



### La creazione del claim cosmetico:

dalla dimostrazione dell'efficacia alla comunicazione al consumatore

Alessandra Semenzato

17 marzo 2023





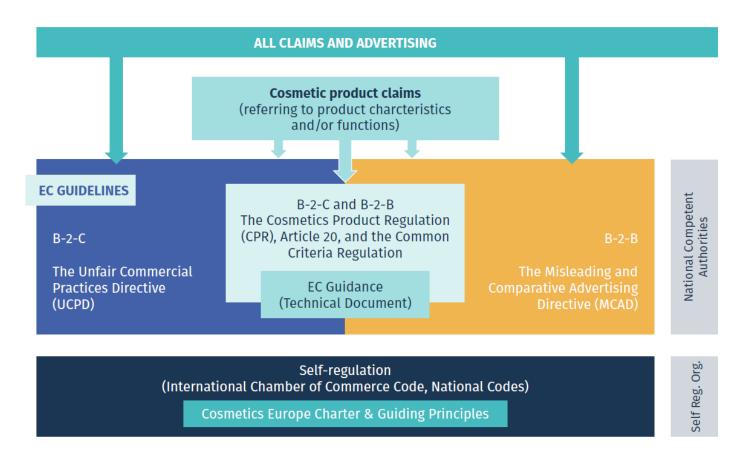
## GUIDELINES FOR COSMETIC PRODUCT CLAIM SUBSTANTIATION

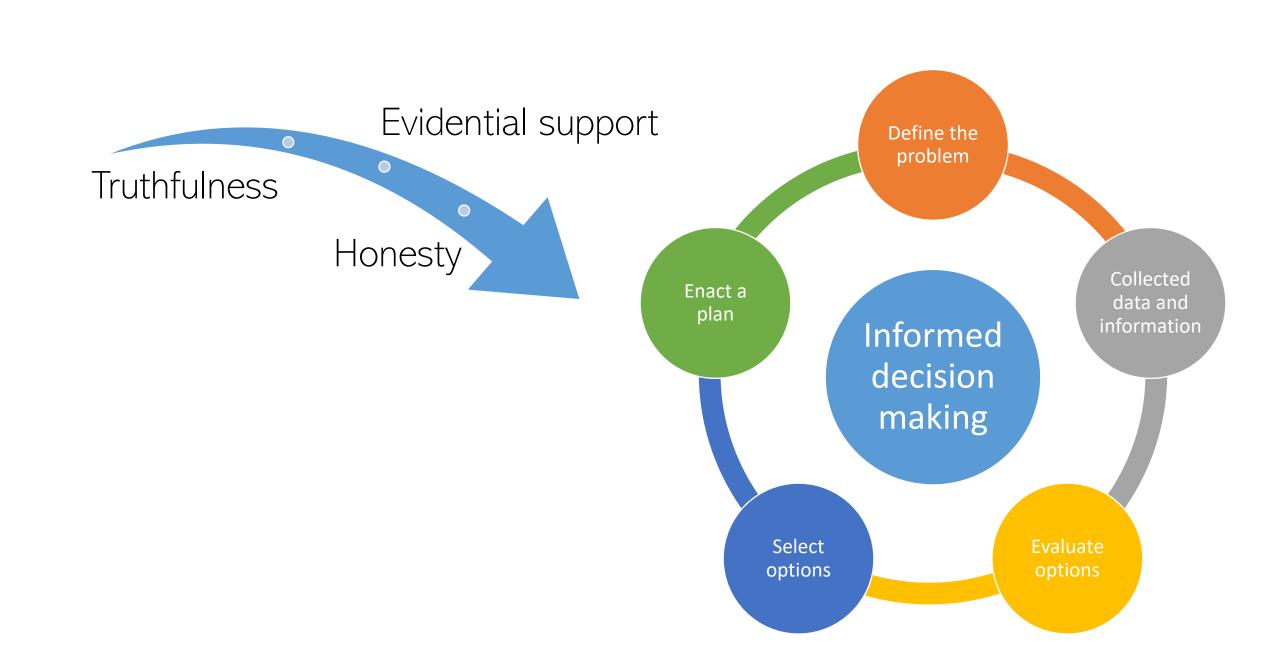
Revising and expanding the Colipa Guidelines on Efficacy (2001/rev. 2008)

22 May 2019

Cosmetic product claims must comply with the legally-binding Common Criteria Regulation<sup>5</sup> which lays down six criteria that must be met for the justification of claims used in relation to cosmetic products:

- · legal compliance;
- truthfulness:
- · evidential support;
- honesty;
- fairness;
- informed decision-making.





## GUIDELINES FOR COSMETIC PRODUCT CLAIM SUBSTANTIATION

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#### Sensory claims

based on a trained expert's evaluation of the relative level of a sensory attribute (e.g. sticky, greasy, easily absorbed) on a relevant scale

#### Performance claims

(i.e. a claim relating to product efficacy such as moisturising, wrinkle reduction, sun protection, etc.):

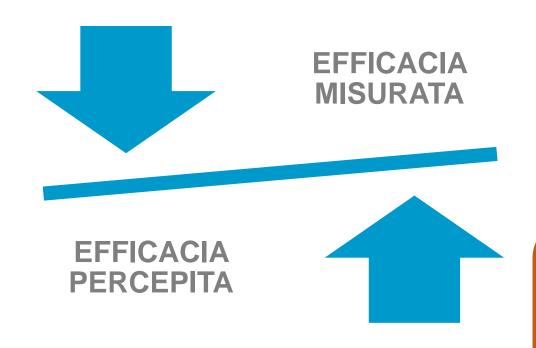
Cosmetic product claims

#### Consumer perception claims

based on a target user population sample evaluating its own personal perception of a sensorial or performance attribute and may include evaluation of product appeal

### Ingredient-related claims

(i.e. a claim relating to product efficacy such as moisturising, wrinkle reduction, sun protection, etc.)



