cosmetotest

International Symposium Preclinical & Clinical Testing

ABSTRACT BOOK

5th edition - Lyon & Online

18-19 March 2026

PARTNERS & SPONSORS

PRESS PARTNERS

cosmetotest

WEDNESDAY 18 MARCH 2026

8:30 Opening of exhibitors' space

SESSION 1
HORMONES INFLUENCE ON SKIN & HAIR

9:00 Welcoming Introduction

9:10 Clinical Studies Conducted on Cosmetic Products Related to Menopause
Anne SIRVENT | Eurofins

9:30 Facial Skin Aging Across the Menopausal Timeline: An *in vivo* Biometric Study
Maya NABOULSI | Clarins

9:50 A Data-Driven Clinical Study Design for Acne Management Formulations, Integrating Dermatological Gradings, Instrumental Assessments, and Participant-Reported Outcomes
Simran SETHI | Cliantha

Short Talks

10:10 Clinical Imaging Redefined: new Standards in Cosmetic Evaluation with the C-Cube
Julie PRZYBYLSKI | Pixience

10:20 The Hormonal Revolution in Cosmetics: Women's Skin Health, Precision Personalization and Next-Generation Omics
Ramon GOYA | Goya Innova

10:30 COFFEE BREAK & EXHIBITORS CONNECTIONS

11:30 The Endocrine Epigenome: Hormones Shaping Skin Biology
Philippe PAPADIMITRIOU | Cosystems

11:50 The Role of Hormones in the Development of Hyperpigmentation and Possible Assessments
Elodie PRESTAT-MARQUIS | Naos

Short Talks

12:10 Modeling Acne Vulgaris: Efficacy Testing with Human Hair Follicle ex vivo Cultures.
Onur EGRIBOZ | DWI Labs

12:20 The Hormonal Revolution of Menopause: a Journey through Changes in Skin and Hair
Lorena BELLAS-DOMINGUEZ | Zurko Research

12:30 Dermal Interstitial Fluid: Pain- Free Sampling of Molecular Biomarkers in Clinical Studies
Jeremy BOST | Ascilion

12:40 LUNCH & EXHIBITORS CONNECTIONS

SESSION 2
EXPOSOME IMPACT ON SKIN & HAIR

14:10 Beyond Cosmetics: Evaluating Topical Chemical Exposure and Its Impact on Human Health
Sébastien GREGOIRE | Consulting

14:30 Exposing the exposome : over a decade of research on the harmful effects of the exposome on the skin
Juliette SAGE | LVMH Recherche

14:50 QISS: Quantitative Imaging for Skin Studies
Mr AOUCHARIA | CNRS

Short Talks

15:10 Antera 3D & anti-ageing
Guido MARIOTTO | Miravex

15:20 Approach to Substantiating the Claim: Protection against the Impact of the Exposome on Hair and Scalp Condition
Oliwia KALINOWSKA | JS Hamilton

15:30 COFFEE BREAK & EXHIBITORS CONNECTIONS

Short Talks

16:30 Moving from Marketing Claim to Measureable Performance
Mansi TANDON | Cliantha Reasearch

16:40 Monitoring Heavy Metal Contaminants in the Human Hair Matrix: A Perspective for Cosmetic Safety Assessment
Salvatore DEL PRETE | Service Biotech

17:00 Evaluation of the Effects of Thermal Stress on the Surface Condition of the Hair by Interferometric Microscopy
Edouard MACE | Eotech

Short Talks

17:20 Advancing Cosmetic Testing with Nevisense EIS
Jonas FREDRIKSSON | Scibase

17:30 Deep Skin Hydration
Jean-Michel BASCOLE | Delfin Technologies

17:40 Skin, Hair and Nails Exposome Through Omics
Paola BONINI | Olobion

18:00 Questions & Conclusion

18:30 SUPER FREE COCKTAIL ON SITE

19:30 END OF DAY 1

20:00 DINNER RESTAURANT «La Maison»

THURSDAY 19 MARCH 2026

8:30 Opening of exhibitors' space

SESSION 3
HYDRATION EVALUATION, WHAT'S NEW?

9:00 Introduction

9:10 Effect of Hydration on the Mechanical Properties of the sub-skin Layers
Hassan ZAHOUANI | LTDS

9:30 Multi-Dimensional Strategies to Improve Skin Hydration: Barrier Restoration, Gentle Anti-Aging and Antioxidant-Glycation Across Three Cosmetic Systems
Lieve DECLERCQ | Proya Cosmetics

Short Talks

9:50 Water on the Skin: Intrinsic Water Retention Capacity a new Parameter based on Mathematical Modeling of TEWL and Skin hydration methods
Pedro CONTREIRAS | PhD Trials

10:00 3D LC-OCT Skin Biomarkers for Evaluating Skin Hydration and Barrier Function
Margot VASSEUR | Damae Medical

10:10 Monitoring the Microbiome to Enhance Skin Hydration
Stéphanie BADEL-BERCHOUX | Byome Labs

10:20 Getting rid of the "Black Box": Corneometer® to use at the Volunteer's Home – Project CliniScale
D. KHAZAKA - M. BRUZZONE | Courage & Khazaka

10:30 From Measurement to Visualization: Innovative Tools for Skin Hydration Assessments
Natascha HENNIGHAUSEN | SGS proderm

10:40 Real Scientific Value of Popular non-invasive Hydratation Devices used in Clinical Studies
Tim HOUSER | Cortex

10:50 COFFEE BREAK & EXHIBITORS CONNECTIONS

11:50 Roundtable: Evaluating the «golden Claim» of Hydration: the New Scientific Challenges
Aline RIGAL-DACHAUD - Clarins
Georgios STAMATAS - SGS
Raoul VYUMVUHORE - Proya Cosmetic
Tim HOUSER - Dermico
hosted by Anne Charpentier - Skinobs

SESSION 4
SKIN AND BRAIN AXIS

12:20 The Skin–Brain Axis: Neurocosmetic Innovations for Aesthetic and Emotional Well-Being
Dr HAYKAL | Dermatologist

Short Talks

12:40 Using AFM Nanoscale Biomarkers to Monitor Skin Stress Responses during Exam Periods
Arthur DERVILLEZ | Loretta

12:50 A Comprehensive Framework for Stress and Sleep Assessment in Clinical Research
Marta FERREIRA | Inovapotek

13:00 LUNCH & EXHIBITORS CONNECTIONS

14:30 A Complete and Multi-dimensional Method for the Assessment of Cosmetics Effects on Well-being
Bérengère GRANGER - M. DE TORSIAC | Sisley

14:50 Does your perfume or cosmetic feel good? Now you can tell with computer-connected artificial neural-skin to evaluate cosmetics in real-time
Clément MILET | CTI Biotech

15:10 Cosmetic After-Feel Modulates Brain Activity in Sensory and Reward Networks: An fMRI Study
Eloïse APPELMANS GERARDIN | Brain Impact Neuroscience

15:30 The Gut-Skin-Brain Axis: A Psychophysiological Approach in Cosmetic
Edith FILAIRE | Icare Group

15:50 I like, I like less, I like more or I don't like anymore..." Predicting Consumer Behavior from the Affective trace of Experience...
Axel DE MARLES | Senseva

16:10 Aspalathin-Rich Extract: A Peripheral Modulator of the Skin-Brain-Hormonal Axis for Holistic Anti-Aging Skincare in men
Magalie CABANNES | Greentech

16:20 Science based Claims in Dermocosmetics: Understanding the new Challenges
Anne CHARPENTIER | Skinobs

16:40 CONCLUSION & END CLAP

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PRACTICAL INFORMATION

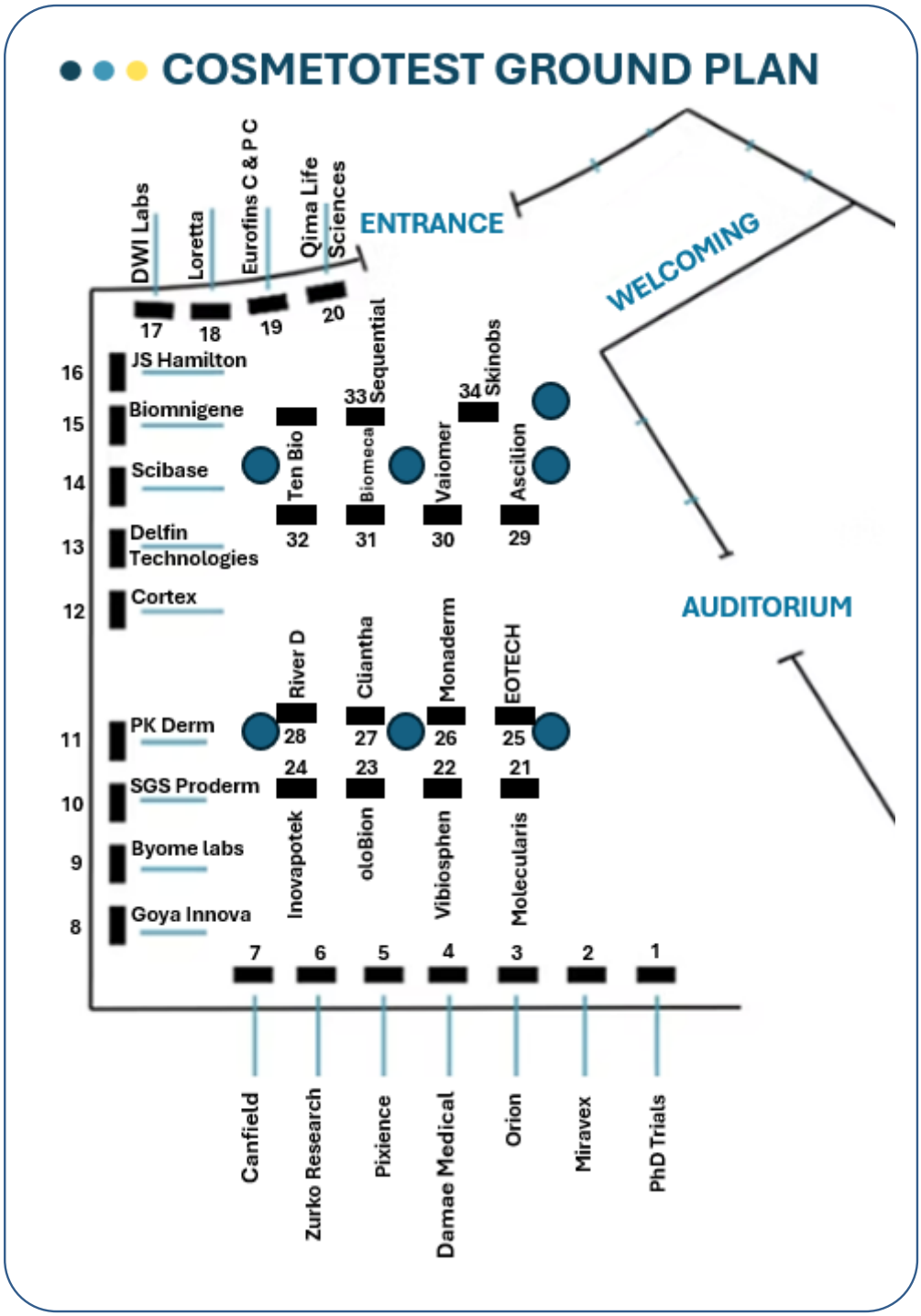
THE LOCATION

ENS Monod
Auditorium Mérieux,
1 place de l'école,
69007 Lyon, France

OPENING DATES AND TIMES

Wednesday 18 March 2026 - **8:30 AM - 7:30 PM**
Thursday 19 March 2026 - **8:30 AM - 4:40 PM**

FLOORPLAN



EXHIBITORS

1. **PhD Trials**
2. **Miravex**
3. **Orion**
4. Damae Medical
5. **Pixience**
6. **ZurkoResearch**
7. Canfield
8. **Goya Innova**
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10. SGS proderm
11. **PKDerm**
12. **Cortex**
13. Delfin
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17. DWI Labs
18. Loretta
19. Eurofins Cosmetics & Personal Care
20. Qima Life Sciences
21. Molecularis
22. **Vibiosphen**
23. oloBion
24. Inovapotek
25. **Eotech**
26. **Monaderm**
27. **Cliantha**
28. RiverD
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32. Ten Bio
33. Sequential
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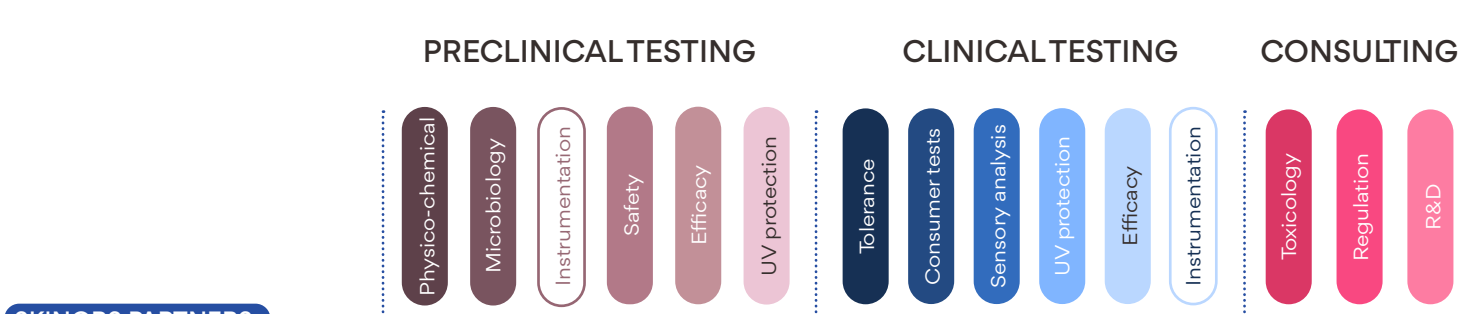
***Bold**: Skinobs partners*
Blue: Instrumentation



SKINOBS PARTNERS

COMPANY

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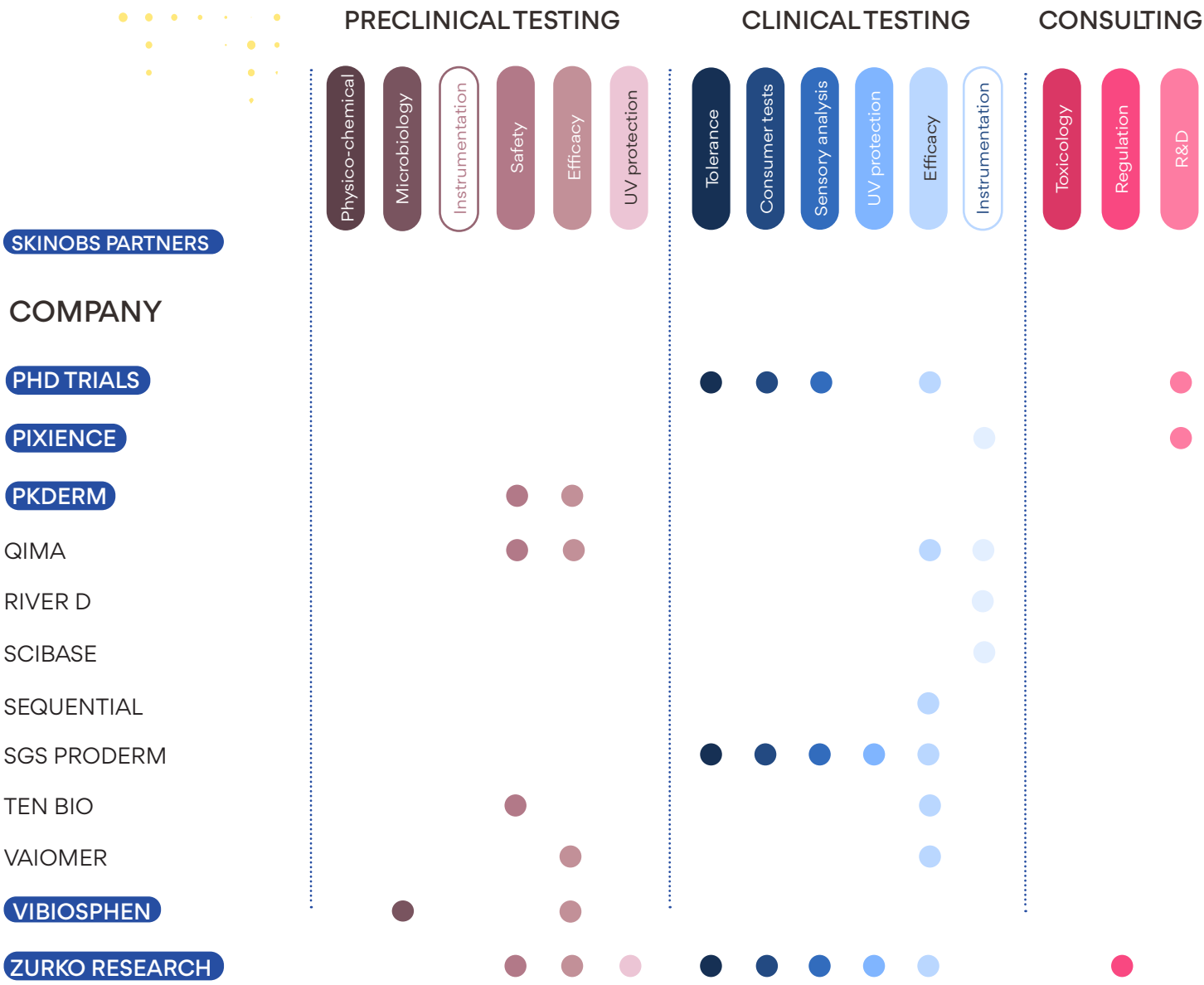

Scan the QR code to discover the Conference book with Company details, abstracts and participants list

COMPANY DIRECTORY

ASCILION

www.ascilion.com
Jeremy Bost
jeremy.bost@ascilion.com

Ascilion is a medical device company pioneering minimally invasive access to dermal interstitial fluid (dISF) to unlock a new generation of biomarker-driven diagnostics and monitoring. The company has developed a proprietary microneedle-based system designed to collect dISF in a simple, patient-friendly, and reproducible way, without the pain or complexity of traditional blood draws or skin biopsies. Because dISF reflects dynamic physiological processes at the tissue level, it offers rich insights into cosmetic efficacy, therapeutic response, and health status across a range of skin types. Ascilion's platform is built to integrate seamlessly into clinical and research workflows, enabling high-quality sample collection suitable for advanced analytical methods. By making dISF accessible at scale, Ascilion aims to accelerate biomarker discovery, support precision medicine, and empower clinicians, researchers, and industry partners with more actionable biological data—bringing diagnostics closer to the biology that matters most.

