

## Sun Protection Summit

27<sup>th</sup> – 28<sup>th</sup> April, 2017

Brussels, Belgium

### New Approach: Introduction to a new Compound Providing Unrivalled UV Protection

As gathered by a recent research, scientists have developed a novel compound that offers unprecedented protection against the harmful effects of ultraviolet-A (UVA) radiation in sunlight, including photo-ageing, cell damage and cancer. The new substance referred to as the Mitoiron Claw, clings to the insides of cells, and prevents the kind of iron leakage that's triggered by UVA exposure.

Free iron concentration is particularly high within mitochondria, the batteries of the cell, where it is needed for several vital functions. However upon exposure to UVA in sunlight, excess free iron acts as a catalyst for the production of toxic reactive oxygen species (ROS), damaging cell components such as DNA, fat and proteins thereby increasing the risk of cell death and cancer.

The custom-designed iron chelator (a molecule that binds to an iron atom like a claw) moves directly to mitochondria where it safely binds the excess free iron, preventing it from reacting upon exposure to UVA rays. Tests with human skin fibroblast cells exposed to UVA radiation equivalent to 140 minutes of uninterrupted sun exposure at sea level, showed cells treated with the mitoiron claw were completely protected against cell death. Untreated cells suffered significant cell death.

The researchers, hope to see the mitoiron claw compound added to sunscreens and skin care products within 3-4 years. Shedding light on the latest advancements in Suncare domain, Founder/Surgeon and skin cancer and anti-aging expert at Zelens Ltd, at **Sun Protection Summit**, scheduled on 27-28 April, in Brussels, Belgium will present on Recent Updates on Sunscreen Photoprotection. Further, the Summit will witness a dynamic network of Skincare Specialists, Research Scientists, Dermatologists, Skincare Consultants, Regulatory Affair Officials, Formulation Chemists, etc., who will talk about the recent developments in suncare products and latest breakthrough technologies, explore the potential of newly introduced ingredients, etc.

To find more about Sun Protection Summit: [Click here](#)

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Best Regards, Angela Phul, Manager Trade Essential (TE) +44 208 263 6032 [reg@tradeessential.com](mailto:reg@tradeessential.com)  
[www.tradeessential.com](http://www.tradeessential.com)

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