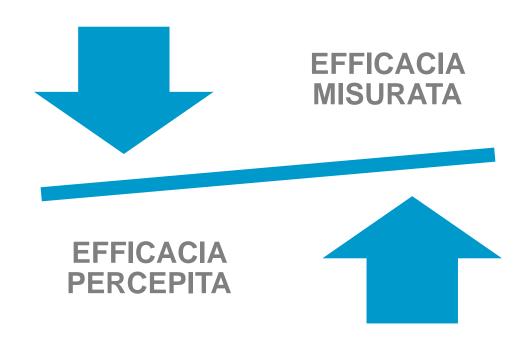
Sensory claims

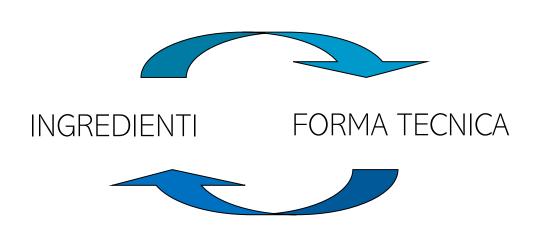
Performance claims

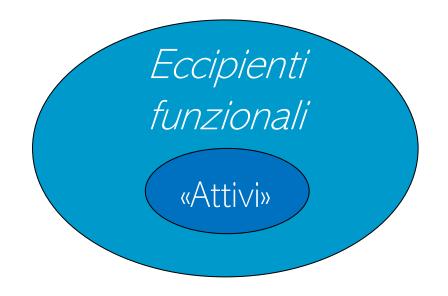
Cosmetic product claims

Consumer perception claims

Ingredient-related claims







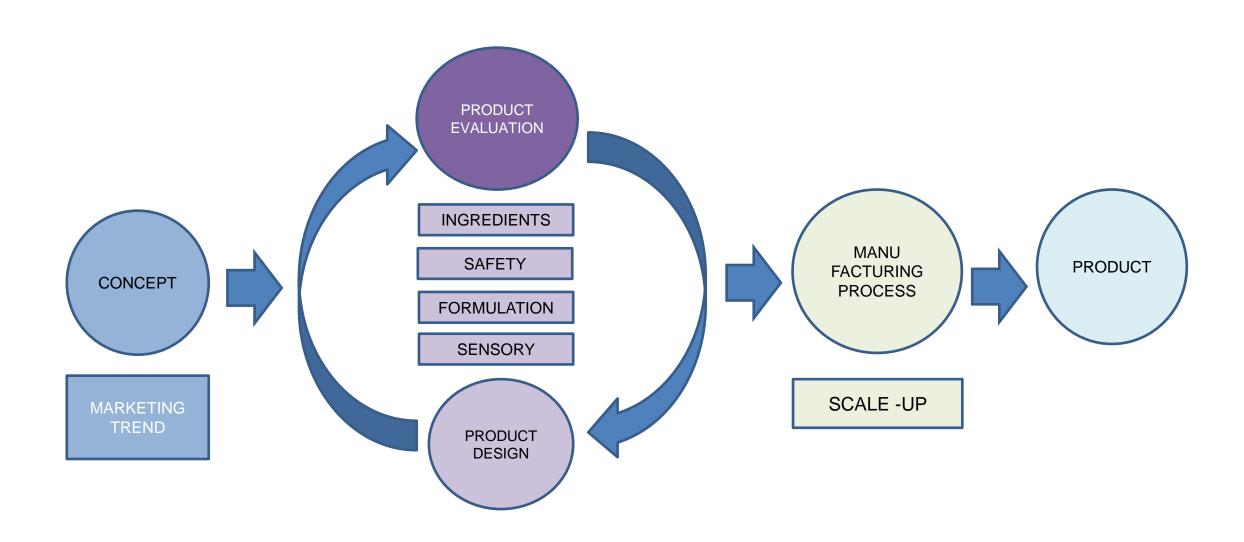
Effetto

 Modificazione biologica indotta oggettivamente misurabile

Efficacia

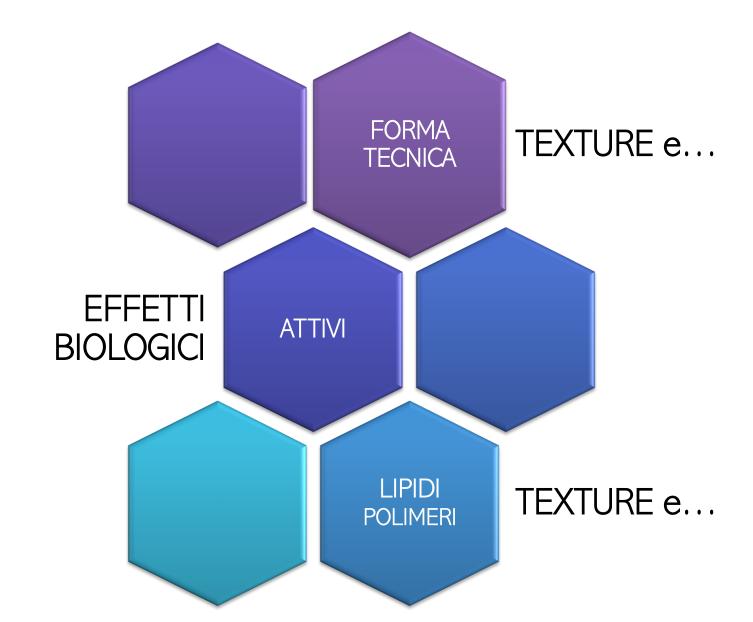
• Stima del beneficio di quanto ci si è proposti (W.Umbach)

