

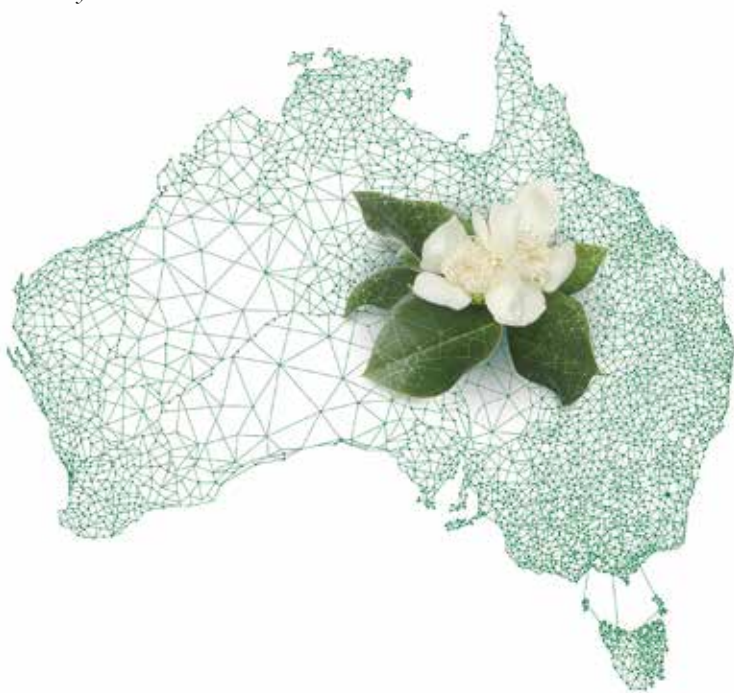
Lipotec's new range of unique botanicals for skin care

We talk with
Olga Laporta, PhD, Technical Marketing Manager
of Lipotec™ Active Ingredients

EURO COSMETICS: *At NYSCC you present a selection of unique botanicals called ACTISMART™ extracts. What makes these extracts so special?*

Olga Laporta: Within the Active Organics® inspired by nature brand, ACTISMART™ extracts is a Lipotec™ Active ingredients' new range composed of an assortment of unique botanicals that have been selected and sourced from different parts of the world for their beauty-enhancing, spiritual and natural benefits and that are also supported with *in vitro* efficacy tests. This trip around the world collecting the most appreciated botanical extracts to bring them to skin care, has the first stop in Asia-Pacific.

EURO COSMETICS: *The new products come from Asia-Pacific with specific skin care benefits. The first one is ACTISMART™ Lemon myrtle. Which properties has the Australia's native plant, Lemon myrtle?*



Olga Laporta

Olga Laporta: Asia-Pacific is a unique region in the world with deep traditional heritage that rely on the use of medicinal plants as a fundamental therapy for many conditions. This is the case of Lemon myrtle, whose leaves – source of minerals, vitamins and phenolic compounds – have been traditionally used by the Australian aboriginals for their potential soothing and anti-inflammatory properties. ACTISMART™ Lemon myrtle is characterized by quercitrin, a glycoside from the quercetin flavonoid, which presents anti-inflammatory properties. It downregulated key inflammasome genes and decreased levels of pro-inflammatory cytokines on keratinocytes as observed *in vitro*, suggesting a reduction in the inflammatory response. In addition, the extract resulted in a lower mast cell degranulation, indicating a reduced allergic response, and thus less skin itching.

EURO COSMETICS: *For which products is the active suitable?*

Olga Laporta: ACTISMART™ Lemon myrtle is perfect for sensitive skin care products and for those where a reduction in inflammation is desired, such as soothing formulations, after sun care products, aftershave formulations, etc.

