

What was hot in 2015?

This selection of major product launches in 2015 shows a clear trend towards powerful, natural, sustainably-produced active ingredients.



photo: Yuganov Konstantin, Shutterstock.com

In 2015, ingredient suppliers have been very active in launching new ingredients

Active Concepts: AC Kerazyme Protect utilises the natural power of *Trametes versicolor*, a type of mushroom, which contains the oxidative enzyme laccase. This enzyme cross-links free carboxylic acid groups in hydrolysed keratin with the amine groups along the hair cuticle to create a stable network with the hair shaft. Further crosslinks are created by a bio-silicate isolated from bamboo. By forming a scaffold around the hair, a resistant seal is created, preventing loss of colour molecules through physical diffusion. This complex lattice can also help to absorb UV rays, therefore protecting the hair from damage and colour fade. **AMTicide Coconut** is developed by fermenting *Cocos nucifera* (coconut) fruit with *Lactobacillus* to deliver a non-irritating multifunctional product with moisturizing and conditioning benefits for both hair and skin care applications. It is also effective at preventing the growth of fungus, specifically yeast and mould.

www.activeconcepts.it

Air Products: InuMax Advanced Retinol serves as a cost-effective choice for formulators who seek to provide retinol-specific use-level claims. It improves the bioavailability of retinol, which encourages more youthful-looking skin, and it uses advanced technol-

ogy to deliver retinol to deeper skin layers. It also significantly enhances stability of retinol over 28 weeks.

www.airproducts.com/personalcare

Amyris: Neossance Hemisqualane is a sugarcane-derived sustainable alternative to petroleum-based paraffins and fluid silicones. It is a C15 hydrocarbon featuring high spreadability and a very light sensorial feel ideal for natural cosmetic formulations. See COSMA 10/2015, page 40.

www.amyris.com, www.safic-alcan.it

Ashland: Elixance biofunctional, derived from the Peruvian pink pepper tree, helps skin cells fight damage caused by pollution (PM 2.5). It contains sustainably extracted antioxidant polyphenols that increase skin barrier function, reduce pores and sebum and visibly help reduce the appearance of wrinkles.

www.ashland.com

BASF: Cosmedia Ace is a multifunctional polymer for elegant, versatile and cost-effective textures. The easy-to-use liquid thickens, emulsifies and stabilizes a wide range of emulsions. This cold-processable ingredient can be added at any stage of the process and is efficient over a broad pH range; it is renewable-based, ethoxylate-free and suitable for natural cosmetics.

www.personal-care.basf.com/

Brasca: Their eco-sustainable and ethical ingredients include **CytoFruit Waters**, 100% organic active fruit waters, rich in beneficial oligo-elements. **Olifeel Pearls** is a versatile rheology modifier and a replacement for synthetic and semi-synthetic gelling agents for lipophilic phases. Available in a pearl form, it is rich in vegetal saturated C₁₆-C₁₈ triglycerides and unsaponifiables from olive oil.

www.brasca.it

Clariant: Nipaguard SCS is a broad-spectrum liquid preservative blend and a safe and effective alternative to phenoxyethanol, parabens and benzoic acid. Based on three different core technologies, this easy-to-formulate preservative system offers efficacy, product stability and flexibility in formulation. As an anti-ageing active ingredient, **Plantasens Olive Active HP** protects the skin from UV-induced lipid peroxidation, scavenges Reactive Oxygen Species (ROS) and prevents the formation of Advanced Glycation End products (AGEs).

www.clariant.com

Contipro Biotech: Recelline is a new peptide for proteasome activation, allowing efficient degradation of useless or damaged proteins and production of reusable material in the form of short peptide fragments. The most im-

portant result of this recovery system is a defence against UV radiation or environmental pollutants, DNA protection and renewal of extracellular matrix components.

www.contipro.com

Cosphatec: Cosphaderm Propanediol natural is a highly pure (99.5%) and colourless 1,3-propanediol which is produced by a completely non-GMO fermentation process based on RSPO-certified palm oil. The user-friendly ingredient has unlimited solubility in water, a boosting effect for antimicrobial efficiency and good moisturizing properties.

www.cosphatec.com

Greentech: Reverskin is a new anti-ageing active ingredient from Polynesian fern *Microsorium grossum*, working quickly and efficiently to smooth out the microrelief of the skin. It minimises the appearance of wrinkles around eyes as well as the appearance of expression lines by improving the cohesion of the DEJ (dermal-epidermal junction) and helps to restore the density and firmness of the skin.