### COSMETIC PRODUCT DESIGN



### COSMETIC PRODUCT DESIGN

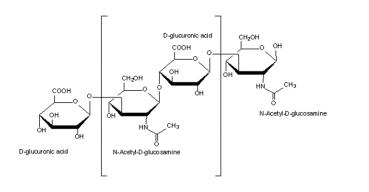


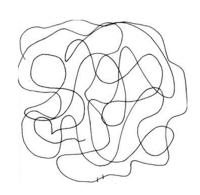


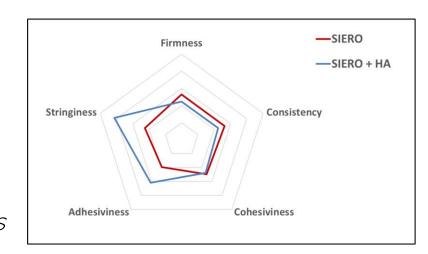
#### ACIDO IALURONICO

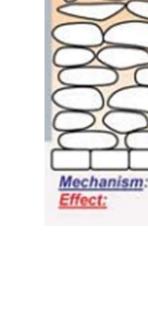
POLIMERO formato da una catena lineare, costituita da unità disaccaridiche di N-acetilglucosammina ed acido glucuronico

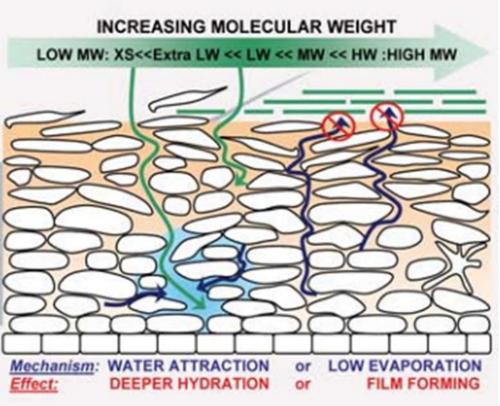
#### Struttura Random coil





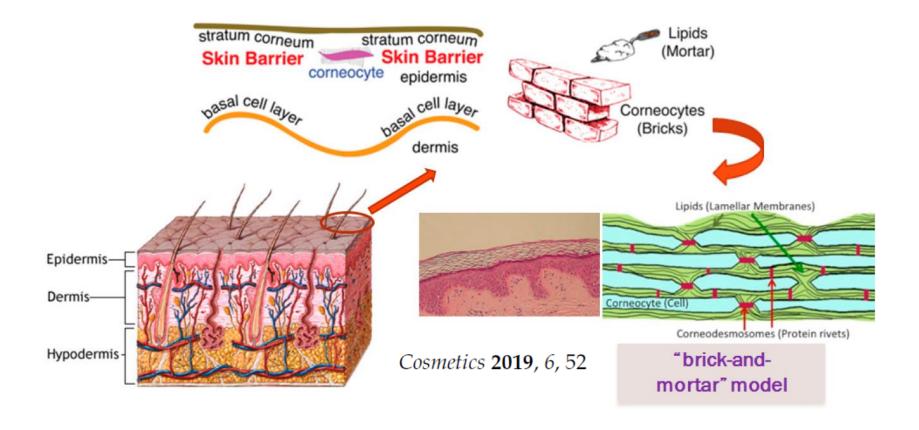






Texture Analysis

### Skin homeostasis



### Cell communication

### TESTING / CLAIM SUPPORT

Essere in linea con la regolamentazione



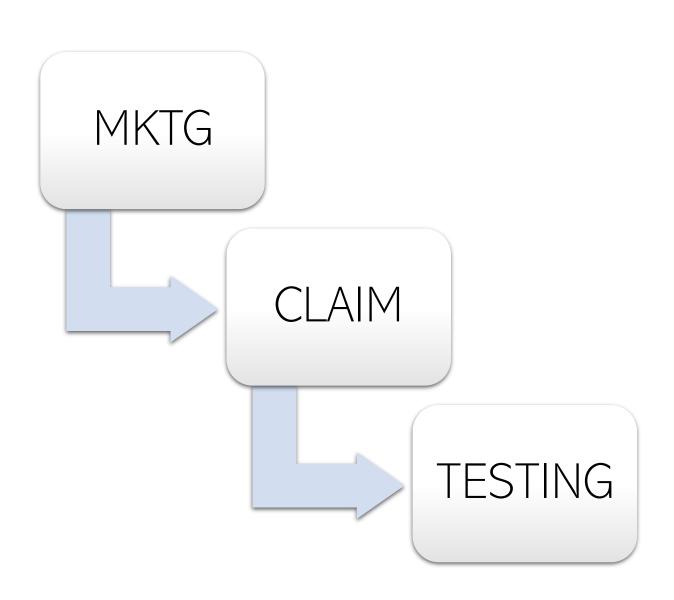
TESTING / CLAIM SUPPORT Essere in linea con la regolamentazione