EURO COSMETICS: *The second product is ACTISMART™ Spikenard. What can you tell us about this plant?*

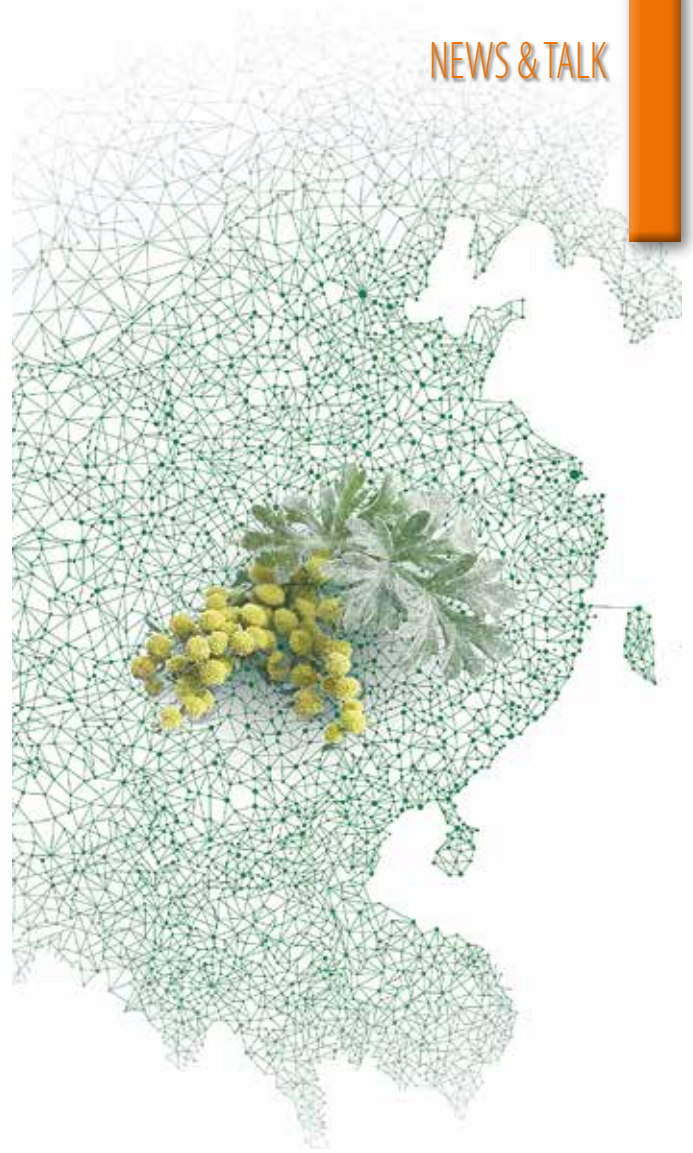


Olga Laporta: Spikenard is one of the most adored yet rare Himalayan herbs. Traditionally used in Ayurveda medicine, it is valued for its ability to calm the mind and bring inner peace, and preparations of the roots improves the skin radiance for a glowing complexion. ACTISMART™ *Spikenard* is characterized by the sesquiterpene desoxo-narchinol A. A downregulation of 33.7% of a gene involved in the paracrine signaling between keratinocytes and melanocytes as well as a reduction in melanin levels in melanocytes by 18.2% were observed *in vitro*, suggesting a brighter and more even skin tone.



EURO COSMETICS: *What is it used for?*

Olga Laporta: Just as Ayurveda used preparations of its roots to improve appearance of skin radiance, ACTISMART™ *Spikenard* can be included in any skin care formulations aiming to improve the skin complexion by providing a brightening effect. It may also



be effective in products targeting pigmentation changes due to natural aging, photodamage or skin conditions.

EURO COSMETICS: *The third product is ACTISMART™ Artemisia coming from Korea.*

What makes this plant so special?

Olga Laporta: Artemisia has a very special story behind. The scientist Ty Youyou discovered that a terpene compound of this plant, traditionally used in Chinese medicine, also efficiently worked at fighting malaria, demonstrating excellent protective effect of the plant. This finding was honored with the Nobel Prize in medicine, but more importantly, saved many lives throughout the world. Artemisia has also been used to help fight infection, inflammation and to boost the immune system.

EURO COSMETICS: *What can you tell us about the effectiveness of this active?*

Olga Laporta: Characterized by the total flavonoid content, ACTISMART™ *Artemisia* upregulated heterodimeric calprotectin components genes for a potentially higher antimicrobial activity and boosted calprotectin levels suggesting a protective effect against pathogen invasion, as showed *in vitro*. It can be used in skin care products aiming to provide a protective and antimicrobial effect to the skin and to reinforce sensitive skin types by helping enhance the skin's own defense system.

EURO COSMETICS: *Thank you for the conversation.* ■