

Dermocosmetic efficacy of a nutricosmeceutic concentrated oil-soluble fraction from Vitis vinifera grape marc on the skin hydrolipidic barrier and wrinkles



Sonia Laneri, Ritamaria Di Lorenzo, Antonia Sacchi, Fabio Apone, Claudia Zappelli and Irene Dini
University of Naples Federico II, Italy

Abstract

Grapes (*Vitis vinifera*) are one of the most widely-grown fruit crops in the world. Approximately 75% of the whole grape production is utilized into winemaking, while 25% of the original grape weight is grape pomace (skin, seeds and stalks), which is a by-product. The oil-soluble fraction of grape pomace is rich in phenolic compounds including flavonoids, carotenoids, phenolic acids, tannins, and stilbenes, high unsaturated fatty acids, vitamins (E, A and C) and phytosterols with economic importance to cosmetic, food and pharmaceutical industry. The objective of this study was to evaluate the cosmetic efficacy on skin balance, normalization, hydration and elasticity and on wrinkles prevention of dermocosmetic formulations containing grape seed oil extract on young and mature skin using *in vitro* and *in vivo* techniques. *In vitro* studies showed anti-aging effect through enhancement of cell detoxification, hydration, protection of cellular proteins, stabilization of connective tissues from UV-stress inducing hyaluronic acid synthase and stimulating collagen I and III synthesis. *In vivo* studies displayed wrinkles volume and depth reduction and a barrier protective effect inducing a high hydration of the skin.



Fig. 1 Effects of oil-soluble fraction from *Vitis vinifera* grape marc on skin properties.

Biography:

Sonia Laneri has her expertise in chemical synthesis of drugs especially heterocyclic nucleus and pseudohormones, their characterization by spectroscopic methods and their therapeutic application. Moreover, she is Manager of the Research Centre “Centro di Scienze Cosmetiche” – Pharmacy Department, University of Naples Federico II, where efficacy *in vivo* and *ex vivo* studies on cosmetic products were done. Her latest research works are focused on the synthesis and performance of new cosmeceuticals and provitamins for dermocosmetic use.

Speaker Publications: 1. “Plant cell culture extract of *Cirsium eriophorum* with skin pore refiner activity by modulating sebum production and inflammatory response”. *Journal of Phototherapy Research* 2020

2. “*Aloe barbadensis*: A Plant of Nutricosmetic Interest”. *Natural product communications*, July 2020

3. “Validation of Rapid Enzymatic Quantification of Acetic Acid in Vinegar on Automated Spectrophotometric System”. *Journal of Foods*, vol-9, Issue 6, June 2020.

4. “Pharmacological and molecular docking assessment of cryptotanshinone as natural-derived analgesic compound.” *Journal of Biomedicine and Pharmacology*, pg-126, 2020

5) “Dosage of Bioactive Molecules in the Nutricosmeceutical *Helix aspersa Muller* Mucus and Formulation of New Cosmetic Cream with Moisturizing Effect”. *Natural Product Communications*, vol-14, Issue -8, 2019

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