

LABORATOIRES
FILORGA
— PARIS



SCIENTIFIC BROCHURE
NCEF-REVITALIZE CREAM

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THE **NEW GENERATION** OF REVITALIZING CREAM INCORPORATING THE **NEW NCEF COMPLEX**

PATENT-PENDING^[1] NCEF^[2] COMPLEX RENOVATED TECHNOLOGY & FORMULA

Exclusive complex concentrated with 10 most powerful active ingredients used in revitalizing injections, combined in a new generation of encapsulation



SYNTHETIC SNAKE VENOM-LIKE TRIPEPTIDE

Reduces muscle cell contraction *by inhibiting* the muscular nicotinic acetylcholine binding leading to wrinkle reduction

PEPTIDES COMPLEX

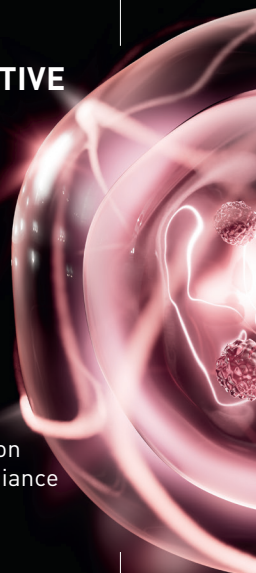
Increase proteoglycans *syndecan-1* and lumican levels and reduce fibers fragmentation to promote wrinkle smoothing, skin firmness and elasticity

SKIN BOOSTER ACTIVE

Promotes keratinocytes proliferation and collagen synthesis for a better skin cohesion

PLANT EXTRACT

Mimics the epigenetic mechanism of resurrection plant to enhance skin radiance

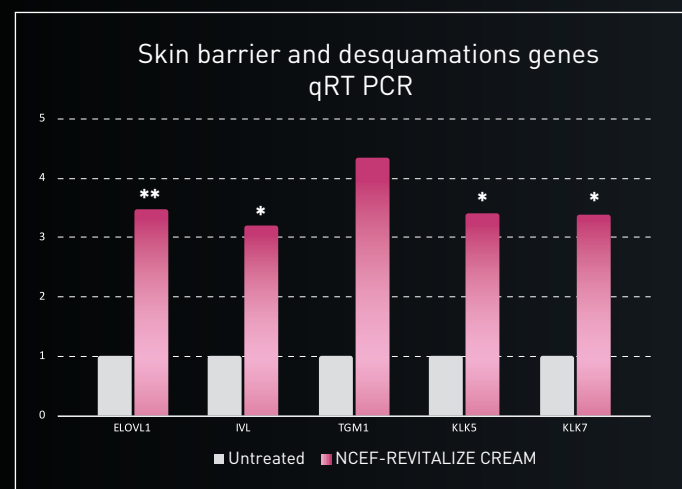


MULTILEVELED ACTIONS TO PROMOTE A COMPREHENSIVE REVITALIZING EFFECT

SKIN COHESION AND TISSUE ARCHITECTURE

NCEF-REVITALIZE CREAM induces the significant expression of key genes involved in skin barrier and desquamation^[3]:

- / **ELOVL Fatty Acid Elongase 1 (ELOVL1)**: protein involved in ceramide biosynthetic process and establishment of skin barrier
- / **Involucrin (IVL)**: skin barrier protein involved in the cornified cell envelope formation^[4]
- / **Transglutaminase 1 (TGM1)**: skin barrier protein involved in the cornified cell envelope formation
- / **Kallikrein Related Peptidase 5 (KLK5) and Kallikrein Related Peptidase 7 (KLK7)**: proteases involved in skin desquamation



