

SCG78



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Speaker Abstracts

Session I: Inclusive Beauty





Learnings About Ethnic Hair Fiber Aging: Free Lipids and Proteins

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ABSTRACT

This study explores the critical role of proteins and lipids in maintaining hair health, focusing on ethnic differences in hair chemistry. The research aimed to fill gaps in the existing literature by analyzing lipid composition variations among different ethnic groups and examining changes in proteins and lipids along the hair shaft. Using advanced techniques like HPTLC, SDS-PAGE, and HPLC, the study revealed significant findings, including higher lipid concentrations in East Asian and European hair, with South Africans exhibiting richer surface lipid diversity. Protein analysis suggested increased crosslinking within aging hair shafts, likely due to UV or heat treatments. These results emphasize the importance of tailored hair care strategies, especially for products targeting specific ethnicities, and the need for early protection against environmental damage to preserve hair health and enhance the efficacy of hair care products.



Decoding Textured Hair Consumer Needs to Aid in the Development of Solutions for Scalp and Style Preservation

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ABSTRACT

Textured hair consumers have diverse needs and often experiment with a variety of hair routines and styles. Consumers who wear their hair in protective styles, such as twist outs, braids, or wigs, are seeking solutions that promote a balanced and healthy scalp while also protecting hair against breakage. On the other hand, those who embrace their natural curl pattern are looking for products that aid in hair maintenance and provide long-lasting styling benefits. To address these needs, we developed in-vitro claim techniques that evaluate curl shrinkage and style maintenance from manipulation. Additionally, we conducted in-vivo clinical and consumer evaluations using an inclusive panel of women and men with various hair styles. These evaluations allowed us to effectively substantiate scalp moisturization and reduction of unwanted odor to hair and scalp. By focusing on these key areas, we are able to provide tailored solutions for consumers specific hair care needs backed by data.



Visible Light Transformation by Smart Cosmetic Ingredient to Protect the Skin and Improve Mental Health

Joan Attia, PhD

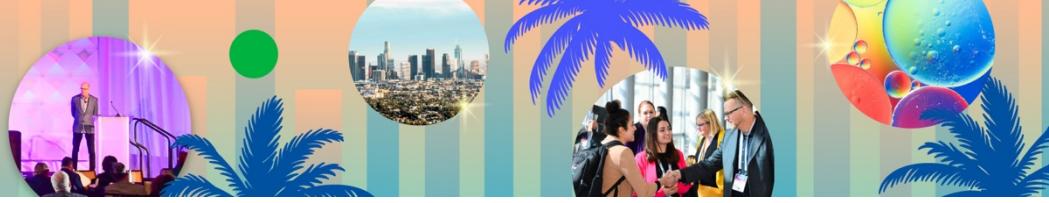
Lucas Meyer Cosmetics

ABSTRACT

Light, from energy source to sensing and communication medium, is essential to life. However, different wavelengths' impact can be both positive and negative. Skin is the organ most exposed to light, from infrared to visible and UV - but in the technological age, this light is increasingly artificial and unbalanced, peaking at 430 nm. Constant unbalanced exposure disrupts skin function and well-being, and emotional states. Spectrum rebalancing may protect skin and improve well-being.

Our work aimed to show that a mixture of fluorochromes, Smart Pigments (SP), specifically designed to rebalance visible light spectra by conversion of some wavelengths (blue light) into higher beneficial wavelengths, can offer well-being benefits to the skin.

SP represents a new category of ingredients, able to capture harmful unbalanced light, such as blue light emitted by digital screens, blocking its effects on skin, and converting it into more beneficial light for both skin and general well-being.



Exploring Beauty Product Accessibility: Rare Beauty for Individuals with Upper Extremity Disabilities

Esther Bae, OTD, OTR/L, CPACC (Modified Independent), Karin Quissell (Rare Beauty), Emily Rosario, PhD (Casa Colina Hospital)

ABSTRACT

This study explores the accessibility of beauty products from Rare Beauty for individuals with upper extremity disabilities. Participants with varied upper extremity impairments used Rare Beauty makeup products over two weeks. Assessments were conducted at enrollment to evaluate hand strength and functional abilities as well as current experiences with beauty products. Quantitative and qualitative data was collected to gather feedback on product usability and satisfaction. We examined the percentage of participants who agreed, disagreed, or remained neutral to the questions regarding the accessibility or usability features of the makeup products, and Chi-square analyses were performed to examine potential relationships between product design elements and the participants' ability level. The study revealed that the majority of participants agreed that various product design aspects, such as bottle shape, cap design, texture, and size, impacted the usability for individuals with impairments in hand and arm function. Notable findings included a higher ease of gripping the Liquid Touch Weightless Foundation bottle for individuals with fine motor skill deficits (Chi-sq = 9.3*) and greater accessibility of the Positive Light Liquid Luminizer bottle for users across all ability levels (Chi-sq = 10.54* and 9.56*). Additionally, individuals with fine motor deficits reported significant ease in using the Kind Words Matte Lipstick (Chi-sq = 9.59*). Overall, the majority of participants found all seven products comfortable and easy to use. The study emphasizes the need for inclusive design in the beauty industry, catering to those with upper extremity disabilities. It reveals the importance of ergonomic and adaptable product features to enhance usability and accessibility.