Aquasiloils (see COSSMA 9/2015, page 38 f.) are PEG-free water-soluble oils, which present the opportunity to use oils in water-based formulations without PEG.

www.greentech.fr

Indena: Quercevita is a Phytosome formulation with sunflower lipids, clinically tested in vitro and in vivo and recognised for its soothing properties on various skin challenges, showing improvement of skin hydration and giving faster relief. Additionally, it has been shown to reduce UVA-induced ROS formation in a human keratinocyte cell line at all tested dosages.

www.indena.com



The no-nano water-dispersable pigment provides cosmetics with the deepest black

photo: Prodotti Gianni

Induchem/Givaudan: Brightenyl was awarded twice this year, with the **In-Cosmetics Barcelona Gold Innovation** award and the **In-Cosmetics Brazil Bronze Innovation** award. The whitening ingredient was designed to be activated by the skin's microbiota after application. Due to its targeted mode of action on seven biological pathways, it shows fast and visible clinical results in 28 to 84 days: up to eighteenfold reduction of UV spots, 150% reduction of skin darkness, 600% reduction of skin redness, and a sixteenfold improvement in skin brightness.

www.induchem.com

Inolex: The biodegradable **Vellaplex** is a natural barrier film for skin care, derived entirely from renewable and sustainable building blocks. It is hydroxyl-functional and as a result provides humectancy as well as an elegant feel from ester groups. It is made using green chemistry principles and is eco-certified. **Spectrastat PHL** and **Spectrastat BHL** are very mild alternative preservation systems for sensitive facial applications.

www.inolex.com

Lehmann und Voss: The non-nano **Instant Carbon 50** from **Prodotti Gianni** has been combined with sodium carbonate to create a granular form, which provides effervescent dispersion into water-based systems in only a few seconds.

www.lehvoss-cosmetics.com
www.prodottigianni.com/

Lipoid: SLM 2038 is a new type of multi-lamellar cream based on the company's **SLM Skin Lipid Matrix** technology. The 100% natural formulation with non-GMO sunflower phospholipids can easily be incorporated in any type of skin-care product and creates a natural skin feeling. The formulation, using skin-identical lipids, mimics both the molecular organization and composition of the stratum corneum intercellular lipids and comprises a biomimetic lamellar lipid structure.

www.lipoid-kosmetik.com

Lipotec: Obtained through biotechnology from a marine microorganism, **Brighlette** marine ingredient acts on the various stages of melanin production and deposition in the skin to regulate its pigmentation. With this many-faceted approach, it can help to brighten the skin and enhance skin

evenness by reducing the contrast and size of hyperpigmented areas.

www.lipotec.com

Lonza: Geogard LSA Preservative Blend is a broad spectrum antimicrobial, comprised of several non-traditional ingredients which have wide global approvals and are easy to use within formulations. It is compatible with most raw materials and has also been shown to be effective in wipes formulations.

www.lonza.com

Lucas Meyer: Exo-P is a biomimetic shield against urban pollution and smog with multi-protective and cleansing action. The exopolysaccharides from French Polynesian *kopara* protect and cleanse skin exposed to polluted outdoor and indoor environments and purify asphyxiated, dull and devitalized



photo: Air Products/Stock

Improved bioavailability of retinol promotes a youthful look

skin. They provide luminous- and healthy-looking skin and prevent pollution-induced irritation and premature ageing by reducing the adhesion of PM2.5 fine particles to the skin and chelating heavy metals.

www.lucasmeyercosmetics.com

Mibelle: CM-Glucan Forte is a new "immune trainer" for skin that helps to calm atopic skin. It is a beta-glucan polysaccharide derived from cell walls of baker's yeast. A controlled carboxymethylation reaction renders the molecule water-soluble and binding of magnesium ions enhances its structural stability. It works by rebalancing the immune response to allergens by rebalancing the Th1/Th2 immune response in atopic skin conditions (AD).

www.mibellebiochemistry.com

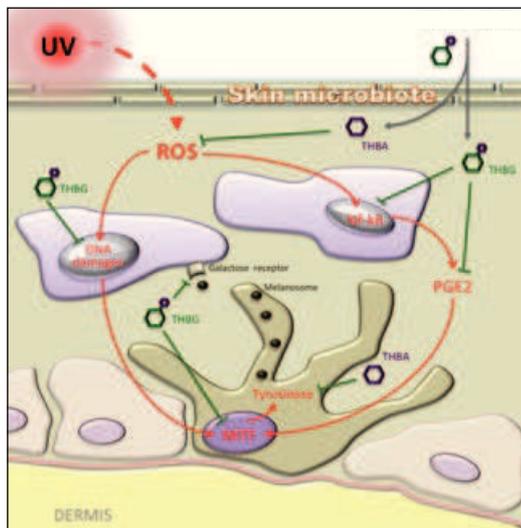


Bamboo charcoal acts as a deodorizer, purifier and humidity controller

photo: Wasanajai, Shutterstock.com

Naturex: Sapnov, formulated with sustainably produced Quillaja saponaria, is a non-ionic, water-soluble, 100% natural foaming agent. Quillaja extracts have soothing and dermo-purifying properties.
www.naturex.com