* $p < 0.05$
** $p < 0.01$

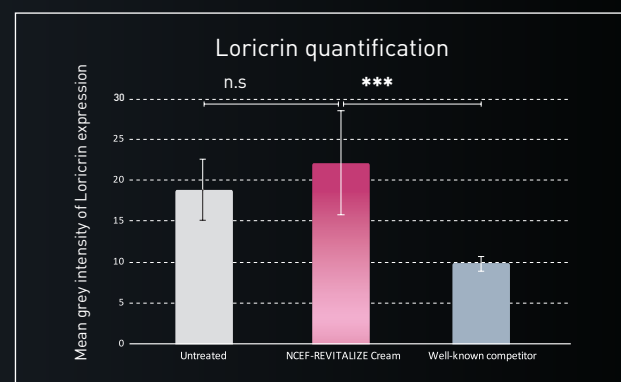
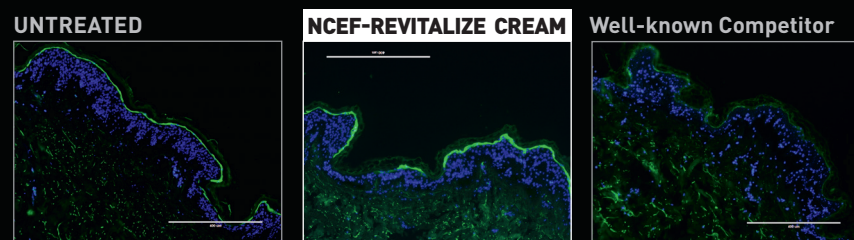
[3] qRT PCR on EpiDermFTTM, after 24h treatment. [4] Cornified cell envelope: highly insoluble and extremely tough structure formed beneath the cell membrane during terminal differentiation of keratinocytes. Its main function is to provide human skin with a protective barrier against the environment.

[1] US Patent 11,026,873/China ZL201580085613.2/ Patent-pending in Europe and US Patent 11,938,212 B2/ Patent-pending in China and Europe / Patent-pending in France. [2] **NCEF [New Cellular Encapsulated Factors]** - Unique complex inspired by fillers (hyaluronic acid) and revitalizing actives (amino-acids, vitamins, antioxidants).

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Immunofluorescence staining and quantification show that **NCEF-REVITALIZE CREAM** promotes the increase of Loricrin expression^[5]. Component of the cornified cell envelope, the increase of Loricrin expression reflects the enhancement of the protective barrier function, with a significant efficiency compared to a well-know competitor.

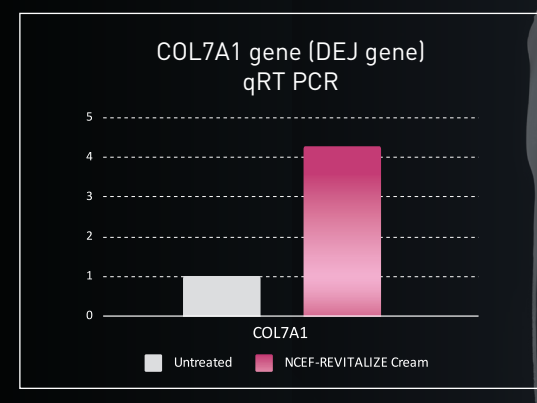


n.s: non significative
***p<0.001

MULTILEVELED ACTIONS TO PROMOTE A COMPREHENSIVE REVITALIZING EFFECT

SKIN COHESION AND TISSUE ARCHITECTURE

NCEF-REVITALIZE CREAM promotes the expression of the Collagen Type VII Alpha 1 Chain (COL7A1) gene^[6] which encodes a protein involved in cohesion between the epidermis and the dermis (anchoring fibril) and thus involved in the integrity of the Dermal-Epidermal junction (DEJ).



