

ZOOM #23

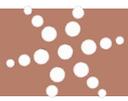
BY SKINOBS



edito

The Beauty Industry gives us the opportunity to meet around testing evaluation projects through several events during the year. **Boost Your Test** at in-cosmetics Global in Paris, **Cosmetotest Symposium** on 24-25 May 2022 are the next ones. After six years of the platforms activity, Skinobs feels to be at the right place to help every cosmetician in the search for the best methods and the right testing labs to implement preclinical and clinical studies. We are happy to give you in this 23rd ZOOM edition the latest news of our partners, discussing about the objectivation of the skin regeneration and wound healing and methods enabling skin and face imaging. Happy reading!

Anne Charpentier, CEO



We thank all our partners for their trust. They enable us to offer the Cosmetics Community an easy tool to help in the claim substantiations. We are really glad to share this success with you.

How imaging technologies influence the way to substantiate claims?

Insights into the complex processes of the physico-chemical and physiological mechanisms of the skin is the major challenges of the scientists involved in the claim substantiation. In the recent years, the manufacturers of measurement devices offer **new approaches of the skin analysis combining quantification and visualization** for quasi all the claims. Figures are the science part of the results when images give direct and understandable proof of the products performance **easily appreciated by consumers** through the new digitalized channel of purchase.

The new approach of imaging is driven by 3 independent innovation fields for both in Lab and home evaluation:

- The **technology of measure standardization** that enables reproducible conditions of evaluation,
- The **image acquisition technology** whatever the depth of the studied skin layers from the Stratum Corneum to the hypodermis,
- The **data treatment** using algorithms, I.A processes, digital twins... and enabling image reconstruction from 2 to 3D images.

The uses of these innovations have become the new standards but both material and process need an **inflexible rigor to maintain the scientific approach** of the results. System calibration, precise and adequate mastery of the devices and accuracy in each step of the routine assessment is needed to avoid irrelevant post-calibration and image correction. To face the new challenge of skin and hair evaluation, and offer more than a «nice» marketing visualization, CROs services need to offer both technology state-of-art and deep skin knowledge.

TESTIMONIALS OF THE USERS

«Thank you so much for such an amazing tool which has made life so simple.»

«It's a super powerful tool and it helps us a lot to solve doubts.»

«The platform offers a very effective way for our organisation to find the best testing method and organisation for our needs so much faster than I could do myself.»

PRECLINICAL TESTING



CLINICAL TESTING



547 Methods
45 Skins mechanisms
157 CRO's

375 Methods
184 Claims
140 CRO's

Skinobs Traffic in 2021

5 300
USERS

93
NATIONALITIES

62 000
CONSULTED PAGES

+ 50%
CONNECTIONS**

** Versus 2020

CONNECT FOR FREE SKINOBS.COM

BOOST YOUR TEST PREPARE FOR THE FUTURE OF TESTS

Testing & Lab Zone - April 2022 - Paris



Methods of the Skin Imaging by Validated Claim Support



Validated Claim Support is proud to announce that we've recently purchased a Canfield Visia CR Generation 5, and will be one of the first labs in the world to deploy it in a clinical setting. With the **newest version of 3D analysis** capable of 80 nanometer sensitivity through Canfield's Primos capture system at our fingertips, we'll be an early adapter of the new cutting-edge hardware combining high res **2D photography and 3D analysis**.

The new rotational image housing, Canon R5 45mp sensor, and the addition of lateral alignment cameras will allow us to continue providing industry leading clinical imaging/analysis.

www.validatedcs.com | <https://skinobs.com/labo.php?id=222> | Booth R111

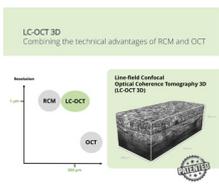
3D Collagen Network Evaluation by PhD Trials



A leading CRO company specialized in In vivo studies for the cosmetics and raw materials companies will be sponsoring the Testing & Regulation area at In Cosmetics Global to show new protocols for claim substantiation. Particularly there will be new procedures for evaluating the **anti-ageing effect using 3d collagen network** reconstructions and skin firming aspects using very high speed cameras (higher than 10000 frames per second).