SFIDA / OPPORTUNITA' per valorizzare le peculiarità del prodotto / INNOVAZIONE

### TESTING / CLAIM SUPPORT

Essere in linea con la regolamentazione

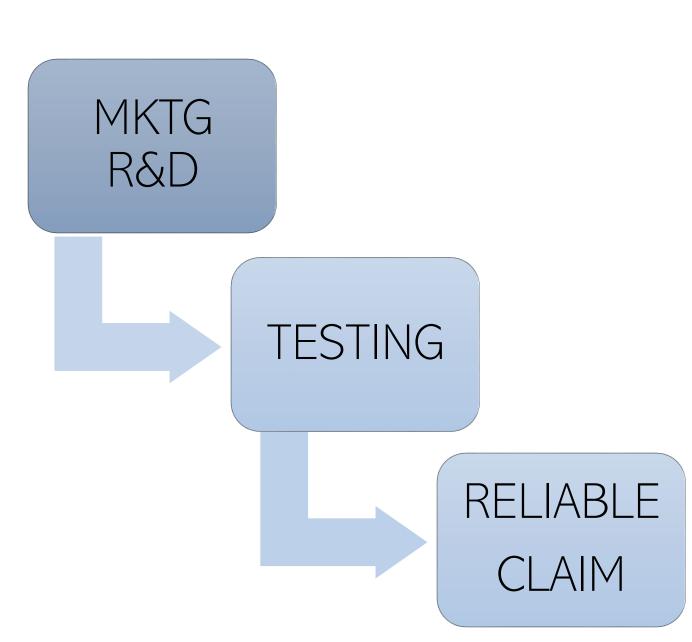


### TESTING / CLAIM SUPPORT

Essere in linea con la regolamentazione



SFIDA / OPPORTUNITA' per valorizzare le peculiarità del prodotto - INNOVAZIONE



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#### EVIDENCE SUPPORT: THE BUILDING BLOCKS



tests conducted using living components of an organism (e.g. cells, hair follicles, skin explants, reconstructed skin, etc.) that have been isolated from their usual biological surroundings

# Evaluation of product & ingredient properties

Testing needs to provide a high level of confidence that the product delivers the benefits that are expected based on the ingredients claimed, the advertised claims and the general presentation of the product.



In Vivo

Performance measurement by instrumental methods

Performance assessment by ex-vivo methods

Controlled clinical testing
Performance Perception-by-others Tests

# IN VIVO PERFORMANCE MEASUREMENT BY INSTRUMENTAL METHODS CONTROLLED CLINICAL TESTING



Permettono di verificare e misurare l'azione specifica che si vuole vantare Forniscono la prova effettiva di efficacia Forniscono anche dati relativi a sicurezza



Disegno sperimentale complesso Necessità di chiarire bene gli endpoint Costo elevato

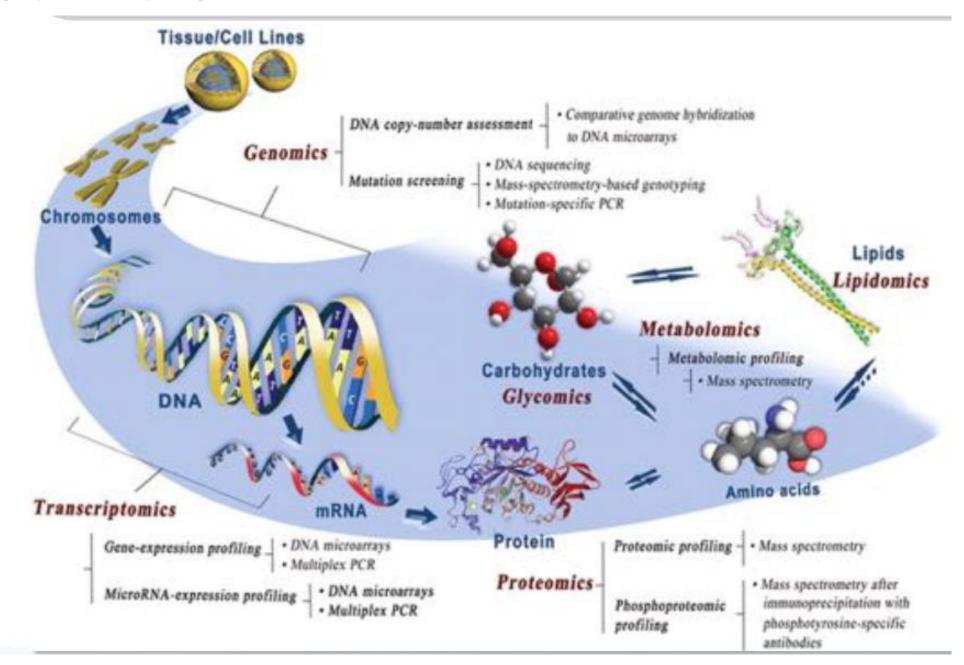
### Protocollo sperimentale

- Selezione dei soggetti
- Numerosità del campione
- Tipologia di strumentazione
- Valutazione clinica





### **OMICS SCIENCES**



# FROM A CONCEPT TO PRODUCT: GENOMIC AS A POTENT AND PROTECTIVE TOOL

**KNOWLEDGES OF PHYSIOLOGY AND PATHOGENESIS** 

**ACTIVE INGREDIENTS SELECTION** 

ACTIVITY SCREENING: GENOMIC ANALYSIS

**NEW CONCEPT** 

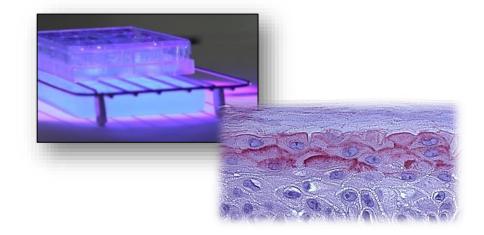
• DEMONSTRATION OF BIOLOGICAL EFFECTS

**CONFIRMATION OF CONCEPT: target** action on factors triggering

- PRODUCT DEVELOPMENT
- EVALUATION ON SKIN MODEL: gene profile analysis

**PROOF OF CONCEPTS: in vivo efficacy** 

#### Inflammasome: PRECLINICAL MODEL



Inflammasome biomarkers can be explored to figure out early biological events of inflammaging: it can be easily induced on 3D reconstructed skin models by relevant UV doses



#### An Efficient Means to Mitigate Skin Inflammaging by Inhibition of the NLRP3 Inflammasome and NfKb Pathways: A Novel Epigenetic Mechanism

Hanane Chajra<sup>1</sup>, Sandrine Delaunois<sup>1</sup>, David Garandeau<sup>1</sup>, Gaelle Saint-Auret<sup>2</sup>, Marisa Meloni<sup>3</sup>, Eunsun Jung<sup>4</sup>, Mathilde Frechet<sup>1</sup>

## **Current Updates in Dermatological Problems**



#### **Research Article**

Semenzato A, et al. Curr Updates Dermatol Probl: CUDP-100003.

