

Press Kit

August 6, 2026

Article in Communications Biology : mRNA for skin & regenerative beauty

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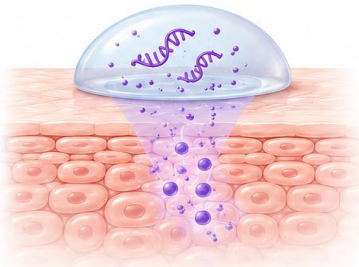
Article overview

Topical RNA Delivery Opens a New Era for Dermatology, Healthy Aging & Regenerative Beauty

A NEW PARADIGM FOR SKIN BIOLOGY AND REGENERATIVE MEDICINE

TOPICAL RNA DELIVERY

Non-invasive application of RNA formulation



BIOLOGICALLY ENGINEERED VECTORS (RNA-BEVs)

Engineered biological vectors designed to combine biosafety, efficient tissue delivery and transient gene expression



Biosafety



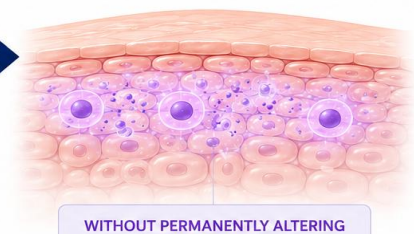
Efficient Tissue Delivery



Transient Gene Expression

TRANSIENT PROTEIN EXPRESSION IN THE EPIDERMIS

Localized and temporary production of functional proteins in skin cells



WITHOUT PERMANENTLY ALTERING THE GENOME

OPENING NEW PERSPECTIVES



DERMATOLOGY

Targeted, transient modulation of skin cell functions to address dermatological conditions.



REGENERATIVE MEDICINE

Support of tissue repair and regeneration in wounds and other skin disorders.



HEALTHY AGING

Transient reprogramming of skin biology to promote youthful, healthy-looking skin.



REGENERATIVE BEAUTY

New opportunities for innovative and science-driven approaches in beauty and skin enhancement.



The skin may become more than a target for treatment— it may become a programmable interface for the next generation of medicine.



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Article [Open access](#) | Published: 08 July 2026

Biologically engineered vectors enable topical mRNA delivery for skin regeneration

[Julie Gérard](#), [Héloïse Pilet](#), [Charbel Bouez](#), [Xun Du](#), [Yong Chen](#), [Yogeshvar N. Kalra](#), [Pascal Clayette](#), [Bruno A. Bernard](#) & [Nicolas Grandchamp](#)

Published July 8, 2026



Illustration

A NEW ERA FOR SKIN REGENERATION

Topical mRNA delivery



RNA-BEV

Biologically Engineered Vector
for targeted skin cell activation

APPLICATIONS



DERMATOLOGY



REGENERATIVE BEAUTY







Quotes

Quotes from the authors of scientific publication in Communications Biology (Nature group)
“Biologically engineered vectors enable topical mRNA delivery for skin regeneration”



Nicolas Grandchamp, PhD
Chief Scientific Officer, GEG Tech

“We are proud of these results, which mark a major advance in the emergence of next-generation biological vectors for RNA delivery,” said **Dr. Nicolas Grandchamp, Chief Scientific Officer of GEG Tech**. “They show that mRNA can now be delivered topically and transiently to the epidermis. This advanced vector architecture opens new perspectives for skin regeneration and, more broadly, for skin biology, medicine and beauty.”



Prof. Yong Chen

“This study shows that topical mRNA delivery can influence skin repair in a challenging diabetic wound model,” said **Prof. Yong Chen of Nantong University**. “The improvement in epidermal regeneration and tissue organization observed with RNA-BEV treatment provides an important experimental basis for further translational research in skin repair.”



Prof. Yogeshvar N. Kalia

“Targeted local delivery of complex nanocarriers with biological payloads to the viable epidermal cells is a major challenge,” said **Professor Yogeshvar N. Kalia of the University of Geneva**. “These results show that a biologically engineered delivery system can achieve local and transient expression in the epidermis after topical administration, marking a clear step forward for skin science and translational research.”



