

Skin Moisturization & Moisturizing Products: Where is water in the skin?



Day: Tuesday, February 28, 2010 **Time:** 11:00 a.m.–12:30 p.m. (ET)

Location: Your Computer **Offering #** 1202-506 **Priority Code:** 520

(Available On-Demand starting 2/29/12)

WHO SHOULD ATTEND

This online training is intended for Professionals in the skin care industry; Cosmetics, Personal Care and Pharmaceuticals that focus on:

- Research and Development
- Formulations
- Regulatory
- Marketing and sales

LEARNING OBJECTIVES

Upon completion of this training, you will be able to:

- Review current knowledge on location of water in the skin and the water gradient
- Explain the chemical nature and function of water binding molecules
- Describe the term "Trans Epidermal Water Loss" and its relation to skin barrier integrity
- Review key mechanisms of moisturizing products, their advantages and drawbacks

COURSE DESCRIPTION

In the Cosmetic and Personal care market almost every facial or body lotion is claimed to be a moisturizer. Even if its main claimed purpose is "anti-aging" or "cleansing" it is often also claimed to utilize a moisturizing activity. A moisturizer is a product designed to restore and maintain optimum hydration of the outermost layer of the skin, the stratum corneum. What is the "optimum level" of water in the skin? Where is water in the skin and how is it stored? What molecular structures bind it in the different skin layers? What are the physical and chemical mechanisms that allow enhancing moisturization and what can happen if we moisturize the skin too much?

In this 90 minute **accredited** online session we will review the current knowledge about the location and role of water in the skin, its evaporation rate and ways to maintain optimal amount of water to prevent dryness and preserve a healthy, strong barrier.

Review of Learning Objectives

Module 1:

- Water gradient in the skin:
 - Stratum corneum
 - Living epidermis
 - Dermis
- Intercellular lipids and bound water

Module 2:

- Natural moisturizing factors (NMF's)
- Aquaporins
- Barrier integrity and moisture content- TEWL loss and beyond
- Sebum and skin dryness

Module 3:

- Moisturizing products in the skin care market
- Mechanisms for moisturization:
 - Occlusion
 - Water binding
- Long term moisturization claims: a benefit or a drawback?- aspects in innate immunity
- Summary

Question and Answer Session

TUITION AND REGISTRATION

TUITION* – **Single Rate:** U.S. \$295.00 per person **Group Rate:** U.S. \$245.00 per person**

Register at www.cfpa.com. Enter **Course Offering #1202-506** into **Quick Jump**. To register use **Priority Code: 520**.

For Questions and Information call Customer Service at 732-613-4500.

Please Note: Multiple participants are not authorized to share access provided to a single registrant, a single dedicated seat license must be purchased for each individual. CfPA reserves the right to cancel access or collect the group rate payment if this requirement has been violated. Only registered participants will receive accreditation.

System Requirements: PC-based attendees: Windows(R) 7, Vista, XP or 2003 Server/Macintosh(R)-based attendees: Mac OS(R) X 10.4.11 (Tiger(R)) or newer

For more information see reverse side →



CfPA

The Center for Professional Advancement
Accredited Technical Training Worldwide

PO Box 7077, East Brunswick NJ 08816
Phone 732-238-1600 • Fax 732-238-9113

www.cfpa.com

COURSE DIRECTOR

Dr. Nava Dayan, Skin Care Research Expert

Dr. Nava Dayan earned her Ph.D. in Pharmaceutics from the Hebrew University in Jerusalem specializing in skin delivery. She is currently an Associate Adjunct Professor in the Ernest Mario School of Pharmacy at Rutgers University, and the Research and Development and Safety Assessment Director at Lipo Chemicals Inc. During her 24 years of experience she has specialized in a variety of areas related to skin treatment:

- The research and understanding of the interaction between topically applied compounds and the skin
- Findings in skin biochemistry and especially the upper layer of the skin- the stratum comeum
- Delivery of active compounds into and through the skin and the development of delivery systems to facilitate transport, improve bio-availability and reduce toxicity
- Design and development of topically applied formulations
- Design of clinical studies to substantiate market claims and to assure safety
- Academic teaching and lecturing
- Industrial experience in both development of active compounds, delivery systems and finished formulations
- Skin absorption studies in vivo and in vitro for safety/efficacy assessment
- In vitro methodologies for safety assessment of topically applied compounds