A New Synthetic Endocannabinoid as Anti-Inflammaging Cosmetic Active: an *In Vitro* Study on a Reconstructed Skin Model

Semenzato A1\*, Meloni M2, Caviola E2, Galizia G3 and Baratto G4

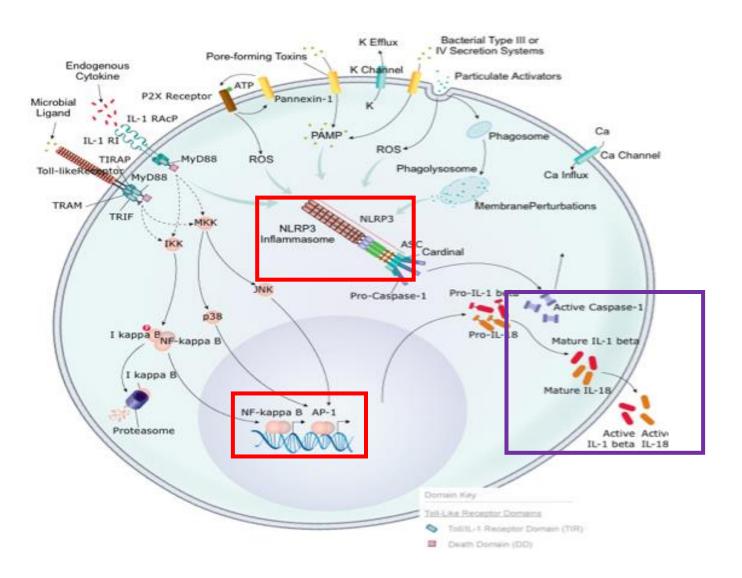
<sup>&</sup>lt;sup>1</sup> Clariant Active Ingredients, Toulouse, France

<sup>&</sup>lt;sup>2</sup> Genel, Grenoble, France

<sup>&</sup>lt;sup>3</sup> Vitroscreen, Milano, Italy

<sup>&</sup>lt;sup>4</sup> Biospectrum Life Science Institute, Yongin-City, Republic of Korea

#### Inflammasome PATHWAYS: Inflammaging



### Relevant in Medicine in almost all therapeutic areas

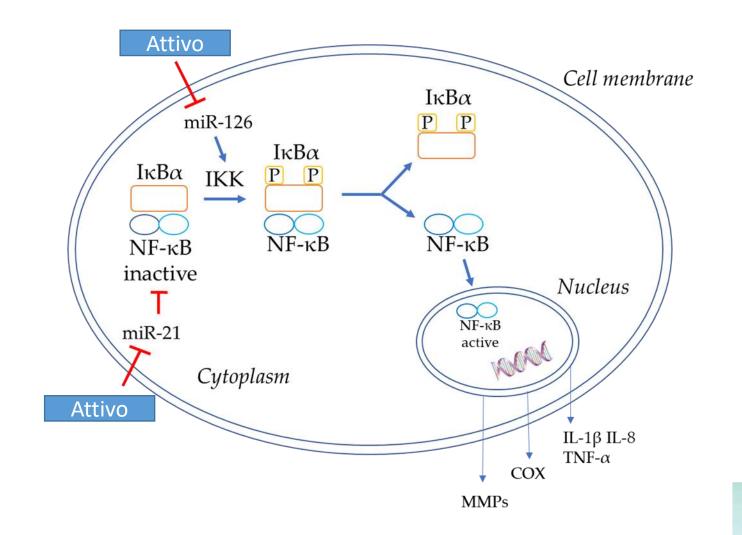
Age-associated low-grade inflammation (inflammaging) is recognised as being a driving force of many age-associated diseases linked to irreversible cellular and molecular damage that **is not clinically evident** because it slowly accumulates over decades.

Inflammaging is believed to be a consequence of a re-modelling of the innate and acquired immune system, resulting both in cumulative lifetime exposure to pro-inflammatory cytokines at older ages and production of reactive oxygen determining modification to skin appearance and involvement in chronic diseases.

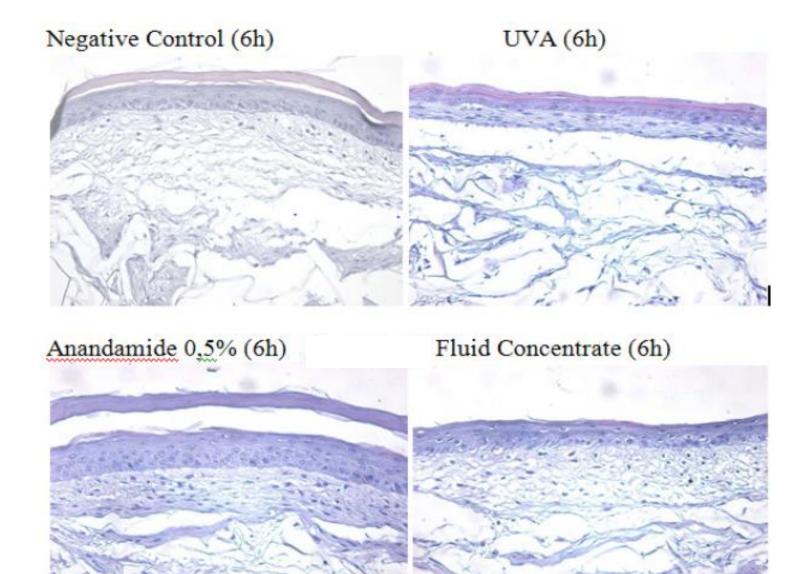
(Baylis et al. Longevity & Healthspan 2013 2:8).

