Enviroageing: The Impact of Urban Pollution, Infrared and Visible Light on Human Skin

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The impact of environmental pollution and solar radiation (UV, IR and HEV) are the major contributors to cellular damage, free radical formation and enviroageing.

Until recently, the aesthetics industry has been solely focused on the harmful effects of UV wavelengths of radiation only. However, we are now looking beyond the UV spectrum at the negative impact of infrared light and HEV light (in particular blue light) and the potentially damaging interaction with epidermal and dermal cells.

Moreover, the impact of urban pollution is now recognized as a significant factor contributing to cellular inflammation and extrinsic ageing.

Science is now able to look beyond UV into enviroageing and discover novel ingredients to combat environmentally based cellular damage and inflammation. This presentation investigates the impact of urban pollution and radiation beyond UV on the viability and function of human skin cells:

1. Dermal impact of environmental pollution
2. Discussion of Infrared (IR) light and effect on human cells
3. Overview of UVA and UVB damage and impact on human skin cells
4. Impact of HEV (High energy visible) blue light on dermal viability
5. Protective cosmeceutical ingredients to mitigate enviroageing

Biography:

Terri holds a Bachelor of Science, a post-graduate Diploma of Formulating Chemistry and a Diploma of Education. She is a published author, leading female formulator and an expert in the field of cosmetic science and skincare. She is the founder of Australian brand Synergie Skin, Terri Vinson is dedicated to creating highly active cosmeceutical and intelligent mineral makeup. In accordance with her trademarked 'Clean Science' philosophy, she is dedicated to formulating safe and ethical products that protect, change and nurture skin and promotes long-term dermal health.