/>. Of course, in the end of a long day we couldn't miss tasting some typical tuscan

THE I-GENE PODCAST: CRISPR NANOMEDICINE!

Do you want to deepen your knowledge about the I-GENE research? Which are the recent scientific advances of the CRISPR technologies? What about the hot topics of CRISPR-based technologies? And the challenges we are still facing that limit the application of this powerful gene editing tool to the clinics? Vittoria Raffa has been invited by Luca Fusar Bassini, a brilliant PhD student and scientific divulgator, to discuss on his podcast "The Biotech Futurist" the I-GENE project and the state of the art of CRISPR tools. Vittoria explains how integrating nanotechnology with synthetic biology could make the chance, allowing to approach a new generation of customizable therapeutics. If we have piqued your curiosity just switch in on and there you go (link below)

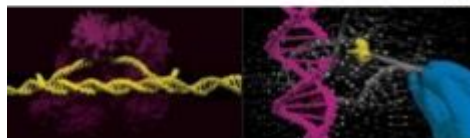
<https://youtu.be/ud1vg4AWmow>

<https://open.spotify.com/episode/1xJU1K2ZHR39bwkBMbZCh2?si=tANCqe5tRQ-ahQDI7RauTA>



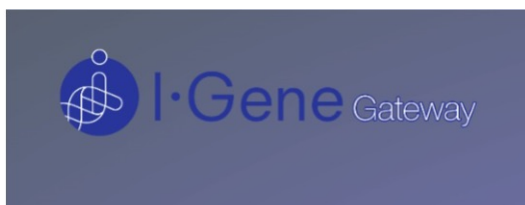
ADVANCED THERAPIES

2024



I-GENE CONFERENCE: SATELLITE EVENT AT ADVANCED THERAPIES 2024

The CRISPR in drug discovery conference held at Oxford (United Kingdom), focussed on the pioneering applications of the CRISPR technology in therapeutics and its emerging cutting edge applications in drug discovery. Obviously I-GENE members could not miss this event to learn, discuss and exchange ideas and innovative approaches for CRISPR with international experts from academia and industry. We strongly believe that establishing new connections, staying up to date, fostering learning, inspiration and provoke conversations that matter are at the basis of excellent research. Bringing together bench research with interests for applying the technology in pharmacological treatments as well as to encourage

[Subscribe](#)[Past Issues](#)[Translate ▼](#)

Do you want to be an active partner of our network. You can! Please, register to our gateway! We are looking for you and your collaboration.

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

[Discover more](#)

I-GENE Consortium



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 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

[Subscribe](#)[Past Issues](#)[Translate ▼](#)

Address: www.i-gene.d4science.org

Call us: +39 050 2211487

Email: vittoria.raffa@unipi.it

This email was sent to <<Email Address>>

[why did I get this?](#) [unsubscribe from this list](#) [update subscription preferences](#)

Dipartimento di Biologia · Via Luca Ghini, 13 · Pisa, Pi 56126 · Italy