BIOMECA

www.bio-meca.com
Chlasta Julien
julien.chlasta@bio-meca.com

BIOMECA is a trusted partner to the beauty industry, offering advanced clinical testing services that scientifically validate the effectiveness of skincare and cosmetic products directly on human volunteers. Its team combines deep expertise in skin science with exclusive technologies to deliver robust, objective, and visually compelling results. A cornerstone of its clinical offering is EASYSTIFF, a proprietary device developed by BIOMECA to precisely measure the biomechanical properties of the skin, such as firmness, elasticity, and resistance—in vivo and with unmatched resolution. EASYSTIFF enables brands to demonstrate the visible and measurable impact of their products on real skin, adding credibility and differentiation to their claims. In addition to EASYSTIFF, BIOMECA offers a comprehensive suite of clinical evaluations, including high-resolution imaging and quantitative analysis of skin structure and quality. Its clinical protocols are designed to meet both scientific and regulatory requirements, providing solid, market-ready evidence to support product launches. Partner with BIOMECA for innovative, data-driven clinical testing that powers your next breakthrough in beauty.

BIOMNIGENE

www.biomnigene.fr
Alexandre Douablin
douablin.alexandre@biomnigene.com

BIOMNIGENE, a bio-analysis service company, helps secure, validate the effect of these customers' products or authenticate them through genetic analysis. Thanks to their expertise, they offer you integrated services for environmental, industrial cosmetic issues such as:
- Skin, vaginal microbiome analysis (NGS, 16S / ITS metagenomics, metatrancriptomics, RT-qPCR...)
- Identification, quantification and authentication, monitoring of species in a pure sample and in a mixture (microorganisms, viruses, bacteria, meat, fish).
- Genotyping (microsatellite, qPCR)
- To develop advanced experimental molecular biology protocols
- Developing methodologies for identifying and assaying species using molecular approaches
- Advice

BIOMNIGENE works in accordance with Good Laboratory Practices and current Good Manufacturing Practices.

BYOME LABS

www.byomelabs.com
Stéphanie Badel-Berchoux
stephanie.badel@byomelabs.com

Byome Labs is an innovative startup specializing in microbiome testing and analysis for the cosmetic industry. Born from a passion and commitment to microbiome-related technological innovation, their team comprises recognized experts in skin, scalp, vaginal, and oral microbiomes, as well as biochemistry, immunology, and artificial intelligence. Recognizing the potential of this knowledge for the cosmetic and pharmaceutical industries, they created Byome Labs, a dedicated entity focused on microbiome knowledge and recognition for cosmetics. Their vision is to redefine beauty standards by adopting a scientific and technological approach to the microbiome, enabling consumers to identify a skincare routine perfectly suited to their skin.

CANFIELD

www.canfieldsci.com
Peter Kollias
peter.kollias@canfieldsci.com

Canfield Scientific specializes in imaging systems, software, and services for clinical research, healthcare, and the pharmaceutical and cosmetic industries. Founded in 1986, the company develops solutions for 2D, 3D, and 4D imaging, including technologies for skin analysis, surgical planning, and patient education. Its product range includes systems such as VECTRA, VISIA, and Reveal, which are used in medical and aesthetic practices worldwide. Canfield Scientific also provides imaging services and software platforms to support clinical trials and research studies in dermatology, plastic surgery, and related fields.

CLIANTHA RESEARCH

www.cliantha.com
Simran Sethi
ssethi@cliantha.com

Cliantha Research is a leading full-service Clinical Research Organization (CRO) committed to delivering high-quality, scientifically robust solutions for global pharmaceutical, biotechnology, and cosmetic companies. With expertise spanning Clinical Trials (Phase I–IV), Bioavailability/Bioequivalence studies, Dermatology research, and Consumer Healthcare, Cliantha ensures compliance with international regulatory standards. With global presence in India, the U.S., and Canada, Cliantha conducts high-quality trials across pharmaceuticals, biologics, cosmetics, personal care, and nutraceuticals in safety and efficacy segment. The organization integrates advanced technologies and ethical practices to provide end-to-end services. Its multidisciplinary team of experienced professionals focuses on innovation, accuracy, and timely execution, making Cliantha a trusted partner for scientific innovations and claim substantiation. Ensuring applicable regulatory compliance with Good Clinical Practices (GCP), Cliantha combines scientific rigor with operational excellence to support clients in achieving regulatory approvals and market success.

CORTEX

www.cortex.dk
Susanne Borre
shb@cortex.dk

Cortex Technology has spent more than 40 years advancing the science of skin measurement, supporting researchers who require high precision, reproducible data for product development and clinical evaluation. Their instruments are engineered to quantify key biophysical parameters such as hydration dynamics, elasticity, TEWL, color, collagen, skin thickness and others with exceptional sensitivity and stability. They design every device with scientific rigor in mind—robust calibration, consistent probe to skin interaction, and data outputs optimized for statistical analysis. Whether used in controlled laboratory studies or large scale clinical trials, their solutions help researchers capture subtle changes in skin physiology and validate claims with confidence. At Cosmetotest 2026, they will highlight our newest developments in non invasive skin assessment technologies, enabling deeper insight and supporting the industry's demand for evidence based innovation. Cortex Technology remains committed to empowering scientists with reliable tools that advance the understanding of skin biology.

DAMAE MEDICAL

www.damae-medical.com
Anja Kleber
anja@damae-medical.com

Damae Medical develops an in vivo imaging device and AI solutions for advanced 3D visualization and quantification of the skin at the microscopic scale, supporting dermo-cosmetic and pharmaceutical research. Since 2014, its deepLive™ technology integrates LC-OCT (Line-field Confocal Optical Coherence Tomography), which combines the principles of OCT (Optical Coherence Tomography) and RCM (Reflectance Confocal Microscopy). This innovation enables a true non-invasive optical biopsy of the skin: real-time 3D imaging that reveals cutaneous structures with cellular precision — including the stratum corneum, epidermis, dermo-epidermal junction, dermal fibers, keratinocyte nuclei, and melanin. Combined with advanced AI algorithms, deepLive™ provides microscopic-scale quantification of the skin, enabling accurate characterization and reliable evaluation of product efficacy. Certified CE Class IIa, FDA-approved, and deployed in more than 14 countries, deepLive™ is trusted by leading cosmetic and pharmaceutical companies worldwide.

DELFIN

www.delfintech.com
Jean-Michel Bascole
jean-michel.bascole@delfintech.com

Delfin Technologies develops non-invasive skin measurement devices based on proprietary ultrasound, impedance, and optical technologies. Founded in 1998, the company offers portable instruments designed to measure skin properties such as hydration, elasticity, and barrier function. Its product portfolio, including devices like the MoistureMeter and the VapoMeter, is used in medical, pharmaceutical, and cosmetic fields. Delfin Technologies' solutions are CE-marked and FDA-cleared, and are utilized in research, clinical studies, and product development in more than 40 countries.

GOYA INNOVA

www.laboratoriogoya.com
Ramon Goya
ramongoya@laboratoriogoya.com

With more than 40 years of experience providing solutions to the clients, its 360º services include quality control as well as clinical trials and evaluations of safety and efficacy. DR.GOYAANÁLISIS offers a complete portfolio of services for Cosmetics Products, Food Supplements and Medical Devices in the field of Quality Control and Efficacy Evaluations. ANMAR CLINICAL SERVICES respond to the needs of cosmetic manufacturers in order to evaluate the safety and tolerance. GAIKER has nowadays 30 years of experience working in vitro models to support R&D and marketing claims. The DR.GOYA ANALISIS, ANMAR and GAIKER synergy, makes this group of companies one of the most solid alternatives for the analysis of cosmetic products, health products and food supplements.

DWI LABS

www.dwilabs.com
Onur Egriboz
onuregriboz@dwilabs.com

DWI Labs is a contract research organization, which designs and executes customized research and development projects, using ex vivo organ cultures of human tissue, including hair follicles or skin. These experiments are typically geared towards testing the efficacy and safety profiles of active ingredients. Their lab is fully equipped to deliver the data as the output at the end of the projects, including the data analysis in a final report. Their clients do not need to have their own laboratory space or scientific expertise; however, they can also deliver experimental material, such as tissue sections on slides, RNA/DNA extracts from samples, culture supernatants, etc., if the client would like to pursue their own downstream analytical procedures.

EOTECH

www.eotech.fr
Edouard Macé
edouard.mace@eotech.fr

Based in Paris area and founded in 1993, EOTECH is a leading producer of 3D imaging systems for the skin relief analysis. The combination of positioning benches, 3D scanners based on fringe projection technique and a user friendly software allow to record reproducible data and perform automated evaluations over a complete study. EOTECH also offers other contactless measuring devices for bio-metrology (firmness measurement, thermal imaging) as well as a range of related services (rental, after-sales service, analysis services).

EUROFINS

www.eurofins.com/cosmetics/
Lisa Parce
lisa.parce@cpt.eurofinseu.com

Eurofins Dermscan France is a reference in clinical trials of cosmetics and pharmaceutical products since 1990. The Lyon site assesses safety, efficacy and sensory or consumer appreciation of cosmetics, hygiene products, sunscreen, cosmetic fabrics, beauty devices, etc. Always respecting the good clinical practice and regulatory requirements, Eurofins Dermscan responds optimally to customers' requirements with either standard or customized solutions. Eurofins Dermscan uses innovative methods based on the expertise of R&D team as well as new devices and analysis software at the cutting edge of technology. Created in 2001, Eurofins Pharmascan is the brand of Eurofins Dermscan specialized in clinical studies and interventional or non-interventional biomedical researches. ISO 9001 certified, Eurofins Pharmascan offers custom made protocols to assess the safety and the efficacy of Dermocosmetics, Hygiene products, Biocides, Food supplements, Health oriented products, Medical devices, Drugs.Eurofins Pharmascan conducts studies on site (CRC activity) and/or in medical offices (CRO activity).

INOVAPOTEK

www.inovapotek.com
Marta Ferreira
marta.ferreira@inovapotek.com

Inovapotek was founded in 2008, inspired their our CEO, Marta Ferreira's mission to bring science to the service of society. Since then, without ever losing sight of their purpose, they have contributed to the developement of an innovative and scientifically validated dermocosmetic industry. Today, Inovapotek is a Contract Research Organization (CRO) offering a wide range of tailored research and testing services in dermatologyn supporting industries such as Personal Care Pharmaceutical, Medical Devices and Food Suplements. They support product development from A to Z. From the earliest formulation stages to the evaluation of safety, efficacy and performance, our scientifically trained teams work closely with their clients to turns ideas into innovative, safe and effective products. Investing in safety and efficacy testing is more than a regulatory requirement - it reflects their commitment to helping brands build trust, ensure product quality and promote consumer well-being.

J.S HAMILTON

www.hamilton.com.pl/en/
Oliwia Kalinowska
okalinowska@jsh.com.pl

J.S. Hamilton is a leading, accredited testing laboratory in Eastern Europe, also recognized as a CIR-approved laboratory, providing reliable services across multiple industries, including food, cosmetics, pharmaceuticals, consumer goods, packaging, and environmental sectors. One of its thriving branches is the cosmetic products testing laboratory, offering extensive experience in dermatological testing, physicochemical analyses, application and instrumental studies. The laboratory supports clients throughout the product development process, combining scientific rigor with practical expertise to deliver actionable data that meet regulatory requirements and market expectations. J.S. Hamilton works closely with international partners, offering tailored testing strategies to optimize product safety, efficacy, and performance. By integrating scientific innovation with a client-focused approach, the laboratory contributes to the creation of high-quality, effective cosmetic testing solutions that address real consumer needs and support substantiated product claims.

LORETTA

www.loretta-biotech.com/
Arthur Dervillez
arthur.dervillez@loretta-biotech.com

Loretta, is a specialized skin analysis laboratory dedicated to supporting cosmetic brands in the scientific testing and validation of their products. The company partners with cosmetic laboratories worldwide to deliver precise, actionable insights into skin performance and product efficacy. Using high-speed Atomic Force Microscopy (AFM), its platform captures real-time, high-resolution data from the surface of skin cells, enabling robust, non-invasive characterization of key biophysical parameters. Analyses focus on critical indicators such as hydration levels, barrier function integrity, and anti-aging factors, supporting evidence-based formulation and quantifiable results. By bridging fundamental biophysics with applied cosmetology, Loretta helps transform complex skin data into clear scientific value for R&D teams and clinicians.

MIRAVEX

www.miravex.com
Guido Mariotto
guido@miravex.com

Miravex Limited is an Irish company specialized in the areas of optics, image analysis and software engineering. A highly innovative company, Miravex has introduced a new concept in skin imaging with the Antera 3D camera and has established itself as one of the leading providers of cameras for skin analysis worldwide. The Antera 3D CS is a research-grade camera & software that will help you to substantiate your claims.

MOLECULARIS

www.molecularis.com
Lisa Baeumer
lisa.baeumer@molecularis.com

The company offers a wide range of in vitro toxicological studies on chemicals and pharmaceuticals, in accordance with OECD guidelines, such as the skin corrosion test (OECD 431), the skin irritation test (OECD 439), the serious eye damage test (OECD 491), and the bacterial reverse mutation test, also known as the AMES test (OECD 471). It operates strictly according to Good Laboratory Practice (GLP) principles and aims to obtain GLP certification within the year. The company also offers customized research projects to investigate the effect of a test substance on human cell lines or 3D skin models. These studies can be used to detect inflammatory reactions or cell death, possibly in combination with microbial communities (microbiome, depending on the area of application). As an expert in microbiology, the company is able to conduct toxicological studies involving aerobic, microaerophilic, and strictly anaerobic bacteria, biofilm assays, as well as the determination of minimal inhibitory, bactericidal, and fungicidal concentrations (MIC, MBC, MFC), in accordance with CLSI guidelines. It establishes bacterial co-cultures to perform microbiome studies and remains open to new scientific challenges. The company gladly develops new methods and designs innovative projects. It also offers quality control testing for cosmetic products, such as challenge testing, endotoxin detection, and microbiological purity assessment.

MONADERM

www.monaderm.com
Marc Bruzzone
mbruzzone@monaderm.com

MONADERM proposes services to :
• the Industries pharmaceuticals and cosmetics (Services studies and Tests, Marketing Services)
• Laboratory of research and development
• Manufacturers of raw materials and active ingredients
• Units clinics in dermatology/Allergology
MONADERM is designed to address your concerns : proposes, advocates techniques adapted to the demonstration of the effectiveness of your products and the extent of the condition of the skin. Advises, assists in your choice of protocols. Studies, performs and produces the instruments and specific equipment you need in your research and experimentation (mechanical, electronic, biophysics, computer and optical). MONADERM search products and equipment most suited to your needs.

OLOBION

www.olobion.ai
Paolo Bonini
pb@olobion.ai

oloBion, a Spanish company, is specialized in advanced metabolomics, lipidomics and proteomics. By combining OMICS technologies with strong expertise in pharmacokinetics and biology, they help brands interpret skin biology, validate new ingredients and develop more effective, evidence-based products. In cosmetics, they perform in-depth molecular profiling of skin, metabolome, proteome and lipidome to better understand aging, hydration, barrier function and inflammation, and they assess the ingredients and actives by testing their efficacy and mechanism of action. In parallel, they also support drug discovery and ADME-Tox studies as well as offering agro-food and bioprocess services. All these activities are powered by oloMAP, our multi-omics portal. It turns complex datasets into clear, bioinformatics-based visuals and insights that non-omics users can readily understand.

ORION TECHNOLAB

www.orion-techno-lab.com
Jean-Christophe Pittet
orion@orion-concept.com

ORION CONCEPT :
- 25 Years of experience for the expertise in dermocosmetology
- Consultancy, advice and training for your Innovative Product Evaluation...
- Expertise and services for the Skin Imaging and Image Analysis
ORION TECHNOLAB :
- Development, sales and support of innovative and validated devices and methods,
- Tools and software to study the skin and the efficacy of dermo-cosmetics products...
- Innovative Systems for the biometrology of the skin and the efficacy of products.

PHD TRIALS

www.phdtrials.com
Pedro Contreiras Pinto
geral@phdtrials.com

PhD Trials is a leading European in vivo CRO (International Contract Research Organization), engaged into the clinical assessment of safety and efficacy of products for topical application (cosmetic, raw materials and food products). They are a multidisciplinary team of skin specialists, boasting more than 25 years of experience in the scientific support to the cosmetic industry. PhD Trials has a database of more than 20000 subjects, and has all the state of the art systems including a Confocal Microscopy system, multiple 3D scanners including an AEVA-HE full system, and a Raman Spectroscopy unit for evaluation skin in vivo in a 2000 sqm facilities.

PIXIENCE

www.pixience.com
Sébastien Mangeruca
sebastien.mangeruca@pixience.com

Pixience provides advanced imaging solutions for clinical research. With a strong focus on precision and objectivity, the C-Cube imager allows brands and CROs evaluate product efficacy through standardized and reproducible imaging. It delivers high-resolution 2D and 3D images for assessing skin, scalp, and hair parameters. Built on validated metrics and scientific rigor, the C-Cube enables autonomous data collection and supports a wide range of cosmetic claims: colorimetry, prolilometry, hair analysis, ex-vivo, spectral analysis. Trusted by major industry players, Pixience is a key partner for delivering robust visual evidence in dermocosmetic and pharmaceutical research.

PKDERM

www.pkderm.com
Hanan Osman-Ponchet
ponchet.hanan@pkderm.com

PKDERM is a leading French biotechnology company transforming efficacy and safety testing. Using advanced in vitro models and techniques, they provide accurate, efficient, and ethical solutions for cosmetic, pharmaceutical, and medical device development. Their team offers
- Reliable testing protocols for safety and efficacy.
- Faster development processes without compromising quality.
- Reduced reliance on animal testing for more ethical practices.
- Expertise and ongoing research in in vitro testing.

QIMA LIFE SCIENCES

www.qima.fr/life-sciences
Mme Sandrine PASCAL-SUISSE
ls@qima.com

QIMA Life Sciences empowers global leaders in the pharmaceutical, biotech, and cosmetic industries through science-driven, predictive preclinical and clinical models and evaluations. Its solutions accelerate development, increase success rates, and optimize resources by identifying the most promising candidates or active ingredients early in the pipeline. With deep scientific expertise, it serves as a trusted partner, delivering robust data that strengthens decision-making and drives innovation at every stage of product development — because better science leads to better lives.