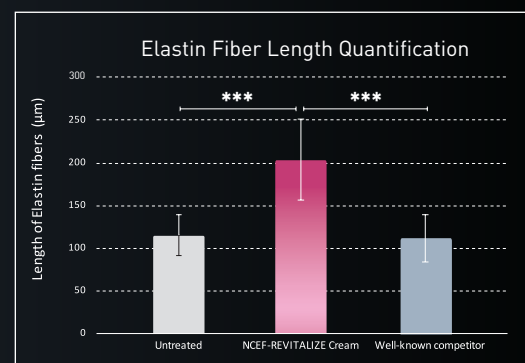
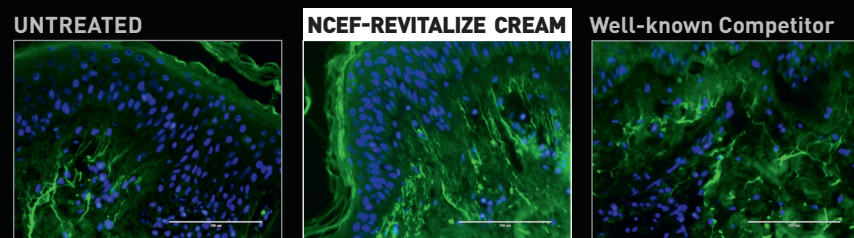
[6] qRT PCR: EpiDermFTTM, after 48h treatment.

[5] *In vitro* immunofluorescence staining: human skin explants, after 24h treatment. DAPI is a fluorescent stain binding DNA.

MULTILEVELED ACTIONS TO PROMOTE A COMPREHENSIVE REVITALIZING EFFECT

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SKIN ELASTICITY^[7]



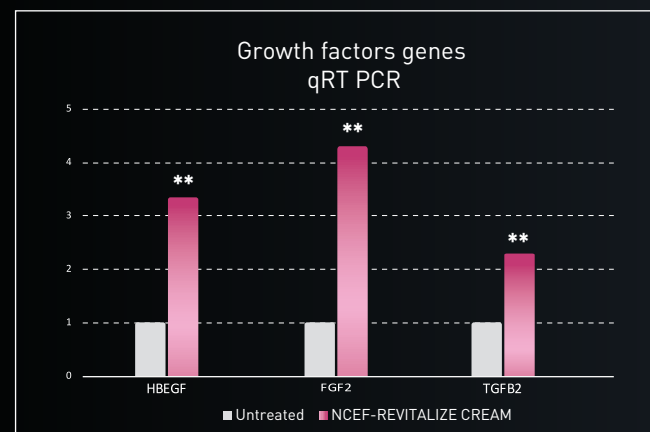
*** $p < 0.001$

The **NCEF-REVITALIZE CREAM** significantly boosts the length of elastin fibers, reflecting an improvement in skin elasticity, and performs significantly better than untreated and a well-known competitor.

SKIN HOMEOSTASIS

NCEF-REVITALIZE CREAM promotes the expression of key Growth factors involved in skin homeostasis^[8]:

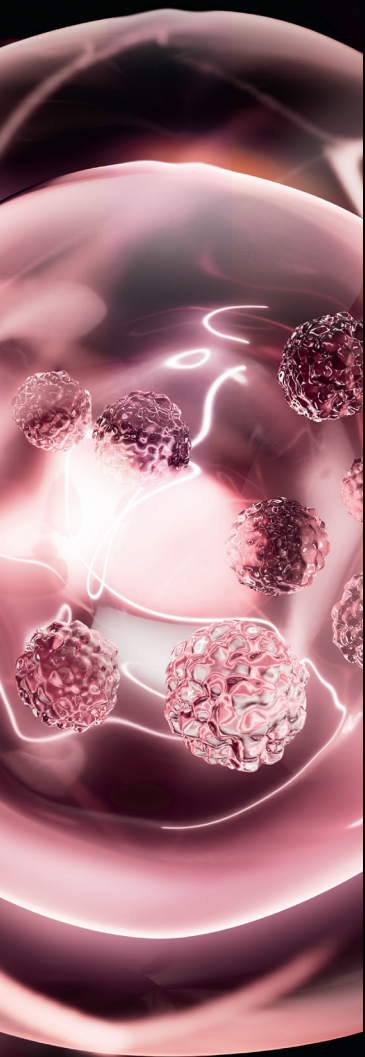
- / **Heparin Binding EGF Like Growth Factor (HBEGF)**, for skin homeostasis and wound healing
- / **Fibroblast growth factor 2 (FGF2)** accelerates wound closure by activating vascular endothelial cells and fibroblasts
- / **Transforming Growth Factor Beta 2 (TGFB2)** stimulates elastin and collagen IV



** $p < 0.01$

[7] Ex-vivo immunostaining (human skin explants, donor: female, 43 years old, African American, Fitzpatrick IV-V, treated daily for 7 days). DAPI is a fluorescent stain binding DNA.

