

EPSILINE®

2020

WHAT'S NEW UNDER THE SUN?



2. Prize Category Most Innovative Raw Material

BSB INNOVATION AWARD

URBALYS® in 2018, AQUASILOIL INCA INCHI® in 2019, now it's EPSILINE®'s turn to receive a BSB Innovation Prize in silver, in the category «Most Innovative Raw Material - Natural Product».

PROVEN EFFICACY

IN VITRO ANALYSIS

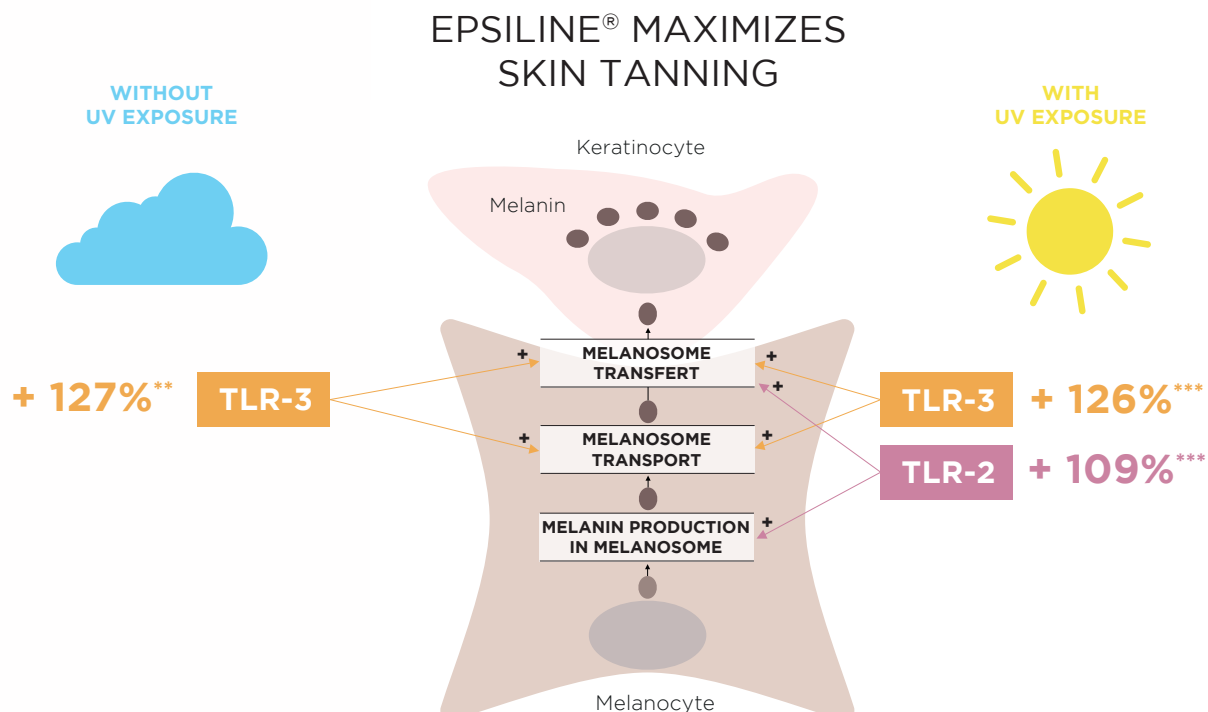
INNOVATIVE MULTI-PATHWAYS APPROACH

After showing its triple protective effect on the skin (antioxidant, anti-inflammatory and a natural protection by melanine), other biological pathways were investigated: the innate immune system.

Toll-like receptors (TLRs) are well-known for their involvement in the innate immune system.

Melanocytes express functional **TLR-2 & TLR-3**, emphasizing that UV-induced skin pigmentation is a natural defensive reaction.

TLR-2 and TLR-3 enhance melanogenesis by controlling both the transport of melanin in melanocytes and its transfer to keratinocytes. (Koike *et al*, 2018)



In Vitro test on melanocytes, with EPSILINE® 0.007% and with or without UVB exposure (20mJ.cm⁻²). Immunodetection.
p<0.01 vs not irradiated and untreated cells.*p<0.001 vs irradiated and untreated cells.

**BY ACTING ON TLR-2 AND TLR-3 IN ADDITION TO BIOLOGICAL MARKERS OF MELANOGENESIS,
EPSILINE® POTENTIATES SKIN PIGMENTATION WITH & WITHOUT UV EXPOSURE,
WHILE PROTECTING SKIN CELLS AGAINST HARMFUL SUN RAYS.**

GREENTECH PIONEERING
ETHICAL
BIOTECHNOLOGIES
WE SOURCE NATURE TO RESOURCE THE FUTURE