9th World Congress on

DERMATOLOGY & COSMETOLOGY

June 15-16, 2026 | Paris, France

Skin Aging and the Exposome: Innovative Strategies for Dermatological Health and Cosmeceutical Development

Jean Krutmann
Heinrich Heine University Düsseldorf, Germany

Skin aging is influenced by both intrinsic biological processes and extrinsic environmental factors collectively known as the exposome, including ultraviolet radiation, air pollution, climate, nutrition, and lifestyle. This presentation explores recent advances in understanding the molecular mechanisms of skin aging, oxidative stress, inflammation, and epidermal barrier dysfunction. Emerging research has identified novel biomarkers that improve the assessment of skin health and guide personalized dermatological treatments.

The session discusses innovations in antioxidant-based skincare, bioactive cosmetic ingredients, peptide technology, stem cell-derived products, and microbiome-targeted therapies that promote skin regeneration and healthy aging. Advances in artificial intelligence, non-invasive skin imaging, and precision dermatology are also improving clinical diagnosis and cosmetic treatment planning. Future perspectives include personalized skincare, sustainable cosmetic formulations, and regenerative dermatology aimed at enhancing skin health across diverse populations.

Biography

Jean Krutmann is Professor of Dermatology at Heinrich Heine University Düsseldorf, Germany. His research focuses on skin aging, environmental dermatology, oxidative stress, the skin microbiome, and cosmetic science. He is internationally recognized for pioneering research on the skin exposome and innovative anti-aging therapies.