A novel active ingredient induces a beneficial dermal remodeling, leading to clinical improvement on photo-aged skin

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Total World Population

World Population Ageing

Average Life Expectancy
• Growing demand from customers for “anti-ageing” solutions.
• Broad offer drives conscious choice
• Consumers prefer quality skin care products, with clinical proof efficacy to prevent their skin from ageing and to improve the skin appearance

"Anti-ageing” solutions

• Skincare products referring to scientific rationale and clinical proof of efficacy often contain key active ingredients,
• But… active ingredients supported by published clinical studies is scarce*

Age-Reflect: Sign of Ageing that Really Matter!

- Sign of ageing in relationship with age perception
- 203 Russian women from 30-65 yo
- Normalised picture with the Visia
- Data analysis
  1. Grading of the sign of ageing by an expert
  2. Grading by about 600 “naïve” graders of

*Sign of Ageing that Really Matter!

*Influence of facial skin ageing characteristics on the perceived in a Russian female population.
Focus on a Targeted solutions

Target sagging skin on 40+ yo

Skin needs boost skin firmness & skin elasticity

* Influence of facial skin ageing characteristics on the perceived in a Russian female population. E. Merinville; G.Z. Grennan; J.M. Gillbro, PhD; J. Mathieu; A. Mavon, ICS 2015, 37 (suppl. 1), 3-8.
Gene signature of retinoic acid-treated photoaged skin combined with C-Map analysis (connecting gene-expression signatures with small molecules)

Identification of A-A-A, a potential active ingredient targeting sagging skin
Age dependance of FIBROBLAST F-ACTIN EXPRESSION


N-ACETYLATED ASPARTIC ACID REDUCE FIBROBLAST F-ACTIN EXPRESSION WITH 40%*

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Clinical investigations - Through 2 pilots’ double bind, randomized and placebo controlled studies

1. Expression of ECM protein, Collagen IV (COLIV) and Fibrillin-1 through clinical biopsy study 16 female volunteers (>55 years of age) exhibiting photodamaged skin on their forearm, investigating the effect of a 12 day-treatment* 1% A-A-A.

2. Skin firmness, panel of 16 women (>45 years of age) using Cutometer MPA580 after topical application of the test products (0.1% retinol / 1% A-A-A) for 28 days. Multiple suction enabled the assessment of F4, an area parameter specifically representing skin firmness.

*In vitro and in vivo studies with tetra-hydro-jasmonic acid (LR2412) reveal its potential to correct signs of skin ageing. C. Tran, J.F. Michelet, L. Simonetti, F. Fiat, Garrigues, Potter, E. Segot, C.E.M. Griffiths O de Lacharierere.
JEADV. 2014;28:415–23

Expression of ECM protein, Collagen IV (COLIV) and Fibrillin-1
N-Acetyl aspartic acid increased skin firmness in 28 days*


Focus on a Targeted solutions?

Target Facial sagging skin?

Skin needs boost skin firmness & skin elasticity
3D deformation (maximum depth) of skin surface under DynaSKIN air flow on the cheek

Young (20 years)  Middle-aged (44 years)  Old (64 years)

3D deformation (maximum depth) of skin surface under DynaSKIN air flow on the cheek
AGE-DEPENDENT DEFORMATION OF SKIN SURFACE UNDER DYNASKIN AIR FLOW ON THE CHEEK (MAXIMUM DEPTH)

3D DEFORMATION OF SKIN SURFACE UNDER DYNASKIN AIR FLOW ON THE CHEEK (MAXIMUM DEPTH) AT BASELINE AND AFTER 84 DAYS OF TREATMENT WITH A FIRMING SKIN CARE REGIMEN (FEATURING AAA).
3D DEFORMATION OF SKIN SURFACE UNDER DYNASKIN AIR FLOW ON THE CHEEK (MAXIMUM DEPTH) AT BASELINE, AND OVER 84 DAYS OF TREATMENT WITH A FIRMING SKIN CARE REGIMEN (FEATURING AAA).

(n = 22). * Significant differences relative to T0 (*p =<0.05).

ONE MORE RESULT ...
EYELID LIFTING

AAA-containing product significantly decrease the height the upper eyelid fold vs placebo (56 days application)

Thank you!

Ori-Derm & CC Team,

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