RIVERD

www.riverd.com
Ilaria Zippo
izippo@riverd.com

RiverD is a Dutch company specializing in Raman spectroscopy for non-invasive skin analysis. With over 20 years of experience, RiverD develops and markets innovative products designed to provide precise insights into skin composition and the penetration of topical products. Their easy-to-operate skin analyzers are engineered to meet the demanding requirements of in vivo and ex vivo tissue analysis. RiverD collaborates with academic institutions and industry partners to advance research and application in the field of skin analysis.

SCIBASE

www.scibase.com
Jeremy Bost
jeremy.bost@scibase.com

SciBase is the developer and producer of Nevisense, the first-ever clinical tool to diagnose skin disorders using electrical impedance spectroscopy (EIS). Nevisense is FDA-approved and CE-marked for skin cancer detection and is published in over 80 research projects globally across a range of skin disorders. SciBase was founded in 1998 from the Karolinska Institute in Stockholm, Sweden and has become a rapidly-growing leader in the skin research field.

SEQUENTIAL

www.sequential.bio/
Butler Derek
derek@sequential.bio

Sequential advances personal care and health research by studying the real-world impact of products through human clinical testing, biomarker discovery, and next-generation formulations across skin, scalp, oral and vaginal care. Its end-to-end, in-house platform, from study design and participant recruitment (tailored to any required criteria) to laboratory analysis and data interpretation, turns complex biological data into clear, actionable insights. By combining microbial and molecular analyses, it enables the development of credible, effective, and trustworthy products and claims. With a database of over 50,000 samples, 4,000+ ingredients, and 10,000+ participants worldwide, Sequential leverages years of scientific expertise to set the standard for data-driven innovation and product validation in the personal care and pharmaceutical industries.

SGS PRODERM

www.sgs-proderm.de
Sascha Faust
sascha-faust@sgs.com

SGS proderm is part of SGS, the world leader in testing, inspection and certification. As a center of excellence for dermatology research, they provide high-quality clinical studies to clients around the world who are unwilling to compromise on the quality and reliability of contract research. Their mission is to use their specialized knowledge and experience to provide optimal support during clinical trials. As a customer, you benefit from their extensive experience and their reliable and innovative test methods, as well as their sound advice on optimising study designs. With their 'Consumer Care' and 'Medical' domains, they have created a structure for optimal management of the regulatory diversity of clinical studies. At the heart of the Consumer Care unit are evidence of scientific efficacy and skin tolerance tests in accordance with cosmetic guidelines. The "Medical" team is specialized in the control of medicinal products and medical devices in accordance with legal requirements and directives. This includes Phase 1 in the clinical research unit as well as Phases 2 and 3 with the network of qualified study sites.

TEN BIO

www.ten-bio.com/
Conneely Michael
michael.conneely@ten-bio.com

Ten Bio provides optimal human skin models for skin biology testing. By restoring and maintaining physiological skin tension through their unique culture platform, Ten Bio has succeeded in creating a truly functional and realistic testing platform for skin research. Their research products and services generate accurate, clinically relevant data to more accurately predict the in vivo action of their dermatological products.

VAIOMER

www.vaiomer.com/
Lelouvier Benjamin
benjamin.lelouvier@vaiomer.com

Vaiomer is a French biotechnology company specializing in microbiome analysis of complex and low-biomass samples. It offers a comprehensive range of services in microbiome analysis, molecular biology, and bioinformatics, with an innovative approach specifically adapted to low-biomass and complex samples. Its expertise enables the generation of reliable and actionable data on a wide variety of samples, including those from the skin, oral cavity, scalp, tissues, or the environment.

VIBIOSPHEN

www.vaiomer.com/
Lelouvier Benjamin
benjamin.lelouvier@vaiomer.com

Vaiomer is a French biotechnology company specializing in microbiome analysis of complex and low-biomass samples. It offers a comprehensive range of services in microbiome analysis, molecular biology, and bioinformatics, with an innovative approach specifically adapted to low-biomass and complex samples. Its expertise enables the generation of reliable and actionable data on a wide variety of samples, including those from the skin, oral cavity, scalp, tissues, or the environment.

ZURKO RESEARCH

www.zurkoresearch.com
Jakub Poplawski
jacob@zurkoresearch.com

Zurko Research stands as the largest Spanish and a prominent European CRO, boasting nearly 20 years of expertise. Operating from various sites in Spain and an office in NYC, Zurko Research specializes in In-Vivo Clinical Efficacy and Safety studies for Cosmetics, Medical Devices, and Food Supplements. Since 2021, CTC Barcelona, recognized as Europe's premier Hair Care testing lab, has joined the Zurko Research group. This collaboration broadens our scope, providing an extensive range of In-Vivo and Ex-Vivo Hair Care studies.

LIST OF PARTICIPANTS

Last name	First Name	Company
ADNET	Cynthia	SOREDEC
AIME	Ingrid	IEC - Institut d'Expertise Clinique
ANDRE	Alexa	Groupe Rocher
AOUACHERIA	Abdel	CNRS ISEM
ARDIET	Nathalie	NAOS LES LABORATOIRES
ARTUS ARDUISE	Cecile	HRA Pharma/ Perrigo
ATANGANA	Yvan	MONADERM
AVERSENG	Marine	Vibiosphen
BADEL-BERCHOUX	Stéphanie	BYOME LABS
BAKOUR	Rania	Laboratoires Fillmed
BALDASSA	Simona	ABICH S.r.l.
BARDIN	Viviane	GATTEFOSSE SAS
BARLIER	Pascale	Cos&Co
BASCOLE	Jean-Michel	FIN GLOBAL
BATTAIL	Lucile	Aionia Management
BÄUMER	Dr. Lisa	Molecularis GmbH
BELLAS	Lorena	Zurko Research
BEN YAHIA	Khalil	DATACAPT
BENGTSSON	Jennifer	SCIBASE AB
BERRICHE	Leila	henkel
BERSANINI	Luca	Optics11 Life B.V.
BLANCHET	Sophie	Innosya - Lesaffre International
BLASCO	Laurent	IMCD FRANCE
BLAZY-JAUZAC	Claire	CIDP
BOBIER	Anaïs	QIMA Bioalternatives
BONINI	Paolo	oloBion SL
BONNAUD-ROSAYE	Catherine	BASF Beauty Care Solutions
BONNIER	Franck	LVMH Recherche
BOST	Jeremy	Ascilion
BOUCAUD	Alain	TRANSDERMA SYSTEMS
BOUJARD	Elodie	QIMA Bioalternatives
BOUSSARD	Manon	BIOMECA
BREISSE	Magali	Eurofins ADME BIOANALYSES
BROSSEAU	Mathilde	EC presse
BRUZZONE	Marc	MONADERM
BUTLER	Derek Patrick	Sequentail Skin
CABANNES	Magalie	GREENTECH SA
CALDERÓN	Claudia	Evonik Operations GmbH
CAMEL	Valentine	IEC - Institut d'Expertise Clinique
CAMPANARI	Letizia	Naemos
CARALY	Jean	Skinobs
CARNEIRO	Diana	inovapotek
CARRANCA	Mariana	InSkin Consulting

CARVAJAL	Paulina	Isdin
CASPERS	Peter	RiverD
CASTEX	Séverine	NAOS LES LABORATOIRES
CAUTAIN	France	Skinobs
CHARPENTIER	Anne	Skinobs
CHARTIER	Sophie	Eurofins Dermscan
CHENUT	Axelle	SGS IDEACLINIC
CHEYMOL	Marine	IEC - Institut d'Expertise Clinique
CHLASTA	Julien	Cosmetin Lyon
CHOMIKI	Nathalie	Eurogentec - Kaneka
CICO	Alba	Sederma
CLAMOU	Jean-Luc	LABORATOIRES ASEPTA
CLIO	Dominique	CARGILL R&D CENTRE EUROPE BV
CONNEELY	Michael	Ten Bio
COSTA	António	PhD Trials
CUSCUSA	Marine	Coty
DANIEL	Magalie	Eurofins BIO-EC
DANOY	Alix	QIMA Newtone
DANSKA	Ralf	FIN GLOBAL
DE BRITO RODRIGUES	Angela	Laboratoire Native
DE LAGARCIE	Charlotte	Eurofins Cosmetics & Personal Care
DE MARLES	Axel	SENSEVA
DE TORSIAC	Mathilde	C.F.E.B. Sisley
DECHELETTE	Corinne	LA PEAU AUTREMENT
DECLERCQ	Lieve	SKINDLITE BV
DECLERQ	Lieve	Proya Europe
DEL PRETE	Salvatore	Service Biotech srl
DENIZOT	Melanie	lyonbiopole
DEPRESLE	Clémentine Depresle	CRBSA
DERVILLEZ	Arthur	Loretta
DESCHAMPS	Sophie	COMPLIFE FRANCE
DESROCHES	Jérôme	KAMAX Innovative System
DIRIDOLLOU	Stephane	L'Oréal
DOUABLIN	Alexandre	BIOMNIGENE
DRIDI	Dorra	PHARMAGHREB LABORATOIRES
DUDLER	Bernhard	Laboratoires La Prairie SA
DUMAS	Robin	Vibiosphen
DUQUESNE FEOLA	Elodie	J.S. Hamilton Poland Sp. z.o.o.
ECARNOT	Vanessa	Skin Test Institute
EGRIBOZ	Onur	DWI Labs
ELZENGA	Corry	DSM-Firmenich Switzerland AG
EVENO	Louis	Pixience
FANIAN	Ferial	FILLMED
FARRE	Sylvie	Albhades

FERRE MORA	Jorge	AITEX
FERREIRA	Marta	inovapotek
FICHET	Coralie	Laboratoires Clarins
FILAIRE	Edith	Icare Group
FONTENILLE	Juliette	BYOME LABS
FORRAZ	Nico	CTIBIOTECH
FRESIA	Federica	RiverD
FREYSSINET	Séverine	SYRES
FURMANCZYK	Marta	Viajes el Corte Ingles
GAILLARD	Emmanuelle	SETHIC Innovations
GALÍ VILA	Nuria	COSMOCARE EXPERT SL
GARDERES	Johan	LABORATOIRES GILBERT
GASPERINI	Jeromine	BYOME LABS
GEOFFROY	Aurélie	BME CONSULTING
GERARDIN	Eloïse	Brain Impact Neuroscience
GIBAUD	Cécile	Eurofins Dermscan
GILLOIS	Kevin	Phenocell
GOMEZ MERCHAN	Merce	Reckitt
GONZALO	Laura	Zurko Research
GOYA	Ramon	DR GOYA ANALISIS
GRANGER	Bérengère	CFEB SISLEY
GREGOIRE	Sébastien	Sébastien Grégoire Consulting
HASSAN	Gabriel	Skinobs
HAYKAL	Diala	
HENNIGHAUSEN	Natascha	SGS proderm GmbH
HOUDART	Pétronille	SEQUENTIAL
HOUSER	Tim	Cortex Technology
HUGUET	Elise	HERMES PARFUMS
ISHIMOTO	Anna	SHISEIDO CO., LTD.
JAUMONET	Camille	IEC - Institut d'Expertise Clinique
JENNINGS	Julie	N7 Beauty Company
JERMANN	Roland	Weleda AG
JORDA	Nuria	AITEX
JOSHI	Parth	Cliantha Research Limited
JOURDREN	Antoine	SGS proderm GmbH
JULIE	Séverine	Laboratoires Pierre Fabre
KAPPLER	Katharina	Mibelle AG Biochemistry
KHAZAKA	Diana	MONADERM
KOELLER	Gabriel	EOTECH SAS
KOLLIAS	Peter	Canfield Scientific Europe, BV
KRUSE	Dr. Iryna	CLR Chemisches Laboratorium Dr. Kurt Richter
LABARRADE	Florian	LMR by IFF
LAFFORGUE	Christine	AC2L Consulting
LAGARDE	Jean Michel	IMACTIV-3D
LAGRANGE	Chloé	Skinobs

LARA	Aina	oloBion SL
LAZARTSEVA	Anna	İNNOHEALTH İMPEX
LE MESTR	Audrey	ASHLAND
LE ROUX	Marion	Laboratoires Expanscience
LEE	Bum Chun	Intech Co.
LEFLAMAND	Hugo	Laboratoire M&L
LELOUVIER	Benjamin	Vaiomer
LEMANISSIER	Pauline	Biologique Recherche
Leménager	Hélène	Phenocell
LEROUX	Richard	Société Française de Cosmétologie
LEUENBERGER	Eric	EC PRESSE
LOGUSSO	Georgina	Laboratorio STADA S.L.U
LORAND-MACHARD	Aglae	LABORATOIRES ASEPTA/ADAM
MACE	Edouard	EOTECH SAS
MALARTRE	Agnès Claire	ABICH S.r.l.
MARIOTTO	Guido	Miravex Limited
MARTINEZ	Anthony	EPISKIN
MELONI	Marisa	Consultant
MICHAL	Fanny	QIMA Newtone
MIGNON	Gwendoline	NAOS LES LABORATOIRES
MILET	Clément	CTIBiotech
MINASOLVE	Ariane Dezalys	MINASOLVE
MIZUTANI	Yuki	KOSE Corporation
MORO	Céline	PKDERM
MOUTET	Justine	IMASENS
MOYNE-BRESSAND	Virginie	Eurofins Dermscan
NABOULSI	Maya	Université Paris-Saclay
Nachat-Kappes	Rachida	INNOVSKIN
NOURIKYAN	Julien	AltraBio
OLAVERRI	Pablo	DR GOYA ANALISIS
ORY	Florentin	DATACAPT
OSMAN-PONCHET	Hanan	PKDERM
PAGNON	Aurélie	Novotec
PAILLIER	Céline	Cortex Technology
PALLANDRE	Pierre-Laurent	IEC - Institut d'Expertise Clinique
PALOMINO	Erika	Cosmo International
PAPADIMITRIOU	Philippe	cosystems
PARRA GUERRA	Ivan	DR GOYA ANALISIS
PARZIALE	Martina	ARTERRA BIOSCIENCE SPA
PASCAL-SUISSE	Sandrine	QIMA Newtone
PÊTRE	Arnaud	Brain Impact Neuroscience
PINTO	Pedro Contreiras	PhD Trials
PITTET	Jean Christophe	ORION CONCEPT TECHNOLAB
POLLET	Maxime	Eurofins ADME BIOANALYSES
PONSERO	Severine	COMPLIFE FRANCE

POULAIN	Manon	Laboratoires ASEPTA
PRESTAT-MARQUIS	Elodie	NAOS LES LABORATOIRES
PRICOUPENKO	Nastassia	Damae Medical
PRZYBYLSKI	Julie	Pixience
QUINN	Tara	ALS
REBILLARD	Ophélie	Skinobs
REICHELT	Anne-Grethe Gamst	Bio-Me
RENTERO	Nicolas	IEC - Institut d'Expertise Clinique
RICCI	Lucia	Università degli Studi di Napoli
RIGAL-DACHAUD	Aline	Laboratoires Clarins
RISSELADA	Christa	STRAND COSMETICS EUROPE / MS BEAUTILAB
ROCA MUNIENTE	Laura	Viajes El corte Ingles SA
RUBIO	Emilio	PROVITAL, S.A.
RUELENS	Charlotte	Eurofins BIO-EC
RUNEL	Gael	BIOMECA
SACAREAU	Pauline	Nuvisan France SARL
SAGE	Juliette	LVMH RECHERCHE
SAGUET	Thibaut	Activen France
SALOMON	Ilona	Skinobs
SALVERT	Marie	NAOS LES LABORATOIRES
SATO	Yuri	KOSÉ Corporation
SAVITSKAYA	Natalya	İNNOHEALTH İMPEX
SENHAJI	Sabrina	Eurofins Cosmetics & Personal Care
SERVANT	Florence	Vaiomer
SETHI	Simran	Cliantha Research Limited
SIRVENT	Anne	Eurofins-Dermscan
SPÅREN BENGTSSON	Jennifer	SciBase AB
STAL PAPINI	Dr. Flavia	Molecularis GmbH
STAMATAS	Georgios	SGS FRANCE
TAKAI	Yuji	KOSÉ Corporation
TANDON	Mansi	Cliantha Research Limited
TASSONE	Beatrice	dsm-firmenich
THEUNIS	Jennifer	Pierre Fabre
TIREAU	Angeline	ALPOL COSMÉTIQUE
TISSERAND	Elsa	GALDERMA
TORROGLOSA	Natalia	ANTONIO PUIG SA
TRAPEAUX	Emma	BYOME LABS
TREVISAN	Solène	QIMA Newtone
TROUSSIEUX	Sandrine	AMOEBA
UCHIYAMA	Masayuki	Kao corporation
VANDOOREN	Nils	ORION CONCEPT TECHNOLAB
VASSEUR	Margot	Damae Medical
VIAL	Francis	Eurofins Dermscan
VILLARET	Aurelie	Pierre Fabre

VISEK	Tea	Cos Chem d.o.o.
VRIGNAUD	Elsa	Loretta
VYUMVUHORE	Raoul	Proya Europe
WATSON	Joanne	N7 Beauty Company
WESTED	Jakob	Cortex Technology
YARWUDHI	Oravaree	Dermscan Asia Co., Ltd.
ZAHOUANI	Hassan	LTDS

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Clinical Studies Conducted on Cosmetic Products Related to Menopause

Anne Sirvent | Eurofins Dermscan

Abstract

Demographic aging, particularly among women, is profoundly changing expectations regarding cosmetic care. In France, one in four women is over 60, and this proportion is steadily increasing. This phenomenon is accompanied by a rise in healthy life expectancy, but also by hormonal changes that directly impact the skin, hair, and emotional well-being.
Perimenopause and menopause represent transitional periods during which the skin evolves: it becomes drier and more reactive, loses firmness and density, and signs such as redness, hot flushes (sometimes accompanied by increased sweating), hormonal acne, and hair loss may appear. These visible symptoms reflect profound biological changes. Hormonal transitions also significantly affect psychological balance. Sleep and concentration disturbances, mood swings, and a decline in self-confidence can be experienced to varying degrees.
Cosmetic brands are now encouraged to offer targeted, effective solutions to support women's skin health and overall confidence throughout key hormonal life stages. Cosmetic evaluation protocols must adapt to this new reality. Panels of volunteers now include premenopausal and menopausal women presenting with specific signs. Clinical studies are designed to assess both the tolerance and efficacy of products, combining expert scoring, biometrological measurements, and self-assessment analyses. Dedicated approaches can also highlight the beneficial impact of specific cosmetics on certain emotional symptoms. Formulators must consider the biological, emotional, and cultural specificities of women from different continents. International studies on multi-ethnic panels are essential to address the diversity of skin types and experiences worldwide.
This presentation will review several recent approaches that address cosmetic claims associated with pre-menopause and menopause.

