

# Toxicokinetics and Skin Metabolism Testing: Compliance with REACH and the 7th amendment

Location: Your Computer Offering # 0909-702 Priority Code: 520

## WHO SHOULD ATTEND

Professionals in the cosmetic and personal care or related industries that work and specialize in the following disciplines, as well as groups or companies that provide services in skin care in the following fields:

- Research and Development
- Regulatory Affairs
- Safety Assessment
- Product Development
- Formulations Development

## LEARNING OBJECTIVES

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

- Describe the circumstances in the industry that led for the need of in vitro safety testing
- Recognize key parties involved in influencing policies in Europe and the US
- List the key models available for studies
- Identify the portfolio of studies to conduct, their rationale, scope and possible complications
- Specify important parameters and considerations of toxicological relevance

## COURSE DESCRIPTION

In the current environment of establishing regulations and environmental issues awareness, an effort is put together to offer guidance to individuals in the industry who are concerned with present approaches and future implications. With the unique position of the cosmetic and personal care industry on animal testing ban and emergence of REACH, this 90-minute accredited training is designed to present key parties involved, their positions, market leads and sources for information.

When applied to the skin and penetrates, a compound may be prone to metabolism that will convert it to an inert, more potent or toxic substance. It can also change its distribution and excretion profile. While skin metabolisms can be determined using cultured human cells, skin homogenate or microsomes or full thickness human skin, no method was officially validated. ESAC estimates that a method will not be validated before 2012. This course will review the skin as a metabolic organ, describe regulatory status and look into optional testing.

### Module 1 – Definitions:

- Toxicokinetics
- Skin metabolism
- Is the skin a metabolic organ?
- Passing first pass effect

### Regulatory status

- ECVAM- ESAC position
- ICCVAM position

### Module 2:

- Skin penetration
- Testing for systemic metabolism

### Module 3:

- Cultured human cells
- Skin homogenates or microsomes
- Full thickness human skin

### Summary and future direction Questions 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](http://www.cfpa.com). Enter **Course Offering #0909-702** 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.

For more information see reverse side →



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## COURSE DIRECTOR

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**Dr. Nava Dayan**, Skin Care Research Expert

Dr. 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 R&D Director at Lipo Chemicals Inc. During her 22 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 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 co-author more than 100 publications including book chapters and was granted 7 patents. She is also the editor of the "Skin Aging Hand Book". 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 serves on the advisory board of the NY Chapter of the Society of Cosmetic Chemists, CAAT at John Hopkins University and Health Beauty America Expo. Dr. Dayan chairs the Annual Cosmeceuticals Summit Symposium. She teaches at Rutgers University and is the Director of a variety of courses at the Center for Professional Advancement.

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## ACCREDITATIONS

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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.

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## WHO WE ARE

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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](http://www.cfpa.com)

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## COURSES OF INTEREST

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- **Natural Ingredients in Formulating Skin Care Products–An Online Course**  
course id# 2239
- **Pathways to Skin Penetration**  
course id# 2149
- **REACH: Registration, Evaluation and Authorization of Chemicals**  
course id# 2145
- **Skin Inflammation from Triggers to Aging–An Online Course**  
course id# 2274
- **Skin Inflammation – Reasons, Prevention, Treatment and Testing–An Online Course**  
course id# 2217
- **Skin Product Development**  
course id# 1050
- **Testing for Cytotoxicity-Compliance with REACH and the 7th amendment –An Online Course**  
course id# 2278

### 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](mailto: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.

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## TERMS AND CONDITIONS

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**\*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.