

Testing for Genotoxicity, Mutagenicity and Carcinogenicity: Compliance with REACH and the 7th Amendment

Location: Your Computer Offering # 0912-705 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

With the unique position of the cosmetic and personal care industry of animal testing ban and emergence of REACH, this course is designed to present key parties involved, their positions, market leads and sources for information.

Compounds that can change the genetic information of a living cell may lead to mutations. These can result in different type of toxic effects, ranging from cell death to the development of a malignant tumor. While a variety of methodologies are currently in use in the area of regulatory genotoxicity, substantial in vivo testing is still required for the confirmation of genotoxic prediction. For the evaluation of carcinogenicity, the only accepted test by regulatory agencies is the in vivo two year bioassay. Therefore, in 2004, ECVAM initiated several activities related to the validation of alternative methods and applied research.

The core of the course is focused on the understanding of current available methodologies, their scope and limitations, including:

Module 1:

- Definitions
 - Genotoxicity/Mutagenicity
 - Carcinogenicity
- Relevance to the industry
- ECVAM's position
- ICCVAM's position

Module 2:

- Testing for Genotoxicity/Mutagenicity:
 - Human Hepatocytes Model
 - COMET assay in 3D skin model
 - BALB/c 3T3 model
 - Chromosomes aberration test

Module 3:

- Testing for Carcinogenicity
 - The in vivo two year bioassay
 - Cell transformation assay in BALB/c 3T3 and SHE
 - Micronucleus test

Summary and Future Direction
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 #0912-705** 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

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 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. 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 is 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.

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

- **Skin Product Development**
course ID# 1050
- **Pathways to Skin Penetration**
course ID# 2149
- **Skin Inflammation – Reasons, Prevention, Treatment and Testing–An Online Course**
course ID# 2217
- **Topical Antiseptic Product Development–An Online Course**
course ID# 2219
- **Guidelines for Skin Absorption Studies**
course ID# 2220
- **Natural Ingredients in Formulating Skin Care Products–An Online Course**
course ID# 2239
- **Skin Inflammation: From Triggers to Aging**
course ID# 2274
- **Testing for Eye Irritation and Corrosion: Compliance with REACH and the 7th Amendment–An Online Course**
course ID# 2276

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 olinettraining@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.