www.phdtrials.com | <https://skinobs.com/labo.php?id=89> | Booth Q98

Innovative Analysis for Anti-aging Claims by Complife



The LC-OCT, Line-field Confocal Optical Coherence Tomography, technique is a medical imaging technique, combining the principles of **confocal reflectance microscopy (RCM)** and **optical coherence tomography (OCT)**. DERMATECH (France) and COMPLIFE (Italie) have this innovative tool and the specific training of technical teams for the use of DeepLive®, developed by Damae Medical, on healthy skin makes it possible

to analyze various parameters such as:

- The thickness of the layers of the skin: stratum corneum and epidermis;
- The state of the keratinocytes: differentiation, density and shape of the nuclei;
- The dermal fiber network.

www.complifegroup.com | <https://skinobs.com/labo.php?id=33> | Booth Q120

Wound Healing in-vitro and ex-vivo by CIDP



Wound healing is an essential process to ensure integrity and normal protective barrier function of the skin after injury. Wound healing includes hemostasis, inflammation, proliferation and migration of the cells at the wound edges. CIDP has developed **in-vitro and ex-vivo methodologies** to study the molecular

mechanisms of wound repair, as well as in the investigation of potential treatments for improved healing. In-vitro assays engage monitoring proliferation and migration of cells at the wound site using **imaging software and immunostaining of components of the extracellular matrix**. Ex-vivo, mechanical or thermal injuries can be performed, and proliferation markers can be evaluated. The monitoring of inflammatory response or cellular crosstalk via the levels PDGF, and pro-inflammatory cytokines can be assessed through ELISA assays.

www.cidp-cro.com | <https://skinobs.com/labo.php?id=44> | Booth S81

in-cosmetics®
global

Booth Q108

Discover BOOST YOUR TEST, organized in collaboration with in-cosmetics Global, in the heart of the Testing & Lab zone. A place where all areas of the preclinical and clinical evaluation connect to discover new methods and CROs, share claim trends and spark potential testing collaborations. It aims to guide you in your evaluation process and to advise whatever classic or innovative claims. This is to help you to identify the most appropriate methods and choose the right CRO around the world that best match your evaluation specifications.

Calibrated Photography & Analysis: a Routine Requiring Vigilance by Orion



The calibrated photography and image analysis using A.I. cover a **large field of investigation** and have become a **reference technique** that constantly evolves. Orion has been working for **25 years to develop multimodality photographic acquisition devices and robust image analysis algorithms** that are less and less manipulator-dependent. Generic acquisition table HeadScan Face&Body (2D and 3D), Dynamics III, HeadScan Light up to the Selfie HomeLab, provide a reliable response, user-dependent and adapted to routine while maintaining a **very high level of quality and reproducibility**. The analyses will soon be integrated into these systems making it possible to produce **automatically of indexes** characterizing the effect of the product. Expertise at the service of your business and your investment for a saving time and ensuring relevant results.

www.orion-techno-lab.com | <https://skinobs.com/instrumentation.php?id=89> | Booth P82

Skin Imaging with Antera 3D by Miravex



Antera 3D, Most Versatile Device on the Market.

The Antera 3D CS is a research-grade camera & software for efficacy claims substantiation for Pharma, Cosmetics, and Biotech research. Antera 3D is the only device combining real 3D imaging with high measurement precision, standardized lighting

conditions, measurement versatility, and powerful data analysis. **Skin profilometer:** measure skin topography, wrinkles, skin texture, pores, acne, scars, volume. **Multi-spectral:** measure pigmentation and vascular lesions, brown spots, hyperpigmentation, rosacea, port wine stains. **Colorimeter:** measure skin colour, skin phototype, ITA angles and colour differences.

www.miravex.com | <https://skinobs.com/instrumentation.php?id=72> | Booth S103

Skin Microbiome Friendly Evaluation by QACS

Emerging demands for skin friendly, mild and effective cosmetics resulted increased specialized testing needs. But what should be examined? Preservation Efficacy (PET) known as Challenge Testing, is a regulatory requirement and the appropriate test for preservation against microbial contamination. QACS, the Challenge Test Laboratory provides wide range of challenge test protocols, from the formal **EP and ISO 11930** to the customized **Recontamination, Mixed culture, and Vegan Challenge test**. Antimicrobial action of preservatives and long-term cosmetic exposure may trigger adverse skin effects. Thus, QACS provides studies on the examination of the Preservatives synergistic effect and **in-vitro and in-vivo studies on the Skin Microbiome** friendliness and balance.

