

# **ESOSOMI: NUOVA ED IMPORTANTE ARMA PER LA CORREZIONE DEGLI INESTETISMI**

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Da qualche tempo si comincia a parlare di esosomi, definiti una nuova frontiera nella medicina rigenerativa. Inizialmente eravamo dubbi, perplessi, e pensavamo fosse una grande operazione di marketing, come spesso è avvenuto in passato; una volta conosciute e provate le formulazioni presenti in Italia, siamo rimasti sorpresi per l'efficacia e la velocità delle azioni correttive sia sul viso che al cuoio capelluto. Presentiamo i nostri risultati con proposte di trattamenti combinati sia per la correzione degli inestetismi del viso, sia per le problematiche del cuoio capelluto.

## **EXOSOMES: NEW AND IMPORTANT WEAPON FOR THE CORRECTION OF BLEMISHES**

For some time now we have been talking about exosomes, defined as a new frontier in regenerative medicine. Initially we were doubtful, perplexed, and thought it was a great marketing operation, as has often happened in the past; once we knew and tried the formulations present in Italy, we were surprised by the effectiveness and speed of the corrective actions both on the face and scalp. We present our results with proposals for combined treatments for the correction of facial blemishes, and for scalp problems.

- a) The novel mechanisms and applications of exosomes in dermatology and cutaneous medical aesthetics.  
Xiong M, Zhang Q, Hu W, Zhao C, Lv W, Yi Y, Wang Y, Tang H, Wu M, Wu Y.  
Pharmacol Res. 2021 Apr;166:105490. doi: 10.1016/j.phrs.2021.105490. Epub 2021 Feb 12
- b) Exosomes: the latest in regenerative aesthetics.  
Vyas KS, Kaufman J, Munavalli GS, Robertson K, Behfar A, Wyles SP.  
Regen Med. 2023 Feb;18(2):181-194. doi: 10.2217/rme-2022-0134. Epub 2023 Jan 4.
- c) Treatment options for androgenetic alopecia: Efficacy, side effects, compliance, financial considerations, and ethics.  
Nestor MS, Ablon G, Gade A, Han H, Fischer DL.  
J Cosmet Dermatol. 2021 Dec;20(12):3759-3781. doi: 10.1111/jocd.14537. Epub 2021 Nov 6.
- d) Extracellular vesicle-loaded hydrogels for tissue repair and regeneration.  
Ju Y, Hu Y, Yang P, Xie X, Fang B.  
Mater Today Bio. 2022 Dec 21;18:100522. doi: 10.1016/j.mtbio.2022.100522. eCollection 2023 Feb.
- e) A review of exosomes and their application in cutaneous medical aesthetics.  
Olumesi KR, Goldberg DJ.  
J Cosmet Dermatol. 2023 Oct;22(10):2628-2634. doi: 10.1111/jocd.15930. Epub 2023 Jul 27.