Charbel Bouez, PhD, MBA

“I’m deeply interested in frontier science that expands how biology can be harnessed for future skin innovation and disruptive ways of treatments,” said **Charbel Bouez, global head of R&D at IFF and senior Member at GEG Tech**. “This work shows that transient, local mRNA delivery may provide new ways to modulate skin functions with greater precision, opening fresh perspectives for skin biology and more broadly for regenerative beauty.”



Bruno A. Bernard, PhD

“What is particularly compelling here is that this work establishes a scientific basis for transiently programming skin cells in a controlled and localized manner,” said **Dr. Bruno A. Bernard, Scientific Advisor GEG Tech and former senior scientific leader at L’Oréal**. “That marks a conceptual advance that could ultimately influence how we think about future approaches to skin repair and skin care.”



Authors' biographies (1/2)

Nicolas Grandchamp, PhD

Scientific Director, GEG Tech | Expert in Genetic Engineering and RNA Vectorology

Dr. Nicolas Grandchamp is Scientific Director at GEG Tech, where he leads the scientific strategy and development of the company's next-generation RNA vector platform. His work focuses on the design of biologically engineered vectors for precision gene therapy, genome editing, RNA therapeutics, vaccination, and regenerative medicine. Under his scientific leadership, GEG Tech has established collaborations with leading international institutions, including the **University of California, Irvine (UCI)** and the **Broad Institute**, to advance novel RNA-based therapeutic approaches.

Dr. Grandchamp received his PhD from **Université Paris Diderot (Paris VII)**, where his research focused on advanced lentiviral vector engineering and non-integrating gene delivery systems. He is the author of numerous peer-reviewed scientific publications, book chapters, and international conference presentations in the fields of gene therapy, vectorology, vaccinology, and genetic engineering. His research has contributed to the development of innovative RNA delivery technologies designed to improve the safety, precision, and versatility of next-generation therapeutics.

Bruno Bernard, PhD, Dr ès Sci.

Scientific Advisor, GEG Tech | Former Senior L'Oréal Fellow | International Expert in Skin and Hair Biology

Dr. Bruno Bernard is an internationally recognized expert in skin and hair biology, with more than three decades of experience in biomedical research and innovation. He serves as **Scientific Advisor at GEG Tech**, bringing his extensive expertise in skin biology, regenerative science, and translational research to the company's development of next-generation RNA-based technologies.

Following postdoctoral training at the **U.S. National Institutes of Health (NIH)**, Dr. Bernard joined **L'Oréal Research & Innovation**, where he became **Senior L'Oréal Fellow, General Scientific Adviser**, and Head of the Worldwide Hair Biology Research Program. Throughout his career, he has contributed to the scientific foundations of numerous innovations in skin and hair care.

Dr. Bernard has authored more than **180 peer-reviewed scientific publications**, holds **over 40 patents**, and has served on the editorial boards of leading dermatology and cosmetic science journals. His research has significantly advanced the understanding of skin biology, hair follicle biology, pigmentation, aging, and regenerative mechanisms, establishing him as one of the world's leading experts in skin and hair science.

Charbel Bouez, PhD, MBA

Senior Member at GEG Tech | Senior Vice President, Global R&D Scent, IFF

<https://www.linkedin.com/in/charbel-bouez-cb7/>

Dr. Charbel Bouez is an internationally recognized scientist and innovation leader specializing in skin biology, regenerative medicine, advanced tissue engineering and the translation of breakthrough science into industrial innovation. He is also a **Senior Member at GEG Tech**, contributing his scientific and strategic expertise to the company's development in skin biology and regenerative beauty.

After completing a research fellowship in Dermatology and Cell Biology at **Harvard Medical School**, he joined **L'Oréal Research & Innovation**, where he held global leadership positions over more than 15 years, including **Global Lead of Regenerative Beauty, Vice President of Advanced Research Americas**, and **President of EPISKIN**, a leading organization in reconstructed human skin models.

Today, Dr. Bouez serves as **Senior Vice President, Global R&D Scent at IFF**, where he leads global research and innovation activities. He has authored numerous peer-reviewed scientific publications and is widely recognized for his contributions to skin biology, regenerative technologies, human tissue models, and science-driven innovation.