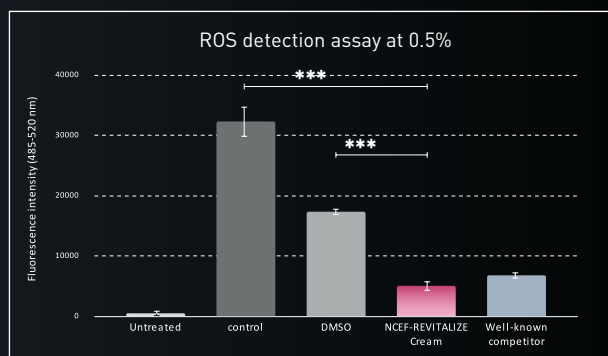
[8] qRT PCR: Skin explants, after 7 days treatment (donor: woman 43 years old, African American, Fitzpatrick IV-V).



MULTILEVELED ACTIONS TO PROMOTE A COMPREHENSIVE REVITALIZING EFFECT

ANTIOXIDANT PROPERTIES STRENGTHENED

NCEF-REVITALIZE CREAM formula presents a significant antioxidant activity^[9].



*** $p < 0.001$

[9] ROS detection assay: The total antioxidant capacity of formula testing, without any cells. Induced with hydrogen peroxide (oxidative stress) and formula inhibited total ROS. Lower bars indicate stronger protection from Oxidatives Stress; 0.3% H2O2, 0.5% of the formulations tested. DMSO: Dimethyl sulfoxide is a solvent used as a vehicle.

A COMPREHENSIVE REVITALIZING EFFECT OBSERVED AND ASSESSED UNDER DERMATOLOGICAL CONTROL^[10]

		D28
CLINICAL SCORING	SKIN BRIGHTNESS	+ 16% *
	SKIN COMPLEXION HOMOGENEITY	+ 6% *
	SKIN FIRMNESS	+ 9% *
WRINKLE SILICONE REPLICA CROW'S FEET AREA	TOTAL NUMBER OF WRINKLES	- 20% *
	TOTAL SURFACE OF WRINKLES AREA	- 14% *
	TOTAL LENGTH OF WRINKLES	- 18% *
CUTOMETRY	TONICITY	+ 14% *

* $p < 0.05$

[10] Clinical study: 30 women between 40 and 65 years of age (mean age : 56) / phototype I to III. Application of the cream in the morning and evening on the face and neck. Time measurements for clinical scoring, wrinkle silicone replica image analysis and cutometry: 0 and 28 days.

THE NEW GENERATION OF ANTI-AGING CREAM INSPIRED BY REVITALIZING INJECTIONS TO SMOOTH, TONE AND ILLUMINATE SKIN

SUMMARY

DESCRIPTION & FORMULA

- / Light pink emulsion, with a **smooth** and **silky texture**
- / The **new multi-patented** and **patent-pending**^[11] **NCEF technology** incorporates ingredients **essential to the cellular metabolism**
- / A formula that included **key active ingredients** promoting a **smoother, more radiant and toned skin**
- / **94% of natural origin**^[12]

EFFECTS

Scientifically and clinically proven efficacy:

skin cohesion and tissue architecture

skin homeostasis

skin elasticity

firmness and tonicity

anti-aging

radiance and evenness

antioxidant protection

HOW TO USE

- / Apply to face, neck and décolleté morning and night after serum
- / Complimentary to the **NCEF-REVITALIZE SERUM**



[11] US Patent 11,026,873/China ZL201580085613.2/ Patent-pending in Europe and US Patent 11,938,212 B2/ Patent-pending in China and Europe / Patent-pending in France. [12] Percentage calculated according ISO norm 16128.

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