#### Nuovo attivo ANTI - INFLAMMAGING

#### Azione specifica sul mantenimento del BALANCE fisiologico dei microRNA







Endocannabinoid as Anti-Inflammaging Cosmetic Active: an In Vitro Study on a Reconstructed Skin Model. Curr Updates Dermatol Probl: CUDP-100003

Semenzato A et al (2018)

A New Synthetic

Figure 9: H&E staining histology after 6 hours treatment post-irradiation analysed under light microscopy (20x)

#### Valutazione clinica dell'efficacia (scala 0 = scarsa, 1 = lieve, 2 = media, 3 = elevata)

**Tab. 3:** medie, deviazioni standard e confronto statistico (Anova Friedman e Coefficiente di Concordanza di Kendall).

	T <sub>0</sub>	T <sub>6wks</sub>	T <sub>12wks</sub>	p-level T <sub>0</sub> vs T <sub>6wks</sub>	p-level T <sub>0</sub> vs T <sub>12wks</sub>
IDRATAZIONE	media 0,4 dev.st. 0,5	media 1,4 dev.st. 0,5	media 2,1 dev.st. 0,6	p < 0,0001	p < 0,0001
ELASTICITA'	media 0,6 dev.st. 0,5	media 1,5 dev.st. 0,5	media 1,9 dev.st. 0,4	p < 0,0001	p < 0,0001
RUGHE SOTTILI	media 1,9 dev.st. 0,5	media 1,4 dev.st. 0,6	media 1,3 dev.st. 0,6	p < 0,0001	p < 0,0001
RUGHE PROFONDE	media 2,1 dev.st. 0,7	media 1,9 dev.st. 0,8	media 1,8 dev.st. 0,8	p < 0,05	p < 0,01
LUMINOSITA'	media 0,5 dev.st. 0,6	media 1,4 dev.st. 0,5	media 2,2 dev.st. 0,5	p < 0,0001	p < 0,0001
DISCROMIE CUTANEE	media 1,6 dev.st. 0,6	media 1,3 dev.st. 0,7	media 1,1 dev.st. 0,6	p < 0,001	p < 0,0001

Dopo 6 e dopo 12 settimane di trattamento è stato evidenziato un <u>miglioramento</u> <u>statisticamente significativo</u> di tutti i parametri d' efficacia considerati.



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EVIDENCE SUPPORT: THE BUILDING BLOCKS

Sensory tests with self-evaluations by trained expert panels

# Evaluation of Sensory or Performance by Perception Tests

Perception tests provide data that are either:

- **subjective** in nature and affected by individual differences in previous experience with use of similar products, varying expectations of product performance, and differences in behaviour and use of the product, as part of a normal day's routine.
- objective in nature through training to high consistency and validation with others

In-use Test with self-evaluation by consumers

#### IN-USE TEST WITH SELF-EVALUATION BY CONSUMERS



Misurazione della percezione reale soggettiva del consumatore

Immediatezza e semplicità di preparazione dello studio

Permette di profilare il consumatore target Fornisce strumenti di conoscenza del prodotto In PARALLELO con test strumentali per la valutazione di efficacia funzionale



Tempistiche medio-lunghe di organizzazione studio e prova prodotto
Numerosità del campione (>40 persone)
Rischio *bias* nella selezione del campione
Soggettività nei risultati



### SELF-PERCEPTION EVALUATION

T30 - T60

Self-assessment test by answering questionnaires about **efficacy perception**, **sensorial** and **agreeable** characteristics about the product.

Simple and Clear Questions

Questions focused on the study objective in order to support claims & communication.



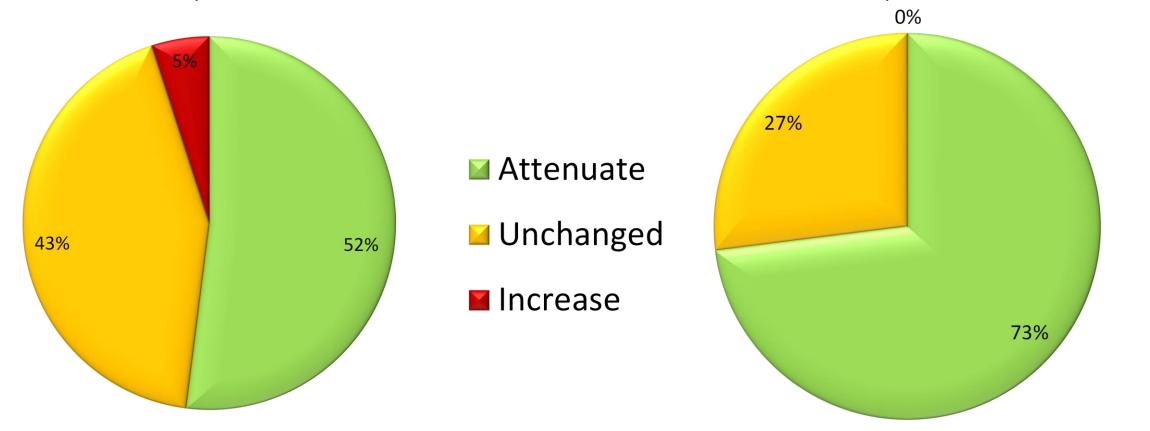
Evaluation ratings easy to understand by the consumer.