Dr. Dayan has received numerous awards of excellence for various papers she has authored. A technology developed by Dr. Dayan is the recipient of the Gold Award for Innovation at the 2011 In Cosmetics European Show. She is the author and co-author more than 150 publications including book chapters and was granted 8 patents. She is also the editor of the "Skin Aging Hand Book" published by Elsevier; "Innate Immunity of Skin and Oral Mucosa" Book co-edited with Prof. Philip Wertz, "Formulating Skin Care with Natural Products" Book co-edited with Dr. Lambros Kromidas; both published by Wiley and sons. Dr. Dayan is a member of the Dermatopharmaceutics Focus Group, and the Abstract Review Committee for the American Association of Pharmaceutical Scientists (AAPS). She is serves as the Educational Chair of the NYSCC Chapter and on the Scientific Advisory Board of Health Beauty America Expo and the Center for Dermal Research at the Center for Biomaterials. Dr. Dayan teaches at Rutgers University and is the Director of a variety of courses at the Center for Professional Advancement.

ACCREDITATIONS



The Center for Professional Advancement has been approved as an Authorized Provider by the International Association for Continuing Education and Training (IACET), 1760 Old Meadow Road, Suite 500 McLean, VA 22102. In obtaining this approval, The Center for Professional Advancement has demonstrated that it complies with the ANSI/IACET Standards which are widely recognized as standards of good practice internationally. The Center for Professional Advancement is therefore authorized to offer IACET CEUs for its programs that qualify under the ANSI/IACET Standards. CEUs will be awarded only upon successful completion of the course, i.e., attendance at essentially all the formal training and a minimum score of 70% on the assessment. The Center for Professional Advancement is therefore authorized to offer IACET CEUs at a rate of .1 CEU per contact hour (rounded to the nearest tenth) for its programs that qualify under the ANSI/IACET Standards.

WHO WE ARE

The Center for Professional Advancement (CfPA) is the largest accredited technical training organization in the world with a curriculum of approximately three hundred and fifty short courses in 18 industries including Pharmaceutical, Biotechnology, Medical Device, Chemical, Cosmetics, Food and more.

Since our founding in 1967, we have successfully trained nearly a half million people worldwide in topics ranging from basic and introductory concepts to new advances and cutting-edge technology, and current U.S. and European regulations. CfPA courses are offered in a variety of formats – Public offering, Client Site and Online – to fit you or your company's training needs.

For more information visit our website at www.cfpa.com

COURSES OF INTEREST

- **Introduction to Skin Aging–An Online Course**
course ID# 2125
- **Pathways to Skin Penetration**
course ID# 2149
- **Safety Assessment of Cosmetic Ingredients and Formulations: The Basics–An Online Course**
course ID# 2488
- **Skin Product Development**
course ID# 1050
- **Skin Biochemistry Basics (First in a 3-Part Series)**
–An Online Course
course ID# 2485
- **Skin Biochemistry Basics (Second in a 3-Part Series)**
–An Online Course
course ID# 2486
- **Skin Biochemistry Basics (Third in a 3-Part Series)**
–An Online Course
course ID# 2487

TERMS AND CONDITIONS

***Payment:** Tuition payable in US funds net of all charges. Payment is due at time of registration in the form of a credit card. Please contact CfPA's Customer Service for other payment options.

****Group Rate:** The Group Rate is for two or more enrollments, up to five registering from the same company at the same time. For groups of six or more, please contact Customer Service for group pricing.

Cancellations/No Show: "Live"- Registrants may cancel up to two working days prior to the course start date and will receive a letter of credit to be used towards a future course up to one year from date of issuance. No credit will be issued for no-shows and/or cancellations less than two working days prior to the course. : **"On-Demand"**- No refund or credit will be issued for no-shows and/or cancellations of on-demand training courses. CfPA is not responsible for any outside related costs incurred by registrant's cancellation.