

Skin Biochemistry: The Skin Microbiome

DIRECTED BY

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ACCREDITED
COURSE

- Importance of microorganism
- Addressing beneficial and negative effects of body micro-biome
- Skin conditions and microorganisms
- Examples of specific targeting

about the course

The development of skin care products presents a dual challenge: they must resist contamination by foreign micro-organisms, while also preserving the existing micro-flora (or microbiome) on the skin. Furthermore, changes in the micro-biome can lead to unwanted skin conditions.

This 90-minute, accredited training will

- Provide some insight into a few human microbiota (guts, vagina, skin, solid tumors)
- Inspect the resident microorganisms, their enzymes, and metabolites in the stratum corneum.
- Describe the interest of these micro-organisms for cosmetic products and for maintaining a healthy state of the epidermis
- Provide examples for selective interventions
- Discuss the relevance of preservatives

Experience top-notch training LIVE from an industry expert that goes beyond traditional lectures. You will engage in an interactive and stimulating learning experience that will help develop the skills needed to excel in the field.

Those attending the LIVE training event must have a webcam on their computer equipped with a microphone and speakers/headset to fully participate.

Maximize Learning! Take this Course and Its Companion Courses:

Skin Biochemistry: Epidermis and Dermis Cells and Skin Types | **course ID# 2485**

Skin Biochemistry: Epigenetics, Gene Expression and Epidermal Enzymes | **course ID# 2486**

who should attend

This course is intended for professionals in the cosmetic and personal care industry, pharmaceutical skin care and skin care-related medical devices. It will be especially valuable for:

- Professionals with a background in Physics and Chemistry who wish to strengthen their knowledge in Biology
- Professionals committed to Marketing/ Sales/ Production/ QC/QA/ Regulatory
- Formulation chemists

learning objectives

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

- Recognize the importance of microorganism residing on the skin
- Quote a few examples of the pharmacological relevance of the microbiome
- Explain how the knowledge of the microbiome can help one to prepare new skin care products
- Discuss the effects of microorganism on skin conditions

course outline

Review of Learning Objectives

Module 1

- An overview of the microorganisms colonizing the human body
- Gut Microbiome and Obesity
- Microbiome and pharmacological efficacy

Module 2

- Summary description of the micro-organisms colonizing human skin
- Skin conditions and microbiome composition
- Examples of selective targeting of components of skin microbiome
- Possible actions to prepare skin care products to address beneficial or negative effects of skin microbiome

Module 3

- The relevance of preservatives
- Discussion on questions about preservatives

Question and Answer Session

Assessment Opportunity

course instructor

Dr. Paolo Giacomoni is an independent consultant to the Skin Care industry. He is a quality-focused leader with over 25 years of experience in product research and development for cosmetic product providers. He is presently Head of R&D with L-Raphael, Geneva, Switzerland. He was Chief Scientific Officer of Elan Rose International. He served as VP of Skin Care World Wide R&D with Herbalife. He was Executive Director R&D with Estee Lauder and served as scientific spokesperson for Clinique. During his tenure at L'Oreal he served as Head of the Department of Biology and then as scientific attaché to the Director of Applied Research. In his academic years, he was Maître de Conférences at the University of Paris, France, and Visiting Professor at the University of Milano, Italy.

Dr. Giacomoni has been Editor-in-Chief of the Journal of Cosmetic Science for the years 2017-2020.

Dr. Giacomoni is fluent in French, Italian, German, Spanish and English and is the author of 100+ publications and patents representing breakthrough industry concepts. He received his Ph.D., in Biochemistry from UNIVERSITY of PARIS, Paris France; his Master's Degree in Atomic Physics from UNIVERSITY of MILANO, Milano, Italy and has had Post-Doctoral Training at Deutsches Krebsforschungszentrum at Heidelberg, Germany, at the University of Wisconsin, Madison, WI and at the University of California, San Diego, CA.

Accreditations



International Accreditors for Continuing Education and Training (IACET)

Cobblestone has been approved as a CEU Accreditor by IACET and awards CEUs for participation in qualified courses. Cobblestone has demonstrated that it complies with the ANSI/IACET Standards and is authorized to offer IACET CEUs for its programs. CEUs will be awarded for participation in Cobblestone's courses at the rate of .1 CEU per contact hour upon successful completion of the entire course and 70% accuracy in the required Learners' Assessment. A minimum score of 80% is required for all courses within a Cobblestone Certification Program. This course offers a total of 1.5 contact hours or .2 CEUs. For further information, visit www.iacet.org