Authors' biographies (2/2)

Yogeshvar N. Kalia, PhD

Professor of Pharmaceutical Sciences, University of Geneva | International Expert in Drug Delivery and Skin Biology

Professor Yogeshvar N. Kalia is a Full Professor at the **University of Geneva** and an internationally recognized expert in pharmaceutical sciences, skin biology, and advanced drug delivery technologies. For nearly three decades, his research has focused on overcoming biological barriers to enable the localized and systemic delivery of therapeutics, with particular expertise in topical and transdermal delivery systems.

Following doctoral training at **Imperial College London** and postdoctoral fellowships at the **University of Cambridge** and the **University of California, San Francisco (UCSF)**, Professor Kalia joined the University of Geneva, where he leads the **Molecular Therapeutics Delivery Group**. His laboratory collaborates extensively with pharmaceutical, biotechnology and skin care companies to translate innovative delivery technologies into therapeutic and cosmetic applications.

Professor Kalia has authored more than **190 peer-reviewed scientific publications**, contributed **21 book chapters**, is co-inventor on **7 patents**, and serves on the editorial boards of several leading international journals in pharmaceuticals and drug delivery. His work has made major contributions to topical and transdermal drug delivery, pharmaceutical biotechnology, and the development of next-generation molecular therapeutics

Yong Chen, PhD

Professor of Dermatology, Nantong University | Expert in Skin Regeneration and Wound Healing

Professor Yong Chen is a leading researcher in skin biology, regenerative medicine, and wound healing at **Nantong University (China)**. His research focuses on the molecular mechanisms governing skin regeneration, tissue repair, and chronic wound healing, with a particular emphasis on translating fundamental discoveries into innovative therapeutic strategies. He has established an internationally recognized research program spanning dermatology, regenerative biology, and biomaterial-based approaches to tissue repair.

Professor Chen has authored numerous peer-reviewed scientific publications and has led multiple national and international research projects in regenerative medicine. His work has significantly advanced the understanding of skin repair mechanisms and the development of novel therapeutic approaches for tissue regeneration. Through collaborations with leading academic and industrial partners, he contributes to the translation of cutting-edge regenerative science into future clinical and biomedical applications



About (1/2)



About GEG Tech

GEG Tech is a leading deeptech in the field of mRNA delivery. The company is a pioneer in transient mRNA delivery technologies, with a proprietary technology platform of **Biologically Engineered Vectors (BEVs)** enabling a wide range of innovative biomedical applications.

The company's research laboratory is located near Paris, on the **Paris-Saclay** cluster. GEG Tech is developing a portfolio of innovations in precision gene therapy, vaccination, regenerative medicine, cancer immunotherapies, dermatology and regenerative beauty.

GEG Tech operates under an open-innovation studio model. It has established scientific partnerships with leading academic and clinical institutions in North America, Europe and Asia to accelerate the development of next-generation biological therapies. Amongst GEG Tech research partners : the University of California at Irvine, the Broad Institute of MIT & Harvard, Pun University in India, Zurich University and the University of Geneva, in Switzerland.

In October 2024, GEG Tech announced its partnership with the Broad Institute of MIT & Harvard.

In January 2025, the University of California at Irvine (UCI) and GEG Tech announced breakthrough results in precision gene therapy, with blind mice recovering visual cycle after treatment combining UCI gene editor and GEG Tech mRNA biological engineered vectors.



About (2/2)



About the University of Geneva, Switzerland

The University of Geneva is a leading academic institution internationally recognized for its excellence in life sciences, pharmaceutical sciences and translational biomedical research.

Within its School of Pharmaceutical Sciences, the Molecular Therapeutics Delivery Group, led by Professor Yogeshvar N. Kalia, develops innovative technologies to improve the safe and effective delivery of therapeutics across biological barriers, with recognized expertise in cutaneous and transdermal drug delivery.



About the University of Nantong, China

Nantong University is a multidisciplinary university located in Jiangsu Province, China. Through its School of Pharmacy, the university conducts research in pharmaceutical sciences, drug delivery and biomedical innovation, contributing to translational studies in skin repair and regenerative medicine.



GEG Tech lab, Paris

