

Effects of Psychological Factors and Stress on Skin Inflammatory Disorders

Location: Your Computer **Offering #** 0910-701 **Priority Code:** 520

WHO SHOULD ATTEND

This course is intended for individuals that are in the field of skin care/ psychology especially within the following areas:

- Pharmaceutical
- Cosmetics
- Dermatology
- Psychology/psychotherapy

LEARNING OBJECTIVES

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

- List the key factors in skin innate immunity
- Describe the biochemical cascade that is initiated upon stress
- Identify the connection between psychological stressful conditions and exacerbation of three major skin inflammatory diseases: atopic dermatitis, psoriasis and acne

COURSE DESCRIPTION

The connection between one's psychological/emotional condition and his physical state is well known. Still, only very little is explored in terms of understanding the biochemical changes upon stress that cascade to a diseased/disordered circumstance. It was found that many of biochemical markers expressed in stress, lead to inflammation in the entire body and may be visualized as alterations in skin condition.

In addition, past decade research shows that the upper layer of the skin, the stratum comeum, holds a major role in skin immunity as the first line of defense against pathogenic insult. Psychological condition can attenuate skin innate immunity.

This 90-minute **accredited** online course will define factors involved in skin innate immunity and review recent findings on the connection between psychological stressful situations, and exacerbation of inflammatory skin disorders such as acne, psoriasis and atopic dermatitis.

Module 1:

Skin innate immunity

- Definition
- Factors involved:
 - Skin barrier – Microflora
 - Sebum secretion – Lipids and peptides

Skin inflammatory disorders- description

- Atopic dermatitis
- Acne
- Psoriasis

Module 2:

Effect of psychological stress on hormonal and immune systems

- HPA Axis
- Neurogenic inflammation and substance P

Effects of stress on

- Atopic dermatitis
- Psoriasis

Module 3:

Effects of psychological stress on sebum secretion and acne

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 #0910-701** 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.



CfPA

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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 an Associate Adjunct Professor in the Ernest Mario School of Pharmacy at Rutgers University. During her 20 years of experience she has specialized in a variety of areas related to skin treatment including:

- 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 corneum
- 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. She is the author and coauthor of more than 80 publications. Dr. Dayan is a member of the Dermatopharmaceutics Focus Group, and the Abstract Review Committee for the American Association of Pharmaceutical Scientists (AAPS) and the Consumer Products Group of the International Controlled Release Society (CRS). She is also a member of the US Society of Cosmetic Chemists and the chair of the Annual Cosmeceuticals Summit Symposium. Dr. Dayan teaches at Rutgers University and is the Director of several public and online 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), 8405 Greensboro Drive, Suite 800, 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. As a result of their Authorized Provider membership status, The Center for Professional Advancement is authorized to offer IACET CEUs 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

- **Guidelines for Skin Absorption Studies**
course id# 2220
- **Guidelines to In Vitro Skin Absorption Studies –An Online Course**
course id# 2202
- **Introduction to Skin Aging –An Online Course**
course id# 2125
- **Natural Ingredients in Formulating Skin Care Products –An Online Course**
course id# 2239
- **Pathways to Skin Penetration**
course id# 2149
- **Skin Inflammation from Triggers to Aging**
course id# 2274
- **Skin Inflammation – Reasons, Prevention, Treatment and Testing–An Online Course**
course id# 2217

ABOUT ON-DEMAND:

Our pre-recorded on-line training courses are available for viewing at your convenience at your computer. Register for a CfPA on-demand course, your registration will be processed within two (2) business days, after payment and registration are complete you will receive an email from olinetraining@cfpa.com with your password to access the on-demand course. You will have two (2) business days to view the course. You MUST complete all polls and the course evaluation to receive your accreditation certificate for this course.

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.