Biography

After a PhD in Immunology, Anne Sirvent joined the Dermscan laboratory as scientific communication manager. She then became head of R&D. Her expertise covers claim substantiations, new technologies in the field of skin evaluation as well as clinical trial regulations. She provides training courses for students and professionals in the dermato-cosmetic field. Following the integration of Dermscan laboratory into the Eurofins group, she also contributes to the business unit's marketing activities.

Company description

EUROFINS Dermscan-Pharmascan supports companies in the development and implementation of studies and trials for cosmetic and pharmaceutical products. With over 35 years of expertise in Beauty and Health, we deliver customized studies through specialized teams, an extensive panel of volunteers, and state-of-the-art technical capabilities. Our centers in France and worldwide facilitate standardized multicenter studies, on multi-ethnic volunteers, backed by continuous R&D insights and cutting-edge technological solutions.
Eurofins is a global leader in testing, inspection, and certification services. It supports a wide range of industries, including pharmaceutical, food, environmental, agro-scientific, and consumer products, delivering expertise and reliable solutions worldwide.

Facial Skin Aging Across the Menopausal Timeline: An In Vivo Biometric Study

Maya Naboulsi | Clarins

Abstract

Background: Female skin aging is not a linear process. Beyond chronological aging, the menopausal transition represents a distinct biological rupture. While postmenopausal skin changes are well documented, the perimenopausal period - the first phase of hormonal instability - remains poorly characterized in vivo. This study investigates the biometric skin alterations across the menopausal timeline, with particular emphasis on perimenopause vs early menopause.

Methods: A total of 121 healthy Caucasian women aged 30–65 years were stratified into four groups: premenopause (n=30, 30–40 years), perimenopause (n=30, 45–55 years), early menopause (≤5 years since menopause; n=30, 45–55 years), and late menopause (>5 years since menopause; n=31, 60–65 years). Non-invasive facial assessments included sebum production, transepidermal water loss (TEWL), stratum corneum hydration, mechanical skin properties, and standardized facial imaging. Statistical analyses were performed using parametric or non-parametric tests ($p \leq 0.05$).

Biography

Maya holds an international master's degree in the Development of Drugs and Health Products and is currently a PhD student at Paris-Saclay University. At this conference, Maya will present her latest findings on hormonally driven skin changes during the menopausal transition, with a particular focus on perimenopause and early menopause.

Company description

Founded in Paris over 70 years ago, the Clarins Group has shaped a unique vision of beauty, combining scientific expertise, plant-based knowledge, and a strong commitment to people and the planet. Through its two brands, Clarins and myBlend, the Group creates high-performance skincare and make-up that unite proven efficacy, refined sensoriality, and responsible innovation. Today, the Clarins Group is present in nearly 150 countries and continues to expand its international footprint, particularly across Asia and the Americas.

A Data-Driven Clinical Study Design for Acne Management Formulations, Integrating Dermatological Gradings, Instrumental Assessments, and Participant-Reported Outcomes - Dr. Simran Sethi | Cliantha Research

Abstract Background: Through methodologically sound, ethically governed clinical trials aligned with regulatory frameworks, the selection of research methodology plays pivotal role in scientific validation and claim substantiation of acne management formulations. By merging dermatological grading scales with advanced instrumental techniques, right methodology ensures a comprehensive evaluation of parameters.
Materials and Methods: Dermatological assessment techniques, viz. Acne lesions count of inflammatory (papules and pustules) and non-inflammatory (blackheads and whiteheads) lesions; skin redness (erythema), pigmentation; skin roughness and dryness; skin radiance; and facial pores assessment are proven methods for clinical assessments. Advanced instrumental assessment techniques include skin brightness, sebum level measurement, skin hydration, Transepidermal Water Loss, post-inflammatory hyperpigmentation (PIH) spot size, along with the image analysis equipment that quantifies skin texture, changes in severity of acne lesions and scars with precise depth and area measurements, skin pigmentation and redness, pore visibility etc. that provides instant, reproducible results. A structured self-assessment questionnaire further adds value. A randomized, parallel group, assessor-blinded, comparative study was designed for assessment of efficacy and safety of two topical formulae on 92 healthy adult participants with mild to moderate acne, over a 4-week treatment period with a 2-week relapse follow-up.
Results: Both the test products demonstrated significant reductions in total acne lesion count. Improvements were observed in acne severity, redness, elevation, and PIH intensity and size. Skin brightness and radiance improved significantly, with increased L* and dE94 values on cheeks and forehead. Sebum levels and excretion rates decreased consistently, while hydration level was significantly increased. TEWL values reduced, indicating enhanced skin barrier function. Sebaceous pore parameters - count, volume, porosity index, density, and depth exhibited marked improvement.
Conclusions: Both topical formulae demonstrated comprehensive efficacy and safety in managing acne-related imperfections. They delivered sustained benefits post-treatment and are well-suited as cosmetic interventions for acne-prone skin, supported by clinical, instrumental and subjective evidence.

Biography

Dr. Simran Sethi is the Senior Director at Cliantha Research, where she has been a key scientific and clinical leader since 2006. A clinician and she bring over 20 years of expertise across Clinical Research, Medical Affairs, and Phase I–IV clinical development. As Principal Investigator, Dr. Sethi has overseen more than 2,000 pharmacokinetic studies. Her core strengths include the design and execution of clinical trials in skin blanching, nutraceuticals, cosmetics and dermatology. She is a respected speaker in clinical trial conferences and GCP workshops where she is known for her clarity, scientific rigor, and deep domain knowledge.

Company description

Cliantha Research is a leading full-service Clinical Research Organization (CRO) committed to delivering high-quality, scientifically robust solutions for global pharmaceutical, biotechnology, and cosmetic companies. With expertise spanning Clinical Trials (Phase I–IV), Bioavailability/Bioequivalence studies, Dermatology research, and Consumer Healthcare, Cliantha ensures compliance with international regulatory standards. With global presence in India, the U.S., and Canada, Cliantha conducts high-quality trials across pharmaceuticals, biologics, cosmetics, personal care, and nutraceuticals in safety and efficacy segment. The organization integrates advanced technologies and ethical practices to provide end-to-end
services. Its multidisciplinary team of experienced professionals focuses on innovation, accuracy, and timely execution, making Cliantha a trusted partner for scientific innovations and claim substantiation. Ensuring applicable regulatory compliance with Good Clinical Practices (GCP), Cliantha combines scientific rigor with operational excellence to support clients in achieving regulatory approvals and market success.

Clinical imaging redefined: new standards in cosmetic evaluation with the C-Cube

Julie Przybylski | Pixience

Abstract

As cosmetic and dermocosmetic studies evolve, imaging technologies must do more than capture, they must deliver objective, reproducible, and quantifiable data aligned with clinical expectations. The C-Cube Clinical Research system, developed by Pixience, combines ultra-high-resolution 2D/3D imaging, colorimetric and geometric calibration, and AI-assisted analysis to meet these new standards.

Designed for real-world clinical use, the C-Cube enables automated measurement of multiple in vivo and ex vivo parameters, from skin tone and erythema to hair density, diameter, length, and scalp redness.

Compact, intuitive, and field-proven, the C-Cube is more than a device, it is a strategic asset for modern efficacy testing. This presentation will explore how advanced imaging combined with AI opens new possibilities for fast, reliable, and visually compelling evaluations in dermocosmetic research.

Biography

Julie Przybylski joined Pixience three years ago. She discovered a passion for skin and technologies dedicated to clinical research.

As part of Marketing departments, she works closely with the Pixience team to reinforce the company's position as a reference for innovation in skin imaging.

Company description

PIXIENCE
HEALTHCARE TECHNOLOGY SOLUTIONS

French leader in skin imaging, Pixience works every day in partnership with researchers and dermatologists to develop high-quality products intended for skin and hair imaging and analysis. They are ISO 13 thousand, 4 hundred and 85 certified and we are firmly committed to providing products of irreproachable quality, made with care in France. The C-Cube 3 combines in a single instrument the ability to evaluate 2D criteria: color, surface, pigmentation, erythema, ITA and 3D: roughness, depth, symmetry and texture distribution on the skin. The C-Cube 3 is equipped with an Ultra- HD camera, patented LED indirect lighting and exclusive 3D colorimetric and geometric calibration. This technology guarantees 0.1% accuracy and reproducibility of your measurements. It’s the ideal imager for analyzing all areas of the body and meeting all your requirements.

The Hormonal Revolution in Cosmetics: Women's Skin Health, Precision Personalization and Next-Generation Omics

Ramon Goya | Goya Innova

Abstract

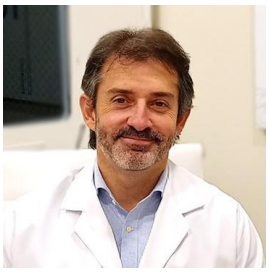
The cosmetics industry is undergoing a paradigm shift driven by an expanding understanding of endocrine physiology and its systemic influence on skin biology. Across the female lifespan from puberty and menstrual cycling to pregnancy, perimenopause, menopause, and stress-related Hypothalamic Pituitary Adrenal (HPA) axis activation hormonal fluctuations orchestrate complex molecular networks that regulate epidermal barrier function, dermal matrix remodeling, inflammatory cascades, pigmentation pathways, sebaceous activity, microbiome dynamics, and the trajectory of cutaneous aging.

This growing body of evidence is redefining innovation in cosmetic science. Moving beyond traditional symptom-oriented anti-aging concepts, the emerging hormonal paradigm embraces a biologically informed, life-stage-adapted model of well-aging. Skin is increasingly recognized as a hormonally responsive organ, reflecting systemic physiological transitions and requiring precision-driven strategies rather than generic solutions.

Recent advances in Next-Generation Omics Technologies, including transcriptomics, proteomics, lipidomics, and metagenomics, enable systems-level mapping of hormone skin interactions. These platforms facilitate the identification of predictive biomarkers, molecular signatures, and functional pathways that underpin personalized formulation, microbiome modulation strategies, and clinically substantiated claims.

By integrating translational research methodologies, advanced in vitro and ex vivo skin models, microbiome analytics, and robust Clinical Evaluation frameworks, this science-driven approach supports the development of hormonally intelligent cosmetic solutions designed to enhance skin resilience, promote women's health, and advance evidence-based well-aging throughout every stage of life.

Biography



Executive Director of Goya Innova, Ramón Goya Gato has a degree in Pharmacy and he is also a specialist in Clinical Analysis.

Entirely dedicated to laboratory work, he brings more than two decades of experience in the field of clinical and industrial analysis in the cosmetics, healthcare products, and food supplements sectors.

He is an expert in Cosmetic Product Safety Assessment, and his specialization covers laboratory testing and clinical research on these types of products.

Company description

DR. GOYA ANÁLISIS offers a complete portfolio of services for Cosmetics Products, Food Supplements and Medical Devices in the field of Quality Control and Clinical Evaluations. ANMAR CLINICAL SERVICES respond to the needs of cosmetic manufacturers in order to evaluate the safety and tolerance. GAIKER has nowadays 30 years of experience working in vitro models to support R&D and marketing claims. The DR.GOYA ANALISIS, ANMAR and GAIKER synergy, makes this group of companies one of the most solid alternatives for the analysis of cosmetic products, health products and food supplements.

The Endocrine Epigenome: Hormones Shaping Skin Biology

Philippe Papadimitriou | Cosystems

Abstract

Hormones exert a powerful and long-lasting influence on tissue biology by shaping how genes are expressed over time. This regulatory dimension, referred to as the endocrine epigenome, provides a unifying perspective to understand how identical genomes can give rise to profoundly different phenotypes, rates of aging, and adaptive capacities. Skin, as a hormonally sensitive, regenerative, and environmentally exposed organ, offers a particularly relevant model to explore these dynamics in a context of high interest for cosmetic science. Across the lifespan, hormonal signals act in concert with metabolic and environmental factors to influence skin structure, resilience, and the capacity to maintain its physiological functions. Circadian hormones such as melatonin, cortisol as a key mediator of metabolism and stress, and (female) sexual hormones play central roles in orchestrating repair processes, inflammatory balance, extracellular matrix homeostasis, and barrier integrity. Importantly, skin biology appears to be influenced not only by hormone levels, but also by the temporal organization and coherence of endocrine signals. Rhythmic hormonal patterns tend to support balanced adaptation and repair, whereas dysregulated or noisy endocrine states are associated with increased vulnerability, altered aging trajectories, and reduced resilience. Such contrasts become particularly evident during phases of hormonal variability, including the menstrual cycle and the transition through perimenopause and menopause. By linking hormonal contexts to molecular and cellular responses in skin, this presentation proposes a systems-level view of hormone–skin interactions that goes beyond single targets or ingredients. Highlighting representative pathways and biomarkers relevant to skin quality and aging, it aims to provide cosmetic scientists, evaluators, and developers with conceptual tools to rethink active design, testing strategies, and interpretation of efficacy through the lens of endocrine-driven regulation.

Biography

Innovation, curiosity, and science are the three cornerstones of Philippe Papadimitriou's approach to cosmetics and health. Guided by this ethos, he has led multidisciplinary teams to develop breakthrough formulations, drive market growth, and translate cutting-edge research into consumer-ready solutions. Drawing on extensive academic training in molecular biology, pharmacology, biochemistry, and neuroscience, as well as deep expertise in every stage of product development, including designing (pre)clinical studies, Philippe consistently transforms complex challenges into tangible solutions. With more than 20 years in cosmetology, he serves as honorary Scientific Director at Hormeta and acts as Open Innovator at Cosystems, the freelance entity he founded in 2019.

Company description

cosystems

Cosystems embodies innovation in its most meaningful sense.
We partner with organizations to explore new physiological pathways and biomarkers, transforming scientific insight into impactful, value-driven solutions. From the design and development of novel active ingredients to the intelligent repurposing of existing ones, we unlock new opportunities across product portfolios. Cosystems supports every stage of product innovation, from ingredient selection and formulation strategy to regulatory navigation, claims substantiation, and testing. We also design tailor-made preclinical and clinical programs aligned with each project's scientific ambition and business objectives. Beyond development, we empower teams through targeted scientific education and provide rigorous feasibility assessments to determine whether an R&D program truly merits investment. By optimizing time, talent, resources, and effort, we help ensure that promising ideas evolve into credible, differentiated, and high-value outcomes.

The role of hormones in the development of hyperpigmentation and evaluation strategies

Elodie Prestat-Marquis | NAOS

Abstract

Hormonal fluctuations are an intrinsic aspect of human life, influencing various physiological processes—including those of the skin. These changes, which may naturally arise during different periods of life, or in response to specific medical conditions and treatments, can manifest visibly through modifications in skin pigmentation. Hormonal fluctuations have the potential to act on the synthesis and distribution of melanin, consequently affecting skin tone and overall appearance. We will explore how dermocosmetics can contribute to managing these conditions and the approaches used to assess their efficacy.

Biography

Elodie Prestat-Marquis is Clinical Studies Director in NAOS, leading the clinical evaluation plans for the BIODERMA, INSTITUT ESTHEDERM and ETAT PUR brands products, since 2023.
With over 23 years of experience in the conception and management of clinical studies, she is a passionate expert in Dermocosmetics evaluation.

Company description

NAOS is a French multinational company that designs, manufactures and markets skin care and health products worldwide under the Bioderma, Institut Esthederm and État pur brands. NAOS is a purpose driven company whose vocation is to love, understand and care for the living, placing ecobiology at the heart of its developments.

Modeling Acne Vulgaris: Efficacy testing with human hair follicle ex vivo cultures

Onur Egriboz | DWI Labs

Abstract

The common acne (acne vulgaris) affects 85% of adolescents and early adults in the visible skin regions packed with sebaceous glands, such as the face. Hormonal fluctuations involving androgens, estrogens, and corticosteroids drive sebaceous gland hyperactivity, precipitating the chronic inflammatory disorder of the pilosebaceous unit. Pro-inflammatory cytokines, specifically IL-1α, IL-1β, and TNF-α, serve as primary orchestrators of early pathogenic events.

Targeting these mediators and their downstream signaling cascades is a proven strategy for formulating anti-acne reagents. While distinct from facial pilosebaceous units, microdissected scalp hair grafts possess the essential cellular architecture to simulate these inflammatory stages ex vivo. DWI Labs' acne model successfully demonstrates the upregulation of key biomarkers, including IL-8 secretion, in response to IL-1β stimulation. Notably, the NF-κB pathway inhibitor nicotinamide significantly attenuated these IL-1β-induced responses, validating the model's utility for screening anti-acne compounds.

Biography

Onur Egriboz holds a Ph.D. in molecular genetics from the Ohio State University, with wide range of skills in systems biology and pathway analyses. His postdoctoral research in cancer biology built the foundations of his expertise in disease modeling.

After working for a major contract research organization for several years, evaluating pharmaceutical reagents in preclinical studies, he founded Deriworks Incorporated (DWI) in 2023. Currently, DWI operates a research laboratory in Istanbul, Turkey and a business office in Muenster, Germany.

Company description

DWI Labs is a contract research organization, which designs and executes customized research and development projects, using ex vivo organ cultures of human tissue, including hair follicles or skin. These experiments are typically geared towards testing the efficacy and safety profiles of active ingredients. Our lab is fully equipped to deliver the data as the output at the end of the projects, including the data analysis in a final report. Our clients do not need to have their own laboratory space or scientific expertise; however, we can also deliver experimental material, such as tissue sections on slides, RNA/DNA extracts from samples, culture supernatants, etc., if the client would like to pursue their own downstream analytical procedures.

The hormonal revolution of menopause: a journey through changes in skin and hair

Lorena Bellas Domínguez | Zurko Research

Abstract

Menopause marks a period of profound hormonal changes that directly affect the health and appearance of the skin and hair. In this presentation, we will present a combined analysis of subjective perception and objective measurements.

Through a questionnaire designed to identify the most common changes, we will explore how women experience these processes in their daily lives.

These results will be integrated with instrumental data and evaluations carried out by Zurko Research's teams of experts.

