



RUTGERS' CENTER FOR DERMAL RESEARCH
(CDR) SEMINAR SERIES

Guest speaker: Patricia M. Brieva, PhD

Rutgers, The State University of New Jersey
January 30, 2017 at 5:30pm

Organic Acid Applications within the Cosmeceutical Industry "Chemical Peels"

ABSTRACT:

Chemical peeling is the application of a chemical agent to the skin, which causes controlled destruction of a part of or the entire epidermis, with or without the dermis, leading to exfoliation and removal of superficial lesions, followed by regeneration of new epidermal and dermal tissues (Khunger, 2008). The payoff for this type of office procedure is skin that is improved in elasticity, skin-tone, pigmentation, and texture as a result of the regenerated skin. There are several types of chemical peels generated from variations of organic acid combinations and concentration. The categories are typically categorized as: Alpha-hydroxy, Beta-hydroxy, Jessner, Retinoic, Trichloroacetic acid, and Phenol. The focus of this presentation will present the most well-known technologies.

However, in addition to acids and concentration levels the efficacy of the chemical agents is dependent on the delivery system, solubility, as well as clinical regimen used and protocol.

The outline of the presentation will be as follows:

- Acid Concentrations and Combinations
- Product Development (Formulation Galenics, Acid Solubility, pH)
- Regimen Utilized (Preparation, Dosage Effect, Post-Application Steps)
- Clinical Variables (Panel Selection, Fitzpatrick Scale, Areas of Application)
- Regulatory Position (Domestic and International Regions)

Khunger N. Standard guidelines of care for chemical peels. *Indian J Dermatol Venereol Leprol* 2008;74:5-12

BIOGRAPHY:



Dr. Patricia Brieva joined L'Oreal in 2009, currently a manager within the Actives Division in Skincare holding a PhD in Chemical Engineering at Rutgers University with a thesis in "Quality By Design For Continuous Powder Mixing." Over the course of the last several years Patricia has created new technologies in multiple categories such as anti-aging, anti-oxidants, cosmeceuticals, and daily SPF (OTC) products. Developing new global innovative formulations such as: SkinCeuticals Resveratrol BE, Triple Lipid Restorative 2:4:2, H.A. Intensifier, and Advance Corrective Peel. She has patents granted and several current applications with novel emulsion processes and ingredient associations. Furthermore, a recipient of the American Chemical Society 2015 Young Investigator's Award and a selection panel member in L'Oreal's Women of Science Program.

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