UPGRADE offers radical new solutions to the hurdles that currently limit efficacy and safety of conventional and emerging gene therapy approaches.

OUR GOAL

Overcome current limitations that are hindering broad application of gene therapy, improving the safety, efficiency and in vivo delivery of advanced medicinal products (AMPs) based on gene and epigenome editing.

OBJECTIVES

- Improve efficiency and safety of novel and emerging genome and epigenome editing technologies
- Precisely assess and enhance specificity of genome editing
- Tailor delivery of the novel genome editing technologies for in vivo application.
- Characterize and circumvent the immunogenicity of the AMPs
- Translate these novel AMPs into novel treatment paradigms applicable to diseases affecting large patient populations

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UPGRADE CONSORTIUM

UPGRADE multidisciplinary consortium includes experts in precision gene editing, gene and celle therapy and biotechnology

UPGRADE STAKEHOLDERS

UPGRADE project will build a network with key stakeholders: researchers, early-stage career scientists, industries, physicians, and patient associations

- Fondazione Telethon, Italy
- Pompeu Fabra University, Spain
- University of Trento, Italy
- Technische Universitaet Dresden, Germany
- Vrije Universiteit Brussel, Belgium
- University of Nantes, France
- Ludwig-Maximiliansuniversitaet Muenchen, Germany
- Massachusetts General Hospital, United States

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UPGRADE

Unlocking Precision Gene Therapy

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