#### EFFICACY EVALUATION

''After a treatment of 30 days with the whitening product I see the intensity of the spots'':

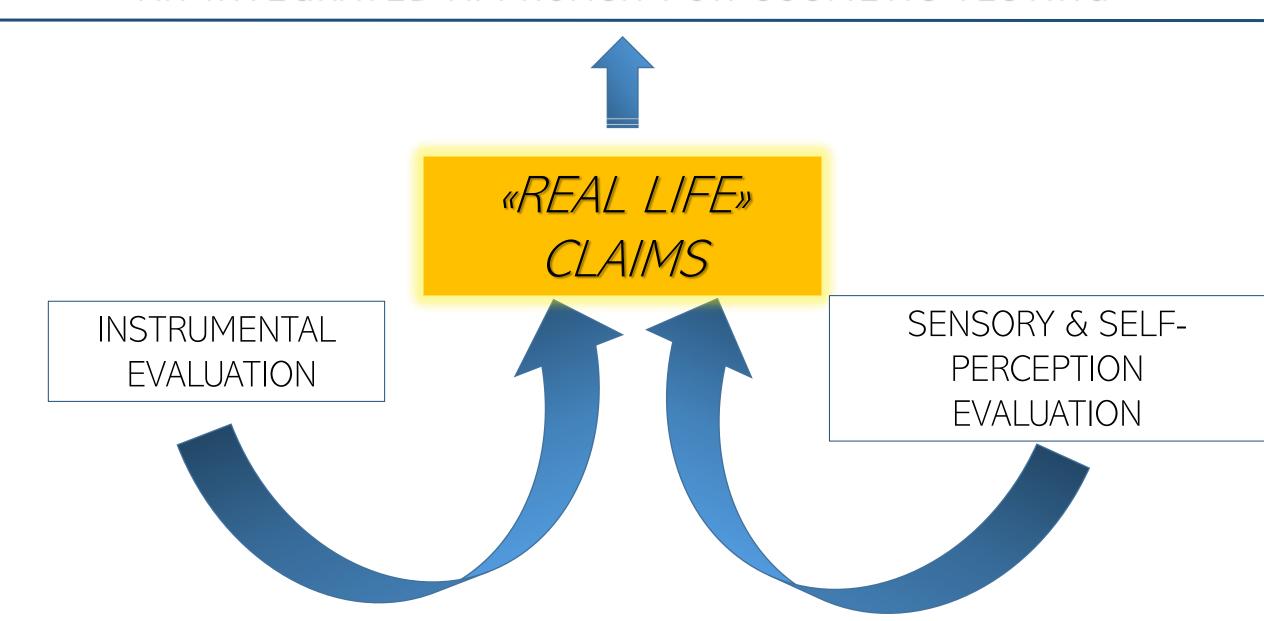
"After a treatment of **60 days** with the whitening product I see the **intensity of** the spots":



#### **EVALUATION**



#### AN INTEGRATED APPROACH FOR COSMETIC TESTING



# Neuroscienze Renessere fisiologico

Benessere fisiologico oggettivo non consapevole

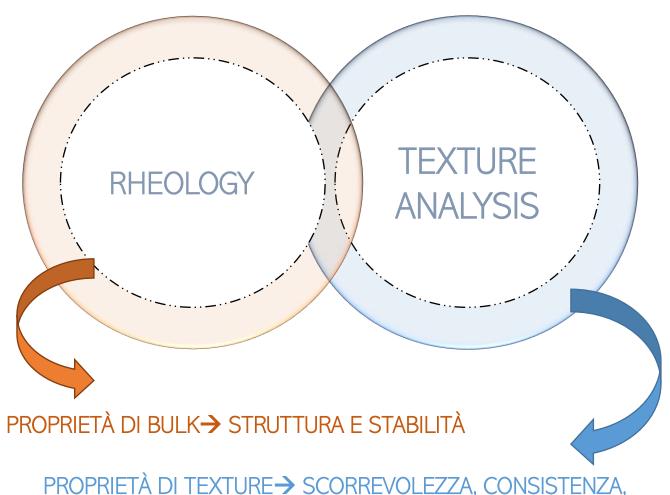
Texture analysis & reologia

Analisi oggettive delle proprietà fisiche

### Panel test

Benessere soggettivo consapevole

### Misure strumentali per valutare le proprietà applicative del prodotto



MISURE COMPLEMENTARI
CORRELATE LLE CARATTERISTICHE
APPLICATIVE ESENSORIALI

Pick-up



Rub out



After feel



PROPRIETÀ DI TEXTURE >> SCORREVOLEZZA, CONSISTENZA, ADESIVITÀ

#### A NEW DESIGN APPROACH

✓ Studio di neuromarketing per creare un nuovo protocollo di valutazione della risposta psico-fisica di benessere e piacere che produce l'applicazione di prodotti skin care.





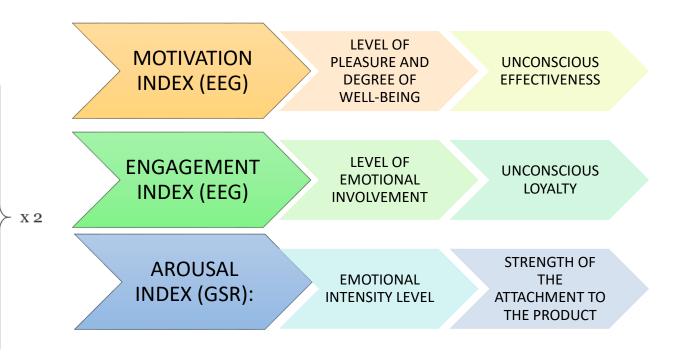
A new design approach for cosmetic sensoriality: using neuromarketing to understand consumer feeling about the "Face Cream Experience"



#### **Baseline** 120 sec. Touch 1 10 sec. **Application** 2 10 sec. Cleaning 3 30 sec. White 5 sec. After-feel 5 5 sec.

#### AIMS of the study

to decode the unconscious response to products and unexpressed needs of consumers to better define marketing strategies and new efficacy claims.