The aim is to offer a holistic and evidence-based view of the real impact of hormonal fluctuations, as well as to highlight opportunities for the development of cosmetic products that are more precise and empathetic to the needs of this stage of life.

Biography

After completing her degree in Biology, she decided to focus her career on a field that had always sparked her interest and, above all, her enthusiasm. She therefore specialized in the cosmetics industry, a sector in which she has more than 11 years of experience in different areas, specializing in the area of Skincare in Vivo Efficacy Testing, a department she has been responsible for for just over 8 years at Zurko Research. She currently combines this position with the leadership of the Development Area.

Company description

Zurko Research stands as the larguest Spanish and prominent European CRO, boasting nearly 20 years
of expertise. Operating from various sites in Spain and office in NYC, Zurko Research specializes in
In-Vivo Clinical Efficacy and Safety studies for Cosmetics, Medical Devices, and Food Supplements.
Since 2021, CTC Barcelona, recognized as Europe's premier Hair Care testing lab, has joined the Zurko group. This collaboration broadens our scope, providing an extensive range of In-vivo and Ex-Vivo Hair care studies.

Dermal Interstitial Fluid: Pain- Free Sampling of Molecular Biomarkers in Clinical Studies

Jeremy Bost | Ascilion

Abstract

Dermal interstitial fluid (dISF) is a highly-concentrated biofluid that surrounds cells in skin tissue. dISF is highly concentrated in molecular biomarkers and therefore comprises a novel alternative for biomarker analysis to blood or skin biopsy, enabling higher patient comfort and continuous biomarker monitoring.

Ascilion has developed a system utilizing hollow microneedles and gentle subpressure application, capable of sampling dISF in a pain-free manner. Importantly, the volumes of dISF sampled are useful for high-sensitivity molecular assays and biomarkers panels. Interestingly, biomarker species quantifiable in dISF include dermal inflammation markers, skin barrier and health markers, hormones, lipids, and both endogenous and exogenous (bacterial) metabolites.

Biography

Jeremy Bost, Ph.D. is the Head of Clinical Affairs at Ascilion, an emerging medical device company based in Stockholm Sweden. Ascilion currently has customers using the miconeedle-based PELSA system in 12 countries on 5 continents, and has been involved in over 20 clinical studies to date. Dr. Bost has worked in translational and clinical research with a focus in dermatology and medical devices.

Company description

ascilion

Ascilion is a medical device company pioneering minimally invasive access to dermal interstitial fluid (dISF) to unlock a new generation of biomarker-driven diagnostics and monitoring. The company has developed a proprietary microneedle-based system designed to collect dISF in a simple, patient-friendly, and reproducible way, without the pain or complexity of traditional blood draws or skin biopsies. Because dISF reflects dynamic physiological processes at the tissue level, it offers rich insights into cosmetic efficacy, therapeutic response, and health status across a range of skin types.

Ascilion's platform is built to integrate seamlessly into clinical and research workflows, enabling high-quality sample collection suitable for advanced analytical methods. By making dISF accessible at scale, Ascilion aims to accelerate biomarker discovery, support precision medicine, and empower clinicians, researchers, and industry partners with more actionable biological data—bringing diagnostics closer to the biology that matters most.

Beyond Cosmetics: Evaluating Topical Chemical Exposure and Its Impact on Human Health

Sébastien Grégoire | Consultant

Abstract

Exposure to chemicals is a big concern for human health. Among all routes of exposure to chemical, topical route is important with different exposure scenarios.

Level of absorption to chemical topically applied is usually done with skin absorption study using human skin. Using validated analytical method, the amount of chemical penetrating the skin is quantified. Knowing chemical toxicity, a risk assessment can be done. For consumer exposure to cosmetics, Sccs guidelines provided define protocol.

Guidelines for pesticides are also well described. Nevertheless, many other scenarios cannot be easily defined. What should be the scenario of non-occupational exposure to polycyclic aromatic hydrocarbons in urban environment? How to evaluate a working day of a hairdresser submitted to repeated exposure?

Impact of the different experimental parameters of skin absorption studies on the level of chemical absorption and their consequences on risk assessment will be discussed.

Alternatives to in vitro human skin absorption study are possible to overcome such constraints. Monitoring the level of exposure can also be done through biomonitoring within plasma or urine. Of course, such monitoring can be done knowing metabolism profile. Thus, for Benzo[a]pyrene, the hydroxylated metabolite is quantified. Examples of biomonitoring of different chemicals topically applied will be presented.

Biography

Analytical chemist specialized in Mass Spectrometry, Sebastien Gregoire worked for Pharmaceutical and Cosmetic Industry over 25 years. At L'Oreal, he was in charge of all aspects of Skin Bioavailability. He developed QSAR models dedicated to skin absorption, screening assay using reconstructed skin or synthetic membrane, in vivo protocol ... He supported also brands for revendication around questions related to skin absorption. He was representative of L'Oreal at Cosmetic Europe and participated to different programs (LRSS, ICCS). He is acting now as independent consultant.

Company description

Sebastien Gregoire Consulting was founded october 7th 2025. Based on its experience, Sebastien Gregoire PhD provides his advices and supports on all topics related to skin bioavailability from preliminary in silico evaluation to ultimate in vivo proof. Mass spectrometry became over the years the method of choice for bioanalytical work. He also supports any mass spectrometry development for qualitative and quantitative analytical work.

Exposing the exposome: over a decade of research on the harmful effects of the exposome on the skin

Juliette Sage | LVMH Recherche

Abstract

J. Sage, M. Moreau, M. Juan, C. Marteau, L. Sobilo, E. Leblanc, C. Brun, M. Dumas, C. Heusèle, A.-L. Bulteau, C. Nizard, K. Pays

The exposome encompasses environmental exposures (pollution, UV radiation, temperature changes and lifestyle factors) individuals encounter throughout life. The skin, being directly exposed to the environment, is significantly affected by the exposome, which studies link to accelerated skin ageing and diseases.

To investigate the exposome's impact we employed diverse experimental approaches with increasingly sophisticated models, including primary cell cultures, human reconstructed skin and skin explants, exposed to different types of stressors. We used biochemical assays to examine oxidative stress and evaluated changes in skin structure and levels of key proteins using immunohistochemistry techniques. We conducted a clinical study focusing on sleep deprivation to further explored in vivo skin parameters.

Our findings demonstrated that environmental stressors induce oxidative stress and alters skin integrity and morphology. This includes the accumulation of oxidized proteins and lipids, reduced antioxidant defenses, and compromised mitochondrial function and protein degradation systems. Structural changes like decreased collagen density and altered epidermal structure were also observed. Furthermore, sleep restriction notably altered skin and facial appearance.

These studies confirm the exposome's crucial role in skin ageing by inducing molecular and structural damage, emphasizing the importance of better understanding it to develop targeted strategies to prevent and limit its harmful effects.

Biography

Juliette SAGE earned a PhD in Biochemistry from the University of Tours in 2012, in partnership with LVMH Recherche, allowing her to combine her passion for scientific research with the cosmetics industry from the very beginning of her career.

After gaining valuable experience as a project manager at active ingredient suppliers, Juliette joined LVMH Recherche in 2016. She currently leads the Biochemistry & Molecular Biology Laboratory, where she integrates these disciplines to develop innovative in vitro models. These models are crucial for deepening the understanding of skin physiology and for demonstrating the efficacy of active ingredients for the Group's various Maisons.

Company description

LVMH / RECHERCHE Parfums & Cosmétiques

Serving all the beauties of the world, LVMH RECHERCHE is the visionary creator of exceptional makeup, skincare and perfume products for each House of the LVMH group. This research and innovation structure brings together 700 talents spread across 5 sites around the world. Guided by Excellence and their unique know-how, LVMH RECHERCHE talents create innovative, high-performance products with exceptional sensoriality and developed with the greatest respect for the environment. In a spirit of openness to the world, LVMH RECHERCHE is also part of an Open Innovation approach to detect and integrate the best technological advances into its products, in fields as varied as agroecology, biotechnologies, cell biology, advanced materials, new processes or artificial intelligence.

QISS: Quantitative Imaging for Skin Studies

Abdel Aouacheria | CNRS

Abstract

With advances in microscopy and the exponential growth of computing power, cellular imaging has entered the Big Data era. The generation, processing, analysis, visualization, and interpretation of high-content, multidimensional imaging data now represent a major bottleneck for the cosmetics sector. To address this challenge, our team has developed innovative technological solutions combining advanced in vitro models with custom software.

Our first research axis focuses on a miniaturized platform, MITOMATIQUE, enabling rapid, robust, and quantitative assessment of mitochondrial health. This approach generates “computational mitograms” from living cells cultured in 2D and imaged by confocal microscopy. Beyond the objective evaluation of bioactive ingredients, MITOMATIQUE allows the characterization of combinatorial effects of the cutaneous exposome through phenotypic profiling of cells exposed to realistic cocktails of environmental toxicants (e.g. atmospheric pollutants, plastic residues, phytosanitary compounds).

Our second research axis led to the development of NOXISCORE, an automated, animal-free assay designed to assess the potential toxicity of formulation mixtures under realistic conditions of use and stress. Based on human skin biopsies coupled with digital histometry, this technology produces “computational nucleograms” that quantify the toxicological impact of combined dermato-cosmetic products, such as sunscreens and insect repellents.

Biography

Dr. Abdel Aouacheria is a senior scientist trained at the ENS de Lyon, internationally recognized for his expertise in mitochondrial biology and the regulation of cell survival and death. Now based at Montpellier University, he bridges fundamental biology, quantitative imaging, and application-oriented research. He has led multiple industrial projects in cosmetology (notably with SILAB and CLARIANT), developing high-content imaging tools to assess organelle health and cellular responses to complex exposures. Author of a reference book on programmed cell death, he currently coordinates the ANR MitoDanger project, focused on quantifying mitochondrial toxicity induced by chemical mixtures for exposome-aware safety assessment.

Company description

The Institute of Evolutionary Sciences of Montpellier (ISEM, CNRS UMR 5554) is a leading research institute dedicated to the study of biodiversity, evolution, and organism–environment interactions. Its research spans all levels of biological organization, from molecules to ecosystems, and addresses major societal challenges including climate change, biodiversity loss, and health–environment relationships. By combining field ecology, experimental biology, quantitative imaging, genomics, and modelling, ISEM develops integrative approaches to understand responses to environmental and chemical stressors. ISEM is internationally recognized for its excellence in evolutionary genomics, long-term ecological monitoring, and biodiversity–health interfaces, providing robust frameworks relevant to exposome-oriented risk assessment and sustainability-driven innovation.

Antera 3D & anti-ageing

Guido Mariotto | Miravex

Abstract

We will describe the Antera 3D – (Miravex, Ireland) – that allows users to image, measure and analyse in a quantitative way skin topography, colour and spectral properties.

We will discuss the role of Antera 3D for anti-ageing applications.

Biography

Dr. Guido Mariotto obtained his MSc degree in Physics from the University of Turin (Italy) in 1996 and his PhD in Physics at Trinity College Dublin (TCD) in 2001. From 2001 to 2009 he worked in TCD as a Research Fellow where he published extensively in some of the most renowned peer reviewed Physics journals.
In 2009, Dr. Mariotto co-founded Miravex Limited, an Irish company specialized in skin imaging. A highly innovative company, Miravex has introduced a new concept in skin imaging with the Antera 3D camera and has established itself as one of the leading providers of cameras for skin analysis worldwide.

Company description

Miravex Limited is an Irish company specialized in the areas of optics, image analysis and software engineering. A highly innovative company, Miravex has introduced a new concept in skin imaging with the Antera 3D camera and has established itself as one of the leading providers of cameras for skin analysis worldwide.
The Antera 3D CS is a research-grade camera & software that will help you to substantiate your claims.

Approach to substantiating the claim: Protection against the impact of the exposome on hair cand scalp condition

Oliwia Kalinowska | J.S. Hamilton

Abstract

The categorization of exposome factors is an extremely complex topic. The purpose of this presentation is to contribute to the standardization of defining exosome factors, as well as to address the needs of the commercial testing market and support the process of cosmetic product development. Hair and scalp care products require an even more individualized approach in this type of research

One of the approaches proposed by the J.S. Hamilton Laboratory for evaluating the effectiveness of a cosmetic product in protecting against the negative impact of exposome factors on the hair and scalp involves a series of tests that take into account scalp microbiome analysis, the antioxidant potential and pH of the cosmetic formulation, as well as the product's thermoprotective properties and UV protection. This is a combination of in vitro, ex vivo, and in vivo evaluations, accompanied by clinical assessment by a dermatologist and a trichologist. Clinical evaluation combined with instrumental measurements allows for an in-depth, non-invasive investigation of exposome-related issues within the studied population.

Only if the cosmetic product proves effective in mitigating the effects of the exposome - its defined components - can we provide data supporting this claim.

Biography

Oliwia Kalinowska is an MPharm Senior Cosmetic Product Specialist, continuously expanding her expertise in dermatological testing, physicochemical methods for cosmetic analysis, application and instrumental studies, as well as the analysis and interpretation of research results. She is currently involved in study documentation, including SOPs, procedures, and clinical data management processes. She supports clients in selecting appropriate testing methodologies, with particular focus on their clinical relevance. She represents the company during meetings with international partners, where she discusses study protocols and provides guidance on tailoring the testing strategy to the specific needs of each product. Her background in pharmacy and computer science allows her to combine a scientific perspective and analytical approach with a practical understanding of product safety and efficacy.

Company description

J.S. Hamilton is a leading, accredited testing laboratory in Eastern Europe, also recognized as a CIR-approved laboratory, providing reliable services across multiple industries, including food, cosmetics, pharmaceuticals, consumer goods, packaging, and environmental sectors. One of its thriving branches is the cosmetic products testing laboratory, offering extensive experience in dermatological testing, physicochemical analyses, application and instrumental studies. The laboratory supports clients throughout the product development process, combining scientific rigor with practical expertise to deliver actionable data that meet regulatory requirements and market expectations. J.S. Hamilton works closely with international partners, offering tailored testing strategies to optimize product safety, efficacy, and performance. By integrating scientific innovation with a client-focused approach, the laboratory contributes to the creation of high-quality, effective cosmetic testing solutions that address real consumer needs and support substantiated product claims.

Moving from Marketing Claim to measurable performance

Mansi Tandon | Cliantha Research

Abstract

This presentation provides a concise overview of our organization, highlighting our core strengths, service capabilities, and commitment to delivering high-quality, research-driven solutions. It outlines our operational excellence, key expertise areas, and the value we bring to clients through innovation, regulatory compliance, and customer-centric delivery. The presentation is designed to give stakeholders a clear understanding of the organization's capabilities, competitive advantages. With deep expertise in Dermatology and Consumer Clinical Research, we provide end-to-end testing solutions for skincare, haircare, makeup, nutraceutical, and wellness products, ensuring clients receive evidence-backed insights to strengthen market positioning. Our capabilities span product safety evaluations, efficacy assessments, sensory testing, consumer perception studies, and marketing claim support, all designed under strict ICH-GCP standards for quality and reliability. With decades of combined dermatology and personal care expertise, we are committed to providing ethical, customer-centric services that empower brands to launch safe, effective, and scientifically validated products. Our mission is to support innovation through research excellence and help clients navigate regulatory pathways with confidence.

Biography

My name is Mansi Tandon, and I serve as a Business Development Professional with over 15 years of experience in the field of clinical research for personal care products. I hold a Master's Degree in Biotechnology. My work centers around understanding market dynamics, identifying emerging opportunities, strengthening client relationships, and leading end-to-end business development initiatives by aligning customer needs with business capabilities. I'm passionate about enabling organizations to grow through collaboration, innovation, and a strong customer-first approach I'm excited to connect, share insights, and explore new partnership opportunities. Thank you.

Company description

Cliantha Research is a leading full-service Clinical Research Organization (CRO) committed to delivering high-quality, scientifically robust solutions for global pharmaceutical, biotechnology, and cosmetic companies. With expertise spanning Clinical Trials (Phase I– IV), Bioavailability/Bioequivalence studies, Dermatology research, and Consumer Healthcare, Cliantha ensures compliance with international regulatory standards. With global presence in India, the U.S., and Canada, Cliantha conducts high-quality trials across pharmaceuticals, biologics, cosmetics, personal care, and nutraceuticals in safety and efficacy segment. The organization integrates advanced technologies and ethical practices to provide end-to-end services. Its multidisciplinary team of experienced professionals focuses on innovation, accuracy, and timely execution, making Cliantha a trusted partner for scientific innovations and claim substantiation. Ensuring applicable regulatory compliance with Good Clinical Practices (GCP), Cliantha combines scientific rigor with operational excellence to support clients in achieving regulatory approvals and market success.

Monitoring Heavy Metal Contaminants in the Human Hair Matrix: A Perspective for Cosmetic Safety Assessment

Salvatore Del Prete | Service Biotech

Abstract

The human hair matrix is an effective tool for biomonitoring chronic or past exposure to substances, including heavy metals. Unlike short-term indicators such as blood or urine, hair offers an extended detection window, and segmental analysis enables reconstruction of exposure over time. This makes it especially useful for evaluating the accumulation of contaminants potentially linked to long-term use of cosmetic products. The aim of this study was to measure the average concentration of heavy metals in a selected population to define reference levels and identify potential buildup.

The study involved 15 healthy, non-smoking women aged 15–55 who do not live in highly polluted urban areas. Hair samples, taken non-invasively from the back of the head, ensure high compliance and easy storage. Elemental analysis was performed using Energy Dispersive X-ray Spectroscopy (EDX) combined with Scanning Electron Microscopy (SEM).

EDX is highly sensitive and allows simultaneous detection and quantification of a wide range of heavy metals in very small amounts, providing percentage weight distribution (Wt%) within the hair matrix. This methodology offers a promising diagnostic tool for environmental exposure and cosmetic safety assessment. Future developments include applying the approach to 3D skin models to further explore absorption mechanisms.

Biography

Graduated in Medical Biotechnology at Federico II University with an internship in the Department of Cellular and Molecular Pathology under Prof. P. Formisano. Completed post-graduate internships at CEINGE with Prof. Iolascon on Sec23B and a two-year residency under Prof. V. Esposito in the Anatomy Department. Trained in TEM, STEM, and confocal microscopy at the University of Modena and Reggio Emilia; participated in six SOI training courses and served as instructor in two. Speaker at SEGMANT and other scientific events. Holds master's degrees in Microbiology and Parasitology, and in Bioethics. CEO and founder of Service Biotech (2017), with 34 publications (H-index 9) and four patents.