Naturochim: Premium Organic Coconut Butter is obtained solely from organic coconut oil (Cocos nucifera L.). The coconut oil has high lauric acid content and shows a high affinity for



The whitening ingredient has a targeted mode of action on seven biological pathways

photo: Induchem

skin and hair proteins. The coconut oil nourishes all hair types and imparts softness to the skin. It is especially appropriate for sensitive and irritable skin and dry and damaged hair. Due to its high unsaponifiable and tocopherol content, it has a high oxidative stability.
www.naturochim.com

NCD Ingredients: Marine Bluevital C from **Natura-Tec** is a lipophilic microalgae extract based on *Cylindrotheca fusiformis* dissolved in caprylic/capric triglyceride. It increases collagen synthesis and stimulates the production of important skin proteins, thus creating an anti-ageing effect. **Vari Stan PE** from **Variati** consists of *Garcinia mangostana* peel extract dissolved in natural propanediol. It is an effective natural alternative in deodorant applications with long-term effect (24 h). **Natura-Tec's Abysoft**, a triglyceride ester of phytosterols, is a multifunctional performance-enhancing natural active ingredient that combines the benefits of **Crambe Abyssinica Oil** with the bio-availability of phytosterols.
www.ncd-ingredients.de

Phytare Biotech: Luminia Granatum-PRCF is a powder derived from the cultured plant totipotent cells (a.k.a. plant stem cells) from pomegranate seeds, obtained by the company's Plant Cell Biofactories Technology. It is enriched in characteristic hydroxybenzoic acids and standardized in gallic and ellagic acid. It enhances skin radiance and glow.
www.phytarebiotech.com

SC Group: SpecKareTMBC3000 Bamboo charcoal powder is charcoal made from bamboo plants. As bamboo charcoal's hexagonal structure gives it an enormous surface area to mass ratio, this micro-porous material has good absorptive properties, which make it a deodorizer, purifier and humidity controller.
www.specchemind.com

Sederma: Apiscalp, a multifunctional ingredient dedicated to scalp care, fights against dandruff, itching, dryness and hyperseborrhea to provide beauty and comfort to both oily and dry scalps. It acts by controlling the scalp microflora (*Malassezia*) and by restoring the scalp's epidermal integrity. The innovation lies in its ability to work effectively on both oily scalps and dry scalps.
www.sederma.com

Seiwa Kasei: Amitose 3LGA is a vitamin C derivative which activates ceramide synthesis by improving the intracellular antioxidant system. Its activation of that system works to protect skin from ROS, thus improving essential skin functions.
www.seiwakasei.jp

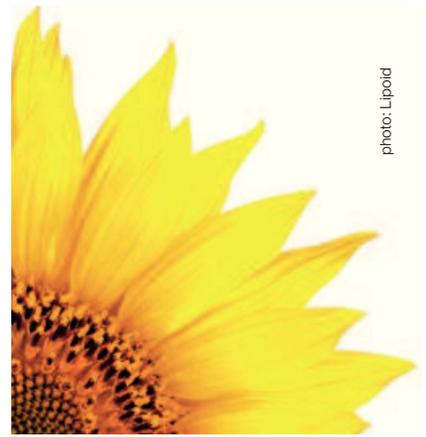


photo: Lipoid

Natural formulation with skin-identical non-GMO sunflower phospholipids mimics both the molecular organization and composition of the stratum corneum intercellular lipids

Seppic: Ephemere is the first cosmetic active ingredient created from **Celebrity**, a new technology to cultivate macroalgal cells in the laboratory in order to offer more active ingredients for cosmetics. The gametophyte extract is harvested during a brief stage in the life cycle of *Undaria pinnatifida* seaweed. During this growth stage, the macroalgal cells accumulate antioxidant molecules. Ephemere protects the skin after 24 hours by acting on the mitochondria, causing momentaneous reduction of free radicals. After eight days, it preserves mitochondrial DNA.
www.seppic.com

Sonneborn: Satin and Elegance are two new emollients based on sensory-enhanced specialty hydrocarbons for use in skin care, cosmetic and pharmaceutical applications. With an increased focus on sensory attributes, fresh and distinctive petrolatum variations deliver maximum moisturization. While traditional petrolatum has high tack and greasy feel, the new soft and silky petrolatums maintain moisture with a more luxurious sensory appeal.
www.sonneborn.com

Thor: Microcare HDI (INCI: Hexamidine diisethionate) is a hydrosoluble cationic preservative powder, safe enough even for baby nappy rash. Although it has broad spectrum anti-microbial activity, it is particularly effective as a fungicide in the control of yeast and moulds. It is generally recommended to be used in combination with other preservatives with enhanced bactericidal properties to boost overall anti-microbial activity.
www.thor.com

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Sustainably produced ingredients from olive fruit oil

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VIP of the Month

Dr Henry Haeusler, Experchem, about new findings for hyaluronic acid gels