Experimental design

Physiological indexes







Review

# Quality of Life and Disease Impact of Atopic Dermatitis and Psoriasis on Children and Their Families

Chan Ho Na <sup>1</sup>, Janice Chung <sup>2</sup> and Eric L. Simpson <sup>3,\*</sup>

- Department of Dermatology, College of Medicine, Chosun University, Gwangju 61453, Korea; chna@chosun.ac.kr
- School of Medicine, Creighton University, Omaha, NE 68102, USA; JaniceChung@creighton.edu
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Received: 17 September 2019; Accepted: 25 November 2019; Published: 2 December 2019



Abstract: Atopic dermatitis (AD) and psoriasis are common chronic skin diseases affecting children. These disorders negatively impact the quality of life (QoL) of patients in health-related aspects such as physical, psychosocial, and mental functioning. This health impact is more accurately represented when accounting for the numerous comorbidities associated with each disorder, and the impact the disorders have on patients' families. A number of QoL tools have been developed and can be routinely implemented in the evaluation of QoL in pediatric patients and their caregivers. Ways to improve QoL include a multidisciplinary approach to care, education, and psychological support.

**Keywords:** atopic dermatitis; psoriasis; quality of life; QoL tools; multidisciplinary approach; education; psychological support

Table 2. Instruments to assess health-related quality of life (HRQoL) of pediatric patients and their parents/caregivers.

Dermatology-Specific Tools	Disease-Specific Tools			
z camaronegy of contract contract	AD	Psoriasis		
- Dermatology Life Quality Index (DLQI) [30] - Children's Dermatology Life Quality Index (CDLQI) [24] - Infants' Dermatitis Quality of Life Index (IDQoL) [25] - Family Dermatology Life Quality Index (FDLQI) [31] - Skindex-Teen [32] - Toddler Quality of Life Survey [33]	<ul> <li>- Dermatitis Family Index (DFI) [13]</li> <li>- Childhood Atopic Dermatitis Impact Scale (CADIS) [34]</li> <li>- Childhood Impact of Atopic Dermatitis (CIAD) [35]</li> <li>- DISABKIDS Atopic Dermatitis Module (DISABKIDS-ADM) [36]</li> <li>- Parents' Index of Quality of Life in Atopic Dermatitis (PIQoL-AD) [37]</li> <li>- Quality of Life in Primary Caregivers of children with Atopic Dermatitis (QPCAD) [38]</li> <li>- The Quality of Life in Parents of Children with Atopic Dermatitis [39]</li> </ul>	- Children's Scalpdex in Psoriasis [40]		

HRQoL, health-related quality of life; AD, atopic dermatitis.

chotherapy and Applied Mental Health

International Institute for the Advanced

#### **JEPB**

#### THE ASSESSMENT OF SKIN-RELATED QOL IN INDIVIDUALS DISSATISFIED WITH THEIR SKIN: FACTOR STRUCTURE AND RESPONSIVENESS OF THE PADUA SKIN-RELATED QOL QUESTIONNAIRE

Gioia Bottesi, Antonio Gion, Gianni Baratto, Alessandra Semenzato, Giulio Vidotto

#### **Abstract**

The current studies aimed at providing preliminary evidence about the factor structure, reliability, and responsiveness of the Padua Skin-Related QoL (PSRQ) guestionnaire, an Italian self-report measure assessing skin-related Quality of Life (QoL) in people dissatisfied with their skin. The PSRQ was administered to 150 dermatological cosmetics consumers to test its factor structure and internal consistency. A further sample made up of 84 dermatological cosmetics consumers was then enrolled to evaluate the responsive-ness of the PSRQ.

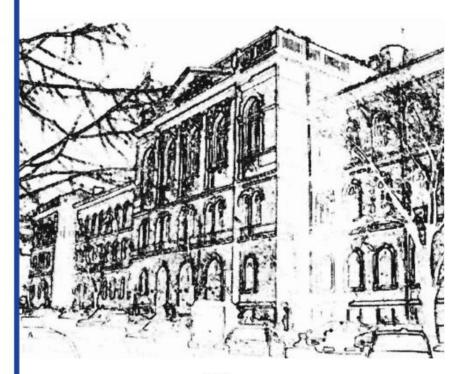
Findings revealed the existence of 4 factors explaining the 54.8% of variance. Thirteen items of the original version were removed because they loaded on more than one factor or they had insufficient loadings; the final version of the PSRQ comprised 50 items, and internal consistency was excellent (.81 <  $\alpha$ s < .95). As regards responsiveness, only the "Positive feelings and emotions" scale resulted to be sensitive to change: individuals in the Experimental group reported significantly higher scores, after using a basic cream, compared to individuals in the Waiting list condition.

Current findings suggest that the PSRQ is a reliable measure capable of assessing multiple aspects of skin-related QoL in the target population. Further studies assessing its psychometric properties in different samples are recommended.

**Keywords:** Health-related Quality of Life; Well-being; Skin; Questionnaire; Psychometrics



### **JOURNAL OF EVIDENCE-BASED PSYCHOTHERAPIES**





«Se usi i tuoi soldi per creare prodotti eccezionali avrai bisogno di spendere sempre meno in pubblicità»

«Non cercare clienti per i tuoi prodotti, ma cerca prodotti per i tuoi clienti»

### Seth Godin

"Fare promesse e mantenerle è un bel modo per costruire un brand"

"Il nemico del marketing è la vendita mordi e fuggi, dove l'obbiettivo è quello di vendere a tutti i costi, invece di acquisire un cliente a lungo termine".

Philip Kotler

"Vi sono due tipi di imprese: quelle che cambiano e quelle che scompaiono."