Company description

Service Biotech stems from the long experience of Prof. Antonio Del Prete, a pioneer in the academic field of the clinical application of ultrastructural analysis directly on humans using non-invasive methods: Salvatore Del Prete in 2017 by creating Service Biotech had the intuition to broaden the scope of application of SEM, EDX and TEM technologies to the analysis of many types of biological samples and microorganisms in the human body.
Today, Service Biotech has rapidly established ourselves as a leader in our field as a unique vertical integration, offering specialised services to a service company specializing in 2D and 3D ultrastructural biology analysis to meet the R&D and QC needs of the biotech, pharmaceutical, biopharmaceutical and cosmetics industries as well as medical professionals and CROs (clinical and non-clinical).

Evaluation of the effects of thermal stress on the surface condition of the hair by interferometric microscopy

Edouard Macé | Eotech

Abstract

Interferometric microscopy, also known as Peak Fringe Scanning Microscopy (PFSM), has only recently been applied to the characterization of hair surfaces. This study aims to evaluate its relevance in assessing the impact of thermal stress on hair fiber surfaces.

MiniSURF, a full-field optical interferometer utilizing PFSM technology, was employed to analyze Caucasian hair samples. Initial measurements were taken to establish baseline surface conditions. The samples were then subjected to various thermal stress protocols simulating real-life scenarios, including exposure to a hair dryer and a straightening iron. Multiple cycles of heat application were performed, and surface measurements were taken after each treatment. Using appropriate analytical parameters, surface roughness values were extracted for each hair fiber.

The findings demonstrate a measurable alteration in hair surface morphology following thermal stress, confirming the sensitivity of interferometric microscopy to changes induced by heat exposure.

These results support the potential of interferometric microscopy as a valuable tool for quantifying the effects of aggressive treatments on hair. Future studies involving other types of stressors as well as cosmetic treatments should further validate its applicability in cosmetic and dermatological research.

Biography

Edouard Macé hold a Master degree in Polymer Science from Paris University. He CEO & VP Sales at EOTECH.
Based in Paris area, EOTECH is a leading producer of 3D scanners for in vivo skin relief analysis, as well as hair surface state measurement. Before taking over EOTECH from his former manager and founder, Edouard hold several positions in the raw materials distribution.

Company description

Based in Paris area and founded in 1993, EOTECH is a leading producer of 3D imaging systems for the skin relief analysis. The combination of positioning benches, 3D scanners based on fringe projection technique and a user-friendly software allow to record reproducible data and perform automated evaluations over a complete study. EOTECH also offers other contactless measuring devices for bio-metrology (firmness measurement, thermal imaging) as well as a range of related services (rental, after-sales service, analysis services).

Advancing Cosmetic Testing with Nevisense EIS

Jonas Fredriksson | Scibase

Abstract

Accurate evaluation of skin barrier function is critical for cosmetic product development. Nevisense, powered by Electrical Impedance Spectroscopy (EIS), enables non-invasive measurement of structural and functional skin changes beyond what traditional methods such as transepidermal water loss (TEWL) can detect. Originally developed in collaboration with the Karolinska Institute, Nevisense is clinically validated and has an established medical indication for the detection of skin cancer, including melanoma, supported by FDA approval and CE marking. Using multi-frequency signals that capture over 700 data points per measurement and penetrate up to 2.5 mm, EIS quantifies subclinical barrier alterations linked to hydration, lipid organization, cellular integrity and inflammation. Clinical studies demonstrate that EIS detects early barrier disruption, measures treatment response, and remains robust against environmental and behavioral confounders. Increasingly applied within cosmetic testing, EIS offers a sensitive, reproducible and objective method to assess product efficacy and monitor skin barrier health over time.

Biography

Jonas Fredriksson is Business Area Manager at SciBase, driving international business development and research partnerships around Nevisense and Electrical Impedance Spectroscopy (EIS). With 25 years in life science and MedTech, he has led numerous global product launches and strategic collaborations. At SciBase, Jonas works to expand the use of EIS technology and build research and industry collaborations within skin health.

Company description

SCIBASE

SciBase is a Swedish MedTech company that develops, manufactures and commercializes the Nevisense platform — a unique point-of-care solution combining Electrical Impedance Spectroscopy (EIS) with AI to deliver objective insights into skin health. The technology is founded on more than 30 years of research from the Karolinska Institute in Stockholm. Initially developed and clinically validated for early melanoma detection, Nevisense is now also applied in cosmetic and dermatological research to assess structural and cellular changes related to skin integrity. Its sensitivity and reproducibility make it a valuable tool for evaluating product performance and studying how different formulations, ingredients and environments affect the skin. By providing objective, non-invasive measurements beyond traditional methods, SciBase enables researchers and industry partners to demonstrate efficacy, support claims and deepen understanding of skin health. The company’s mission is to advance better skin diagnostics through data-driven technology.

Deep skin hydration

Jean-Michel Bascole | Delfin

Abstract

Understanding true skin hydration requires more than surface-level measurements. Traditional methods primarily assess stratum corneum moisture, which can be heavily influenced by temporary occlusion or product residue. Delfin MoistureMeter technology, based on Tissue Dielectric Constant (TDC) measurement, enables objective assessment of skin water content at controlled depths beneath the surface. This depth-controlled measurement capability is unique to Delfin and allows researchers to evaluate hydration beyond the superficial layer. By assessing deeper tissue water, it becomes possible to distinguish short-term cosmetic effects from meaningful physiological changes. During this presentation, we will demonstrate what makes Delfin technology unique - its deeper measurement depth capability - and present a research case showing how MoistureMeter technology provides insights that cannot be achieved with surface-only techniques.

Biography

Jean-Michel Bascole joined Delfin Technologies three years ago as R&D Specialist. He brings more than 25 years of experience in the development of electronic devices for body treatments and skin analysis, as well as innovative technologies dedicated to improving cosmetic product testing. His expertise contributes to advancing reliable, high-performance solutions for the cosmetics and dermatology industries.

Company description

DELFIN

Delfin Technologies is a health technology company that specializes in developing innovative, high-quality, and user-friendly devices for objective skin and lymphedema measurements.
Our mission is to improve people's quality of life by creating advanced solutions for lymphedema detection and monitoring, and by making the development of skin care products safer, easier and more effective. Our cutting-edge medical devices, tailored for lymphedema monitoring, are the core of our company's foundation.
We are committed to excellence at all levels of our organization, and we take pride in contributing to people's well-being. At Delfin, every innovation is backed by science, and the quality of the products is supported by world-class customer support and after-sales service.
Delfin has a rich history of collaboration with some of the world's top companies and professionals in both skin research and medical applications. Delfin's products not only meet specific research needs, but also open up exciting opportunities for new discoveries in skin and tissue research, and in lymphedema care.

Our global market reach spans over 40 countries worldwide, with North America, Europe, and Asia representing the leading markets. We are located in Kuopio, Finland and serve our customers through our global network of distributors and representatives.

Delfin Technologies is an ISO 13485:2016 certified company.

Skin, Hair and Nails Exposome Through Omics

Paolo Bonini | olobion

Abstract

The exposome shapes skin, nails and hair biology through oxidative stress, barrier alteration, inflammation, and chemical accumulation. oloBion analyzes skin, hair and nails with metabolomics and lipidomics to see how everyday exposures change them. We standardize sampling: sebum swabs, stratum-corneum tape strips, and nail clippings and run both untargeted and targeted high-resolution mass-spectrometry assays. Rigorous QC with internal standards ensures reproducible lipidome and metabolome profiles including large population studies with inter-batch correction.

Our analyses detect more that 30 lipid classes like ceramide and free-fatty-acid remodeling; oxidized lipids and small-molecule markers of oxidative stress and inflammation; and retained xenobiotics and metabolites from food and drug exposure.

Across these three matrices we detected exogenous molecules acquired directly from external sources such as cosmetics (UV filters, e.g., octocrylene; fragrances/preservatives such as parabens), diet (capsaicin, resveratrol, caffeine), drugs and their metabolites, and environmental exposure (nicotine/cotinine, contaminants).

Data were compiled and processed in oloMAP, then subjected to bioinformatic and statistical analyses. We apply a multi-omic view, integrating metabolomics and lipidomics to test cross-layer interactions and shared pathways. Group comparisons (e.g., presence vs. absence; high vs. low) will reveal significant differences that support hypothesis generation, biomarker discovery, and translational applications, including objective endpoints and mode-of-action readouts for clinical or industry studies. Together, these results enable scalable exposome studies that bridge basic biology, product development, and clinical assessment.

Biography

Paolo Bonini is founder and CEO of oloBion, a Spanish company specialized in advanced metabolomics, proteomics and lipidomics for the pharma, biotech, cosmetics and AgTech sectors. A scientist-entrepreneur with over 19 years of experience, Paolo has developed his career at the interface between plant science, analytical chemistry and innovation, contributing to several publications in journals such as Nature Biotechnology and Analytical Chemistry. At oloBion, he leads a multidisciplinary team that translates complex omics data into actionable insights, helping cosmetic companies better understand skin biology, optimize formulations and accelerate innovation in efficacy, safety, personalization and regulatory compliance.

Company description

oloBion, a Spanish company, is specialized in advanced metabolomics, lipidomics and proteomics. By combining OMICS technologies with strong expertise in pharmacokinetics and biology, we help brands interpret skin biology, validate new ingredients and develop more effective, evidence-based products.

In cosmetics, we perform in-depth molecular profiling of skin, metabolome, proteome and lipidome to better understand aging, hydration, barrier function and inflammation, and we assess the ingredients and actives by testing their efficacy and mechanism of action.

In parallel, we also support drug discovery and ADME-Tox studies as well as offering agro-food and bioprocess services. All these activities are powered by oloMAP, our multi-omics portal. It turns complex datasets into clear, bioinformatics-based visuals and insights that non-omics users can readily understand.

Effect of hydration on the mechanical properties of the sub-skin layers

Hassan Zahouani | LTDS

Abstract

Water is the main component of our body, representing on average 70% of its total mass. This mass is 75% in infants and 65% in adults and can drop to 45% depending on body type and age. Most of this water, nearly 55%, is stored within our cells, which explains why dermatologists pinch the skin to assess its level of dehydration. Water is present throughout the skin, and its protection from external aggressors varies depending on the effectiveness of its barrier function.

This work investigates the effect of hydration on the viscoelastic behavior of the skin sublayers. Two approaches will be presented: the first method is based on the analysis of the indentation curve of a sphere under low load. The experimental model allows for the quantification of contact pressure across all skin sublayers, from the surface of the stratum corneum, by determining the elastic modulus of the epidermis, the superficial dermis, and the dermo-epidermal junction. The second approach involves non-contact loading based on the initiation of shear waves after impact by an airflow. Measuring the shear rates, elasticity, and viscosity across all layers allows for the quantification of the kinetics of hydration in the short and long term.

Biography

Hassan Zahouani is a professor at École Centrale de Lyon (classes of excellence 1 and 2). He is also a lecturer at Halmstad University. His research focuses on the morphological and mechanical properties of living tissues and their evolution during aging.

For several years, Stanford University has published an international ranking of the world's top-performing scientists. Hassan Zahouani was ranked by this organization in 2021, 2022, 2023, 2024, and 2025, placing him among the top 2% of researchers. In 2024, he was cited as a Top Scholar among the top 0.5% of scientists worldwide by Scholar GPS.

Multi-Dimensional Strategies to Improve Skin Hydration: Barrier Restoration, Gentle Anti-Aging and Antioxidant-Glycation Across Three Cosmetic Systems

Lieve Declerc | Proya

Abstract

In China's fast growing dermo cosmetic market, hydration is increasingly viewed as the biological anchor for comprehensive skin health. Modern consumers expect moisturizing products to simultaneously enhance barrier robustness, deliver gentle anti aging benefits, or protect against oxidative and glycation driven damage. Proya has developed three complementary systems that illustrate a multi dimensional strategy to improve hydration through barrier repair, controlled retinoid activity, and cellular level defense mechanisms.

The Ruby Series demonstrates how hydration intersects with gentle anti aging. Its "dual A + dual peptide" technology supports collagen quality, helping preserve firmness and moisture retention, while optimized retinoid–ceramide–NAG combinations promote lipid replenishment with minimized irritation.

The Double Effect Brightening Serum highlights hydration's link to metabolic balance. Its NOX AGE complex mitigates oxidative stress and glycation while supporting ATP levels, SOD activity, autophagy, and melatonin synthesis—pathways essential for maintaining optimal water balance and cellular recovery.

Proya's Original Repair Cream addresses hydration through barrier restoration. Using lactobacillus/soy ferment filtrate, bacillus ferment, and a multi ceramide complex, it boosts key proteins including filaggrin, loricrin, and TGM1, reduces inflammation, and improves dermal epidermal junction structure—yielding more resilient, longer lasting moisturization.

Together, these systems reflect Proya's integrated vision of hydration as a dynamic, biologically interconnected process that drives comprehensive skin health.

Biography

Dr. Lieve Declercq is Chief Scientific Advisor to PROYA Cosmetics and Vice President of the PROYA Europe Innovation Center in Paris, where she drives the integration of European scientific excellence and innovation into PROYA's product development strategy. Before joining PROYA, she spent over two decades at The Estée Lauder Companies, ultimately serving as Vice President of Basic Science Research and Advanced Technologies for Europe and Asia. With a strong scientific foundation and deep industry insight, she supports PROYA in elevating product performance and advancing science driven skincare for China's highly sophisticated beauty market.

Company description

Proya Cosmetics, founded in 2003 and headquartered in Hangzhou, is one of China's leading and fastest growing beauty companies. The group has demonstrated strong financial momentum, recently surpassing the symbolic 10 billion RMB (≈ 1.2 billion EUR) mark in annual revenue. The company maintains a broad portfolio of skincare and beauty brands and consistently invests in scientific research and innovation to strengthen its market leadership. In 2024, Proya became the first Chinese beauty group to establish a European Innovation Center in Paris. Located in La Défense, the center is designed to accelerate international R&D, integrate European scientific know how, and reinforce Proya's global influence. Its mission includes technology scouting, collaboration with European partners, and supporting brand development for global markets.
Together, Proya Cosmetics and Proya Europe bridge Chinese market leadership with European excellence to drive next generation, science based skincare innovation.

Water on the Skin: Intrinsic Water Retention Capacity a new Parameter based on Mathematical Modeling of TEWL and Skin hydration methods

Pedro Contreiras | PhD Trials

Abstract

Skin functionality relies on a highly regulated cutaneous water balance that supports barrier integrity and biomechanical properties. Stratum corneum (SC) hydration is mainly ruled by the water gradient between the surface and deeper layers, and is transiently affected by environmental conditions (temperature, humidity) and influenced by topical products such as humectants and emollients. Because instantaneous measurements provide limited insight into these dynamics, an intrinsic descriptor of the skin's ability to maintain optimal hydration is needed.

PhD Trials developed a new parameter, Intrinsic Water Retention Capacity (IWRC), to detect the system ability to conserve and replenish water across the SC and viable epidermis. This parameter, obtained by disposition–decomposition analysis (DDA) is calculated by simultaneously modelling transepidermal water loss (TEWL) and epidermal "capacitance." TEWL captures net water evaporation at the surface, while capacitance primarily reflects the behavior of water molecules transiently retained in superficial epidermal structures. Using the plastic occlusion stress test (POST) to induce controlled over-hydration, TEWL and capacitance time profiles are analyzed to separate superficial disposition effects from deeper-layer hydration equilibrium resulting in the new Intrinsic Water Retention Capacity parameter. We also show how different products can affect the parameter contributing to increase the Skin Water Holding Capacity.

Biography

PhD Trials® CEO, General and Scientific Director, Physiologist with a degree in Pharmaceutical Sciences and a PhD and master's degrees in advanced Pharmacokinetics, with interests in mathematical modeling of transcutaneous variables such as Trans Epidermal Water Loss, Transcutaneous Oxygen and Skin Blood Flow.

CEO and Scientific Director of PhD Trials®, a well-known *in vivo* CRO for testing cosmetic products and ingredients for the cosmetic industry. Dr. Pinto's research work was focused on the development of new protocols to study the skin, particularly those focused on the efficacy of cosmetic products.

Company description

PhD Trials® is an leading European in vivo CRO (International Contract Research Organization), engaged into the clinical assessment of safety and efficacy of products for topical application (cosmetic, raw materials and food products). We are a multidisciplinary team of skin specialists, boasting more than 25 years of experience in the scientific support to the cosmetic industry.

PhD Trials has a database of more than 20000 subjects, and has all the state of the art systems including a Confocal Microscopy system, multiple 3D scanners including an AEVA-HE full system, and a Raman Spectroscopy unit for evaluation skin in vivo in a 2000 sqm facilities.

3D LC-OCT Skin Biomarkers for Evaluating Skin Hydration and Barrier Function

Margot Vasseur | Damae Medical

Abstract

LC-OCT (Line-field Confocal Optical Coherence Tomography) enables non-invasive, real-time 3D imaging of the skin at cellular resolution. This cutting-edge technology provides detailed visualization of key skin structures, including the stratum corneum, epidermis, dermo-epidermal junction, dermal fibers, keratinocyte nuclei, and melanin. By capturing high-resolution images, LC-OCT offers unique insights into skin biology and mechanisms.

In the context of dermo-cosmetic research, LC-OCT enables precise evaluation of the effects of topical formulations on skin hydration and barrier integrity. When combined with advanced AI algorithms, it provides robust, quantitative, and reproducible metrics of skin microarchitecture and composition in vivo over time. These parameters serve as objective and reliable endpoints for product development and clinical studies, making LC-OCT a powerful tool for understanding skin physiology and evaluating the efficacy of hydration-focused cosmetic treatments.

Biography

Margot is an Application Engineer at DAMAE Medical and has been actively involved in the development of the dermo-cosmetic division for the past two years. With a background in biotechnology engineering, she has developed strong expertise in LC-OCT image interpretation and in the extraction and analysis of quantitative skin biomarkers. Her work focuses on translating high-resolution 3D imaging data into meaningful insights to assess skin structure, function, and product efficacy for cosmetic and pharmaceutical research.

Company description

DAMAE MEDICAL

Damae Medical develops an in vivo imaging device and AI solutions for advanced 3D visualization and quantification of the skin at the microscopic scale, supporting dermo-cosmetic and pharmaceutical research. Since 2014, its deepLive™ technology integrates LC-OCT (Line-field Confocal Optical Coherence Tomography), which combines the principles of OCT (Optical Coherence Tomography) and RCM (Reflectance Confocal Microscopy).

