

# Skin Biochemistry: Epidermis, the Dermis Cells and Skin Types

#### DIRECTED BY

Paolo Giacomoni, Ph.D., Consultant to the Skin Care Industry



## about the course

Skincare products face the dual challenge of being compatible with the nature of the epidermis while also addressing unwanted skin conditions.

In this 90-minute accredited training, participants will gain an understanding of the epidermis, including its structure, function, and cell population. The training will also cover two of the skin's major functions: differentiation and pigmentation, including melanogenesis.

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: Epigenetics, Gene Expression and Epidermal Enzymes | course ID# 2486
- Skin Biochemistry: The Skin Microbiome | course ID# 2487



who should attend learning objectives	<ul> <li>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: <ul> <li>Professionals with a background in Physics and Chemistry who wish to strengthen their knowledge in biology</li> <li>Formulation Chemists</li> <li>Marketing/Sales/Production/QC/QA/Regulatory</li> </ul> </li> <li>Upon completion of this course, you will be able to: <ul> <li>Explain the basics of skin structure, the epidermal layers, and some of their main functions</li> <li>List and describe the different cells in the epidermis</li> <li>Illustrate two of the major skin functions and their biochemical cascade: interface and</li> </ul> </li> </ul>
course outline	melanogenesis Review of Learning Objectives Module 1: The epidermis as a self-renewing tissue: Exfoliation • Stratum corneum, enzymes, amino acids, and other molecules • Stratum Basale: Living epidermis
	<ul> <li>Module 2: Cell morphology, Cellular components</li> <li>Keratinocytes and Skin stem cells, if any, Melanocytes and Melanogenesis</li> <li>Module 3: The epidermis as interfaces with the external world</li> <li>Merkel cells and the sensation of touch Langerhans cells and tidbits about the skin's immune system</li> <li>The Dermis/Cosmetic definitions of Skin Types and Conditions providing beneficial effects by topical application of products</li> </ul>
	Question and Answer
course instructor	Assessment Opportunity 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.
	<ul> <li>Dr. Giacomoni has been Editor-in-Chief of the Journal of Cosmetic Science for the years 2017-2020.</li> <li>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.</li> </ul>

For information on pricing, terms/conditions, Team Training, and other courses, please visit **www.TrainwithCobblestone.com** 



## 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