This innovation enables a true non-invasive optical biopsy of the skin: real-time 3D imaging that reveals cutaneous structures with cellular precision — including the stratum corneum, epidermis, dermo-epidermal junction, dermal fibers, keratinocyte nuclei, and melanin.

Combined with advanced AI algorithms, deepLive™ provides microscopic-scale quantification of the skin, enabling accurate characterization and reliable evaluation of product efficacy. Certified CE Class IIa, FDA-approved, and deployed in more than 14 countries, deepLive™ is trusted by leading cosmetic and pharmaceutical companies worldwide.

Monitoring the microbiome to enhance skin hydration

Stéphanie Badel-Berchoux | Byome Labs

Abstract

Skin hydration assessment traditionally relies on well-established biophysical measurements. However, investigating the role of the cutaneous microbiome in this context represents an emerging research area, which may contribute in the future to a more comprehensive evaluation of skin hydration and barrier function.

The skin microbiome closely interacts with its surrounding environment, particularly with the epidermal barrier and its lipid components. Scientific data suggest interactions between microbial communities, barrier organization, and key epidermal lipids such as ceramides, which play an important role in limiting transepidermal water loss and maintaining hydration. Although the underlying mechanisms remain to be fully elucidated, these interactions may indirectly influence skin hydration status.

In parallel, moisturizing products are not neutral toward the skin microbiome. Data generated from in vitro tests conducted in our microbiology laboratory indicate that certain hydrating formulations can modulate microbial populations, highlighting the importance of considering microbiome-related parameters during product development and evaluation.

In this context, BYOME DERMA is introduced as an innovative tool designed to characterize and monitor cutaneous microbiome profiles. This approach enables the establishment of microbial profiles associated with different skin conditions and may, in the future, support the identification of microbiome patterns linked to specific hydration states, including dry skin contexts.

Biography

She graduated as a Bioengineering Engineer from Polytech (2007) and earned a PhD in Microbiology and Biochemistry(2010).
She then worked at BioFilm Control as Laboratory Director, primarily leading development projects related to antibiotic resistance.
In 2017, Stéphanie structured the microbiology service activity while also participating in client relations and scientific communication. These years working with health and cosmetic industry players allowed her to specialize in the study of skin, oral, and vaginal microbiota, and more generally in the relationship between microbiota composition and biofilms.
As Laboratory Director at BYOME Labs, she oversees the Clermont-Ferrand unit and is responsible for managing and executing client projects.

Company description

BYOME LABS is a French deep-tech startup specializing in in vitro microbiome analysis applied to cosmetics, dermocosmetics, and pharmaceuticals. We work with finished-product brands, ingredient manufacturers, and retailers to help them understand and improve the impact of their products on the microbiome. We collaborate closely with R&D, marketing, and regulatory teams, and our expertise covers the skin, scalp, oral, and vaginal microbiomes.We are a team of 17 passionate experts in microbiology, immunology, artificial intelligence, and marketing. Our work has been recognized with the Cosmetic 360 Awards 2025 and the Trophée des Entreprises 2025, and we are officially recognized asa deep-tech company by BPI France.

Getting rid of the “Black Box”: Corneometer® to use at the volunteer’s home – Project CliniScale

Marc Bruzzone for Diana Khazaka | Courage & Khazaka

Abstract

Introduction: Non-invasive measurement of the stratum corneum hydration (SCH) with capacitance-based instrumentation is established in dermatological and cosmetic studies. We wanted to test the reliability of non-invasive self-measurements for SCH performed under real-life conditions by volunteers with a Bluetooth-based (wireless) probe Corneometer® (CM 825i) transmitting the data via a smartphone application to a central server. Probes and smartphones communicated using Bluetooth Low Energy. Data from the smartphone were securely transferred to a remote server in a different country with TLS encryption using HTTPS protocols.CM 825i values were correlated with the established CM 825under laboratory conditions. The primary endpoint was the correlation of the two probes. Secondary endpoints were the coefficient of variation (CV) and delta values (before and aftertreatment). Methods: Eighteen healthy volunteers (f: 8; m: 10)participated in the prospective observational study. The real world home use of the wireless CM 825i was performed before and after treatments with base cream DAC for 7 days.
Results: Both instruments showed a significant and relevant correlation($p < 0.0001$; Spearman coefficient of $r = 0.8647$). CM 825i and CM 825 differentiate significantly between normal and high SCH. Both devices showed comparable robustness in repeated measurements with a CV between 5.6% and 9.2%.
Conclusion: We could show a significant correlation between both devices and a comparable differentiation between low and high SCH and comparable CVs. The real-life use demonstrated adequate acquiring and transmitting of in vivo data to a smartphone and subsequently transmitting to the secure server with low numbers of missed transmissions (<0.2%) and missed measurements(<5%).

Biography

Diana Khazaka, born March 15 1968, has been working for more than 30 years in the field of scientific bioengineering instrumentation for skin testing with customers all over the world. She is CEO of Courage + Khazaka, the world leading manufacturer of skin testing systems.

Company description

Often copied but never matched – Founded in 1986, by Mr. Wilfried Courage and Prof. h.c. Gabriel Khazaka, Courage + Khazaka electronic GmbH introduced the first scientific measurement tools to objectively quantify parameters on the skin. Until today, we have always been the world market leader in this field. Nobody else offers such a complete range of measurement parameters. Even after more than 30 years, we are still a family-owned company and are dedicated to constantly developing new parameters for skin & hair. Every year, C+K products are delivered in over 70 countries around the globe. Our brands such as Corneometer® to measure skin hydration, Cutometer® to assess elasticity, Mexameter® for the measurement of melanin/erythema, and many more are standard devices in claim support & efficacy testing as well as in clinical research. Even in space skin physiological tests had been performed with the C+K devices on board of the International Space Station (ISS). Based on our know-how we have developed special measuring equipment for skin testing to promote cosmetic products or treatments at the point of sale (retail area), in aesthetic salons or institutes. The devices vary from small handheld units and flexible battery operated devices to sophisticated combined models with easy to use software to determine theneedsof theskinandto recommend products. Find more information: www.courage-khazaka.de

From Measurement to Visualization: Innovative Tools for Skin Hydration Assessments

Natascha Hennighausen | SGS proderm

Abstract

Skin hydration is a key parameter in cosmetic science. It is directly influenced by product performance and affects skin appearance, overall skin health, and consumer satisfaction. Although traditional methods such as corneometry offer basic quantitative results that are useful, they lack the intuitive and visual accessibility required to meet the growing demand for more insightful information. Consumers increasingly expect to be able to see and understand the effect of cosmetic products on their skin, which is driving the development of advanced visualisation techniques such as facial hydration mapping and hydration profiles.

Tools such as the Epsilon device enhance data interpretation further by translating measurements into visual formats. Confocal Raman spectroscopy has emerged as a powerful, non-invasive technique for analysing water distribution across different skin layers at high resolution. This technology supports the creation of detailed, multidimensional hydration maps that resonate with researchers and end users as well. This short talk highlights the comparative advantages of Raman spectroscopy over conventional methods and explores the visualization techniques that are reshaping the landscape of skin hydration assessments.

Biography

Natascha holds a Master's degree in Molecular Biology and Biotechnology and joined SGS proderm in 2014. After gaining extensive experience in study conduct and project management, she advanced to lead the Project Management and Report Writing teams.

In her current role as Scientific Manager, Natascha leverages her expertise in complex study designs, innovative methods, and emerging parameters to advise both internal teams and external clients. Additionally, she is driving the continued development and advancement of in vivo confocal Raman spectroscopy.

Company description

SGS proderm is a full service provider for dermatology clinical studies. With a clear focus on innovative testing solutions, SGS proderm investigates the tolerability as well as the efficacy of cosmetics, consumer products, medical devices and medicinal products.

The institute is the European Center of Excellence for Dermatology within the comprehensive testing network of SGS. SGS is the global leader for testing, inspection and certification services.

Real scientific value of popular non-invasive hydratation devices used in clinical studies

Tim Houser | Cortex

Abstract

Hydration remains a cornerstone parameter in dermatological research and cosmetic evaluation, with the tools available to quantify it continuing to evolve. At Cosmetotest 2026 in Lyon, Tim Houser will present new insights into the measurement of skin hydration, building on his 2025 contribution on skin color assessment. This year's focus will be an exploration into the real scientific value of popular non-invasive devices widely applied in clinical and cosmetic studies. The presentation will highlight methodological differences, sensitivity, and reproducibility of the instruments, with particular attention to their performance in controlled study environments. By examining case data and practical applications, Houser will discuss how these devices inform product testing and innovation in cosmetic science. The session aims to provide researchers and industry professionals with a critical perspective on hydration measurement technologies, encouraging dialogue on standardization and best practices.

Biography

Tim Houser is President and Scientific Director of Dermico, as well as Chief Scientific Officer of KGL Skin Study Center. With extensive expertise in non-invasive skin measurement technologies, Houser is a leader in advancing methods for evaluating skin color, hydration, and barrier function in both clinical and cosmetic contexts.

Known for bridging technical rigor with practical application, he has presented widely on dermatological instrumentation, including his 2025 Cosmetotest talk on skin color. In 2026, he will share new insights on hydration measurement technologies.

Company description

Cortex Technology has spent more than 40 years advancing the science of skin measurement, supporting researchers who require high precision, reproducible data for product development and clinical evaluation. Our instruments are engineered to quantify key biophysical parameters such as hydration dynamics, elasticity, TEWL, color, collagen, skin thickness and others with exceptional sensitivity and stability. We design every device with scientific rigor in mind, robust calibration, consistent probe to skin interaction, and data outputs optimized for statistical analysis.

Whether used in controlled laboratory studies or large scale clinical trials, our solutions help researchers capture subtle changes in skin physiology and validate claims with confidence. At Cosmetotest 2026, we will highlight our newest developments in non invasive skin assessment technologies, enabling deeper insight and supporting the industry's demand for evidence based innovation. Cortex Technology remains committed to empowering scientists with reliable tools that advance the understanding of skin biology.

Roundtable of experts:
Evaluating the "golden claim" of hydration: the new scientific challenges of quantifying skin hydration

Georgios Stamatas | SGS

Tim Houser | Dermico - Cortex

Aline Rigal-Dachaud | Clarins

Raoul Vyumvuhore | Proya Cosmetics

Anne Charpentier | Skinobs

Abstract

The evaluation of skin hydration, a cornerstone of dermocosmetic efficacy, is undergoing a significant technological paradigm shift. Historically, corneometry and evaporimetry (Transepidermal Water Loss - TEWL) have served as the gold standards, measuring the electrical capacitance of the stratum corneum and barrier integrity. While highly reproducible, these classical biophysical methods provide a relatively static assessment limited to superficial layers.

In 2026, the integration of advanced molecular imaging and artificial intelligence is redefining diagnostic precision. In vivo Raman spectroscopy now enables the non-invasive quantification of water content at varying epidermal depths, providing high-resolution mapping of hydration gradients. Furthermore, Optical Coherence Tomography (OCT), LC-OCT, microbiome analysis and confocal microscopy allow for the real-time visualization of structural tissue alterations following product application.

The digital frontier introduces continuous monitoring via wearable biosensors. These connected devices track hydration dynamics under real-world conditions, generating longitudinal datasets that utilize AI for predictive efficacy modeling. This synergy between traditional metrology and digital innovation facilitates a transition toward hyper-personalized skincare, evolving from discrete physical measurements to a comprehensive, dynamic analysis of skin barrier health and homeostatic resilience.

The Skin–Brain Axis: Neurocosmetic Innovations for Aesthetic and Emotional Well-Being

Dr Haykal | Dermatologist

Abstract

The skin–brain axis is redefining the frontiers of cosmetic and therapeutic dermatology. This presentation explores the emerging discipline of neurocosmetics, an integrative approach that targets cutaneous nerves, neuromediators, and sensory receptors to modulate both skin function and emotional states.

As a neuro-immuno-endocrine organ, the skin produces and responds to neurotransmitters such as serotonin, dopamine, and β-endorphins, shaping inflammation, stress responses, and visible aging. New evidence also highlights the role of the skin microbiota in the gut–skin–brain axis, with microbial postbiotics influencing neuroinflammation and mood.

On the technological front, AI-driven emotional analytics and wearable biosensors are enabling personalized, neuro-responsive skincare routines based on stress levels, circadian rhythms, and micro-expressions. Ethical aspects, including mood-modulating actives and emotion-data privacy, are also addressed. Together, these advances position neurocosmetics as a transformative paradigm where skincare enhances not only appearance but also psychological well-being.

Biography

Dr. Haykal graduated from the Faculty of Medicine Pierre and Marie Curie (University of Paris VI), where she earned her Doctorate in Medicine with a thesis awarded for its scientific excellence (Pierre Ageorges Prize, 2015). Passionate about innovation and healthcare management, she pursued further studies in medical leadership at HEC Business School, Harvard University, and Cambridge Judge Business School.

Keen to integrate new technologies into aesthetic practice, she also earned diplomas in Artificial Intelligence applied to healthcare and management at Harvard University and MIT Sloan School of Management. Recently, she completed a diploma in pharmacogenomics at Mayo Clinic, further enhancing her approach to personalized medicine and targeted therapies.

Dr. Haykal is a prolific scientist with numerous international publications in prestigious journals. She is an author and reviewer for several international dermatological journals, ensuring the dissemination of best practices and scientific advances in aesthetic and laser medicine. She also serves as an editor for the Journal of Cosmetic Dermatology and Frontiers Journal.

Her ORCID: https://orcid.org/0000-0001-7528-5088

Using AFM nanoscale biomarkers to monitor skin stress responses during exam periods

Arthur Dervillez | Loretta

Abstract

Psychological stress can transiently perturb epidermal homeostasis through neuro-endocrine and inflammatory pathways, impacting hydration, desquamation, and barrier integrity. Here, we used an academic final-exam period as a real-life model of mild stress to track stress-responsive changes in corneocyte nanoscale morphology and to assess whether topical formulations can mitigate these effects. In a multi-week study with healthy student volunteers, corneocyte samples were collected longitudinally from treated sites (three cosmetic formulations) and matched untreated control areas. Atomic Force Microscopy (AFM) quantified nanoscale topography and extracted barrier-relevant descriptors.

During the exam period, untreated control sites showed a clear increase in the density of Circular Nano Objects (CNOs)—small nanoscale depressions previously associated with low Natural Moisturizing Factor (NMF) and reduced barrier integrity—along with higher surface heterogeneity. These patterns are consistent with stress-driven alterations in corneocyte maturation and barrier cohesion. In contrast, treated areas exhibited reduced CNO density and improved roughness/homogeneity parameters, suggesting a partial attenuation of stress-associated barrier impairment.

Biography

Arthur Dervillez is the founder and CEO of Loretta, a role he has held for the past year while leading several R&D projects within the company. He has extensive experience in detecting and analyzing biological properties for innovative cosmetic applications. With six years of expertise in biophysical methods and team management, he brings both scientific depth and strategic vision to the development of next-generation cosmetic analysis solutions.

Company description

Loretta is a specialized skin analysis laboratory dedicated to supporting cosmetic brands in the scientific testing and validation of their products. The company partners with cosmetic laboratories worldwide to deliver precise, actionable insights into skin performance and product efficacy. Using high-speed Atomic Force Microscopy (AFM), its platform captures real-time, high-resolution data from the surface of skin cells, enabling robust, non-invasive characterization of key biophysical parameters. Analyses focus on critical indicators such as hydration levels, barrier function integrity, and anti-aging factors, supporting evidence-based formulation and quantifiable results. By bridging fundamental biophysics with applied cosmetology, Loretta helps transform complex skin data into clear scientific value for R&D teams and clinicians.

A Comprehensive Framework for Stress and Sleep Assessment in Clinical Research

Marta Ferreira | Inovapotek

Abstract

Understanding the interplay between psychological stress and sleep quality is essential for chaterizing well-being-related pathways within the broader skin-brain axis. Developing robust clinical study designs to evaluate these interactions is essential for supporting innovation in well-being-oriented products. This work presents a comprehensive methodological framework for assessing stress and sleep that combines objective biomarkers, validated psychometric tools, and quality-of-life indicators.

A controlled clinical study was conducted on adults with self-reported sleep quality. Over 28 days, participants followed a standardized nightly protocol while undergoing salivary cortisol profilling at four daily time points, enabling characterization of endocrine rhythms associated with stress. In parallel, the Pittsburgh Sleep Quality Index (PSQI) and quality-of-life questionaires captured subjective perceptions related to restfulness, daily functioning, and overall well-being.

Cortisol remained consistent throughout the study, demonstrating the robustness and reliability of home-based biomarker collection.

Subject-reported outcomes revealed significant improvements across multiple sleep components such as sleep quality, sleep duration, daytime functioning, and ultimately their perceived well-being. Together, these findings highlight the value of integrated biological and clinical readouts in clinical testing, reinforcing inovapotek ability to design rigorous and comprehensive studies.

Biography

Marta Ferreira is CEO and Technical Director of Inovapotek, a CRO proving R&D, testing and consulting services to the cosmetics and pharmaceutical industry, and President of the Portuguese Society of Cosmetic Science. Holds a master's degree in Pharmaceutical Sciences and a master's degree in Pharmaceutical Technology and has now more than 15 years of experience in cosmetics product development, testing and regulatory affairs.

Company description

inovapotek
PHARMACEUTICAL RESEARCH AND DEVELOPMENT

Inovapotek was funded in 2008, inspired by our CEO, Marta Ferreira's mission to bring science to the service of society. Since then, without ever losing sight of our purpose, we have contributed to the developement of an innovative and scientifically validated dermocosmetic industry.

Today, Inovapotek is a Contract Research Organization (CRO) offering a wide range of tailored research and testing services in dermatologyn supporting industries such as Personal Care Pharmaceutical, Medical Devices and Food Suplements. We support product development from A to Z. From the earliest formulation stages to the evaluation of safety, efficacy and performance, our scientifically trained teams work closely with our clients to turns ideas into innovative, safe and effective products.

Investing in safety and efficacy testing is more than a regulatory requirement - it reflects our commitment to helping brands build trust, ensure product quality and promote consumer well-being.

A complete and multi-dimensional method for the assessment of cosmetics effects on well-being

Mathilde de Torsiac | Sisley

Abstract

OBJECTIVE It is well known that skincare products can promote well-being. However, this impact is difficult to determine objectively, as well-being is a highly subjective concept but also a complex one encompassing various dimensions. This project involved studies designed to examine, how the use of three face creams (named serenity, energy and joy) is associated with internal states of well-being that align with the specific objectives of each cream.

METHOD These studies were carried out in a specific laboratory (well-controlled environment) with a panel of 45 participants. The well-being dimensions were assessed through a combination of physiological measures, non-conscious psychological measures and behavioral measures. Moreover, each study was conducted both after a single use and after a twice-daily use for four weeks.

RESULTS Data analysis, across the various measures, made it possible to rigorously examine the well-being effects associated with the use of each cream: reducing stress and promoting calm ('serenity' cream), boosting vitality and delivering an influx of positive energy ('energy' cream), and fostering joy and a sense of happiness ('joy' cream). Furthermore, these results were maintained after four weeks of use, ruling out concerns about a potential "habituation effect".

CONCLUSION Drawing on state-of-the-art scientific methods and expertise, this project shows that it is possible to objectively and precisely determine the extent to which product use is associated with positive effects on well-being.

Biography

Mathilde de Torsiac is working at Sisley as Clinical Evaluation Project Manager since 2022, preceded by an experience in an independent testing center.

She manages the in-vivo evaluation of the effectiveness of brand's products, both in clinical studies, emotional and consumer studies.

Company description

For over fifty years, Sisley has been developing beauty products with innovative formulas that combine safety, effectiveness and sensoriality.
The know-how of the Research Laboratories is based on a global scientific approach to beauty. This approach combines knowledge of the skin, its mechanisms and its environment, with unique expertise in phytocosmetology.

In 2024 Sisley launched a brand-new entity, NEURAE. Grounded in neuroscience, NEUR|AÉ explores the connection between the skin and the brain, aiming to combine skin efficacy with emotional benefits.

Does your perfume or cosmetic feel good? Now you can tell with computer-connected artificial neural-skin to evaluate cosmetics in real-time testing

Clément Milet | CTI Biotech

Abstract

How we feel as we are constantly bombarded from the outside can be changed when we use cosmetics or perfumes. But everyone has different sensations. On top of that, how a cosmetic or fragrance can feel or smell depends on what your skin has already been exposed to.

The short-term exposome and long-term exposome are both important to evaluate to really understand how humans from diverse backgrounds, working outside or primarily inside will react to their cosmetic product. By combining IPS-derived neural cells or neural cell lines into a 3D epidermis-dermis model it is possible to not only have short-term readout through electrical variation, but also follow over time the intercellular molecular communication and biomechanical effects of cosmetic applications.

We are developing cosmetic tests for sensation for different complexities and costs to be able to better help new cosmetic innovations as well as the longer existing brands. By using cell lines, as well as primary human tissues, neural cells were able to penetrate throughout the skin model created with 3D bioprinting and maturation of the neural cells in vitro. Although electrical activity can be measured, the structure of the skin and intra- and inter- cellular communication is also key in evaluation of response.

Biography

Clément Milet joined CTIBIOTECH in 2017 to lead the 3D bioprinting program, strengthening its capabilities in advanced 3D cell and tissue culture. With a background in cancer research technologies, including RNA screening and translational oncology, he developed strong expertise in three-dimensional tumor models. At CTIBIOTECH, he applied this knowledge to patient-derived cancer and skin tissues, creating 3D-bioprinted microtumor and skin models. He also contributed to advanced skin models for cosmetic testing and safety assessment. Since 2020, he has served as Laboratory and Quality Director, overseeing research programs and expanding production capacity through industrial-scale 3D bioprinting.

Company description

CTIBIOTECH™ is a biotechnology company specializing in advanced 3D bioprinting and human tissue engineering. The company develops physiologically relevant, patient-derived 3D tissue models to improve preclinical research, drug development, and safety assessment. Its proprietary bioprinting technologies enable the production of complex cancer and skin models that closely mimic native human biology, providing more predictive and ethical alternatives to traditional in vitro and animal testing methods.
CTIBIOTECH™ serves the pharmaceutical, biotechnology, and cosmetics industries by offering customized tissue models for efficacy testing, toxicity evaluation, and translational research. The company combines expertise in cell culture, biomaterials, and biofabrication to deliver scalable, reproducible solutions adapted to industrial needs.
By bridging the gap between laboratory innovation and industrial application, CTIBIOTECH™ aims to accelerate therapeutic development while supporting safer cosmetic testing and advancing personalized medicine approaches.

Cosmetic After-Feel Modulates Brain Activity in Sensory and Reward Networks: An fMRI Study

Eloïse Appelmans Gerardin | Brain Impact Neuroscience

Abstract

Introduction : The affective qualities of cosmetic textures play a central role in the overall user experience, yet their neural mechanisms remain largely unexplored. This study examined how the “after-feel” of cosmetic creams influences brain responses, investigating both sensory and emotional processing. We focused on how subtle variations in formulation, such as differences in emulsifier composition, can modulate the perception of touch and shape its affective dimension, providing insight into the neural basis of tactile pleasure during cosmetic use.

Methods : Twenty healthy women (18–45 years) participated in an fMRI experiment under one of three conditions: no cream (control), Cream A, or Cream B, differing in emulsifier composition. A fixed amount of cream was applied to predefined areas of the left hand. After absorption, participants performed a standardized self-stroking task at a controlled velocity. Functional images were preprocessed using a standardized pipeline and analyzed with a general linear model to identify condition-specific brain activations.

Results : No-cream and Cream B conditions mainly activated primary and secondary somatosensory cortices, particularly in the postcentral gyri. Cream A additionally activated the orbitofrontal cortex, nucleus accumbens, amygdala, and putamen. Compared to Cream B, Cream A also elicited activations in prefrontal, temporal, and cerebellar regions, with smaller clusters in the supramarginal gyrus, precentral gyrus, and posterior insula.

Discussion : Finally, tactile stimulation with Cream A enhanced somatosensory responses and recruited regions associated with affective valuation and reward processing, indicating that the stimulus was experienced as more pleasant. Beyond this emotional dimension, prefrontal and associative areas were also engaged, suggesting higher-order cognitive appraisal. Together, these results show that subtle differences in the perceptual properties of the stimuli drive a hierarchical integration of touch, from sensory encoding to emotional relevance and cognitive evaluation.

Biography

Born in 1992 in Melun (France), Eloïse Gerardin worked from 2014 as a clinician in neurology and intensive care in a hospital setting. Fascinated by brain recovery mechanisms, she transitioned to research and pursued a Master’s in Neuroscience at Université Paris-Est Créteil in collaboration with INSERM and the Institut de Psychiatrie et Neurosciences de Paris (IPNP). In 2019, she began a PhD at UCLouvain under Prof. Yves Vandermeeren, studying post-stroke motor recovery using advanced neuroimaging. Since April 2024, she has been Data Science Manager at Brain Impact Neuroscience, leading research at the intersection of neuroscience, sensory innovation, and data science.

Company description

BRAIN IMPACT
CONSUMER NEUROSCIENCE

Founded in 2008 by Arnaud Pêtre, Brain Impact Neuroscience is a pioneer in exploring unconscious decision-making processes through functional MRI. The Belgian scale-up uses brain imaging to investigate decision-making mechanisms and the emotional responses triggered by products. What sets Brain Impact Neuroscience apart is its scientific rigor and its ability to analyze data from both fMRI scans and partner client datasets using the power of Artificial Intelligence. This technological integration allows for in-depth neuroscientific analysis, delivering reliable scientific results.

The Gut-Skin-Brain Axis: A Psychophysiological Approach in Cosmetic

Edith Filaire | Groupe ICARE

Abstract

The complexity of the interconnections of the gut-skin-brain axis has emerged as a major field of research. This cross-communication is regulated by neuronal, endocrine, and immune pathways.

In this presentation, we will explore the hypothesis that disruptions linked to psychosocial stress and dysbiosis directly affect skin homeostasis. We will illustrate how these systemic dysregulations manifest at the cutaneous level, leading to impaired barrier function and increased sensitivity to inflammatory markers.

We will detail some possible non-invasive in vivo assessment methodologies with a psychophysiological approach.

In conclusion, our talk will highlight the potential of cosmetic products to act as peripheral modulators of the gut-skin-brain axis, opening the way to a paradigm shift towards holistic and systemic cosmetics, beyond traditional anti-aging.

Biography

Edith Filaire is a French researcher whose career spans several major universities, including Lyon 1, Clermont-Ferrand, and Orléans-Paris Saclay. Professor and co-director of a research laboratory, she has conducted research on the psychophysiological links between nutrition and health. After spending four years defining the scientific strategy of the GREENTECH GROUP in the fields of skin biology, neuroendocrinology, and microbiota, she now holds the position of Director of Research and Innovation at the ICARE GROUP.

She works on alternative methods to animal testing in the field of medical devices and pharmaceuticals by developing skin-on-chip models to assess skin sensitization. She is the author of more than 150 scientific articles and eight book chapters.

Company description

Established in 1995 and headquartered in Saint-Beauzire, France, Groupe Icare is a prominent European leader in ensuring the safety and regulatory compliance of healthcare products. As a strategic partner to the pharmaceutical, cosmetic, and medical device industries, the Group operates globally with over 220 experts across France, Switzerland, and Brazil. Its comprehensive service portfolio integrates advanced microbiological analysis, biocompatibility testing, and the qualification of controlled environments. Furthermore, Groupe Icare distinguishes itself through specialized consulting, accredited training, and a robust commitment to Research and Innovation, particularly in developing sophisticated cellular models. Adhering to the most stringent international standards, the Group provides the technical excellence required to safeguard public health and navigate complex global market requirements.

I like, I like less, I like more or I don't like anymore…" Predicting consumer behavior from the affective trace of experience: Development of a specific methodology to assess the coherence of the emotional impact of cosmetic experiences

Axel de Marles | Senseva

Abstract

Emotions play a central role in the formation and retention of experiential memory, linking products to affective valence and facilitating memory encoding (Krishna, 2012). Previous research has demonstrated that remembered pleasure is a stronger predictor of future behavior than immediate, in-the-moment pleasure (Kahneman, 2000). Numerous studies, particularly in food and tourism research, have highlighted the influence of emotional memory traces on consumer decision-making.

In the cosmetics industry, the ability to anticipate consumer behavior is critical for successful product launches, reformulations, and cross-cultural adaptation. The objective of this study was therefore to develop and validate a dedicated methodology for measuring the affective trace generated by cosmetic experiences.

A total of 196 female consumers evaluated 35 cosmetic products across skincare, hygiene, makeup, and fragrance categories, with each participant testing six products. Emotional responses were collected via questionnaires administered after one week of use and again after one month, following a longitudinal approach used to assess temporal coherence in experiential evaluations (Kahneman, 2000; Giuffrè, 2025).

Results revealed three distinct emotional dynamics over time: increasing, stable, and decreasing intensity. These patterns demonstrate the sensitivity of the methodology and its capacity to capture meaningful discrepancies between immediate emotional impact and affective memory. Future research should examine the moderating effects of consumer profiles, cultural context, and product category.

Biography

Axel de Marles is the founder and CEO of SENSEVA. He is an agronomical engineer graduated from AgroParisTech and holds a Master's degree in Neurosciences and Analysis from Université Claude Bernard Lyon 1. He previously collaborated with Professor D. Sander (University of Geneva) on advanced programs dedicated to the assessment of emotional impact, including attentional capture, physiological responses, and subjective affective experience. For over ten years, he has supported cosmetics companies in consumer research, product testing, and the development of robust methodologies to evaluate emotional impact and guide innovation and market decisions.

Company description

Senseva
Une émotion d'avance

SENSEVA is an independent consumer research and consulting firm specialized in the assessment of emotional and experiential consumer's responses, with a strong focus on the cosmetics industry. For more than a decade, SENSEVA has supported cosmetic brands at every stage of innovation, from early concept exploration to product optimization and market validation. Combining consumer science, sensory analysis, and affective neuroscience, SENSEVA develops robust methodologies to measure emotional impact, experiential coherence, and memorability of cosmetic products. The institute conducts qualitative and quantitative consumer studies, in-use tests, and advanced product evaluations across skincare, makeup, fragrance, and hygiene categories. SENSEVA collaborates with professional organizations such as FEBEA and COSMEBIO, as well as with leading international cosmetic companies, start-ups, and SMEs. It works closely with R&D, marketing, and innovation teams to translate emotional insights into actionable recommendations, helping brands anticipate consumer behavior, optimize product performance, and strengthen differentiation in highly competitive and international markets.

Aspalathin-Rich Extract: A Peripheral Modulator of the Skin-Brain-Hormonal Axis for Holistic Anti-Aging Skincare in men

Magalie Cabannes | Greentech

Abstract

The bidirectional communication between the skin and brain has emerged as a promising scientific paradigm in the cosmetic industry. Indeed, the skin is not just a passive barrier; it contains a variety of neurotransmitter receptors and neuromediators. Moreover, it has been shown that psychological stress increases glucocorticoids (GCs) by activating the hypothalamic-pituitary-adrenal axis. Negative effects of GCs on the skin barrier is well-established (Choe et al., 2018), with stress and the gradual decline of hormones being key factors in skin aging in men.

Objectives: With an innovative psychobiological approach including in vitro and in vivo tests, the aim of this study was to evaluate the effect of an Aspalathin-rich Aspalathus extract (AE). Thanks to this systemic approach, evaluations were realized on a) the expression of aging and androgen-related genes in normal human epidermal keratinocytes b) skin neuromediator pathways linked to soothing and well-being using a co-culture model of keratinocytes and sensory neurons, and c) effects on mood and stress using validated psychological tests in men.

Results: AE targets aging-related genes by enhancing the endogenous intracellular levels of antioxidant capacity (SIRT3, HMOX1) and stimulating skin regeneration factors (TFAM, GDF11, SIRT4). AE also significantly stimulated the expression of gene encoding the androgen receptor (AR). Simultaneously, the extract increased the expression of steroid sulfatase (STS), an essential enzyme that regulates the conversion of the inactive precursor dehydroepiandrosterone sulfate (DHEA-S) to the active form DHEA and its downstream androgens. These mechanisms strongly suggest that the active ingredient influences the bioavailability of androgens within the skin. The results obtained on cortisol metabolism are also highly relevant, showing a regulatory effect that limits cortisol synthesis. Furthermore, the subjective perception of well-being evaluated through the Profiles of Mood States (POMS) and the STAI scales significantly improved in vivo.

Conclusion: The systemic approach used through specific in vitro and in vivo tests has shown AE acts as an agonist or antagonist on neurotransmitters (neuropeptides, neurohormones, neurotransmitters) or on the enzymes that synthesize them, offering a novel approach to anti-aging skincare aligned with the concept of the skin-brain-hormonal axis in men. Its efficacy has been confirmed by an in vivo study measuring improvements in markers of firmness, skin density, and reduced signs of stress-related fatigue in men. This study has shown the importance of the inclusion of psychobiological aspect in the study of anti-aging particularly in men.

Biography

Magalie Cabannes completed her fine chemistry Master's degree, specializing in flavors, perfums and cosmetics. She joined the Greentech company in 2013 at the head of the application laboratory. The laboratory is a technical support for the customers' formulation projects. Within the laboratory, she offers formulas and advices to serve the actives of the Greentech company. Involved in the R&D process, she takes part to the development of biological origin ingredients as much as the definition of relevant tests supporting the claims. During her career mainly in association with the Greentech R&D, she participated in five scientific publications.

Company description

Pioneer in biotechnology, the Greentech Group creates high-tech active ingredients from natural sources, including plants, marine life and microorganisms. With a focus on major markets such as cosmetics, nutrition, agronomy, the environment, health and well-being, the Greentech Group's innovations offer proven, healthy and sustainable alternatives way for future generations.
The Greentech Group now operates worldwide, creating sustainable supply chains based on respect of the environment and human relationships.

Science based claims in dermocosmetics: understanding the new challenges

Anne Charpentier | Skinobs

Abstract

To understand the testing industry evolution, it is necessary to meticulously analyze global developments that shape product innovation, regulatory compliance, and scientific communication. The evolution of cosmetic testing is driven by technological advancements, shifting consumer expectations, regulatory frameworks, and environmental considerations.
Since years, cosmetic testing has been central to product development, spanning early-stage R&D, formulation, regulatory compliance, and scientific validation of both active ingredients and finished products. Today, the beauty sector is increasingly aligned with scientific research, fostering collaborations between brands, dermatologists, and multidisciplinary experts. In vitro assays, biometrological and clinical studies ensure evidence-based product validation, reinforcing both safety and efficacy claims while enhancing consumer confidence and brand credibility.
Drawing insights from international conferences, CRO visits, and expert discussions, we identify emerging trends and innovations, ensuring continuous advancement in testing methodologies. Through this analytical approach, we like to contribute to the dissemination of scientific excellence, bridging research and industry to support cutting-edge, reliable cosmetic evaluation.

Biography

Anne Charpentier is the founder and CEO of Skinobs, a unique and worldwide platform for both Clinical & Preclinical testing and a Cosmetics Testing News dedicated to the evaluation field for ingredients, medical device, textile, personal care and cosmetics. She has over 30-year experience as marketing developer and strategy chief in the cosmetics industry, firstly in the field of clinical testing and then in the field of active ingredients.

Company description

Finding the right testing partner shouldn't take days, it should take minutes. Skinobs is the world's first independent ecosystem dedicated to cosmetic testing. Since 2013, we help evaluation professionals connect with 500+ CRO laboratories across 98 countries, covering 1,500+ preclinical and clinical methods.A platform built for sourcing. 9,000+ industry experts from leading brands such as L'Oréal, Shiseido, Chanel and LVMH use Skinobs to identify the right lab for any claim (hydration, well-ageing, microbiome, skin barrier), filtered through 11 interconnected search criteria.Publications that keep you ahead. Our weekly newsletter Cosmetics Testing News reaches you with the latest in testing innovation. Twice a year, ZOOM magazine offers a panoramic view of emerging methods (print and digital), while FOCUS gathers panels of 6 to 8 experts for in-depth scientific analysis on a single theme.Events that connect decision-makers. Cosmetotest, our annual symposium in Lyon, brings together 230+ R&D leaders over two days of conferences and exhibitions. Through We Are Testing, laboratories access collaborative booths at major international trade shows (NYSCC, in-cosmetics, IFSCC) across four continents.Neutral, independent, trusted. No lab ownership, no bias, just the most comprehensive testing ecosystem in the industry.

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