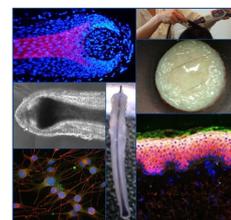
www.qacslab.com | <https://skinobs.com/labo.php?id=139> | Booth R88



Physiological Models for Hair & Skin by Monasterium

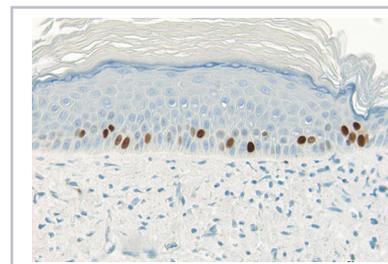
Monasterium Laboratory is one of the **leading CROs in the field of hair and skin research**. Our vision is to provide our clients and partners with the highest quality research in investigative dermatology and trichology. Working together with consultants from academia and industry, our team of scientific experts provides **unique expertise in establishing and customizing physiological models for human hair and skin research, highly relevant for cosmeceutical applications**.

www.monasteriumlab.com | <https://skinobs.com/labo.php?id=238> | Booth S101



PRECLINICAL ASSESSMENT OF WOUND HEALING

The skin plays a major role in protecting the body. The constant renewal of the epidermis allows the skin barrier to remain functional. However, physical, chemical, thermal, microbial or immunological insults can impair this barrier function, leading to the disruption of the cellular, anatomical and functional continuity of the skin. Under normal conditions, the resulting wound is repaired during wound healing, a **complex process involving inflammation, cell proliferation, matrix deposition, and tissue remodelling**. To better understand the effect of a molecule on a precise step, cell type, or signalling pathway, various models can be used: cell cultures or cocultures (e.g. with neurons and/or immune cells), and 3D skin models (explants or reconstructed). To study wounds, the use of impaired wound models can also be relevant.



Wound healing rate (WHR)

As the endpoint of a successful treatment is the complete wound closure, the first approach to quantify the healing progress is to obtain the wound healing rate. **In-vitro, scratch assays** are performed and the WHR can be calculated integrating the initial and final wound area. Haematoxylin Eosin (H&E) staining are often carried out, sometimes in combination with saffron (HES).

Clot formation: fibrin and fibronectin

Upon injury, haemostasis generates the blood clot via the interactions of a wide array of clot-inducing and regulating factors, **including collagen exposure or vimentin liberation** in the extracellular matrix (ECM). Platelet aggregation creates a positive feedback loop to secrete more clotting factors and signals the start of the inflammatory response. Two main components of the clot are fibrin and fibronectin also involved in inflammation, cell migration and matrix remodelling.

Inflammatory phase and immune cells

During the inflammatory phase, various infiltrating immune cells play an important role in the defence against **bacterial infections and debridement of necrotic tissue**. The level of infiltration by each cell type can be measured by using various markers and assays such as mastocytes, CD3, cutaneous lymphocyte antigen (CLA), T, B or NK-cells, neutrophils, and macrophages. The transition **from inflammatory macrophages (M1) to reparative macrophages (M2)** is also an interesting marker of the transition from the inflammatory phase to the proliferation and tissue remodelling phases. Moreover, the high-level ROS production by M1 may induce cell damages and lipid peroxidation.

Proliferation phase and tissue remodelling

The proliferation phase overlaps with the preceding inflammatory phase. During the proliferation phase, the granulation tissue is formed with fibroblasts differentiating in myofibroblasts and both cell types produce extracellular matrix (ECM). In the meantime, neo angiogenesis occurs, which can be monitored by using CD31, CD34 or α V β 3 integrin markers. **The dermal-epidermal junction (DEJ) is restored**, which is highlighted by Col IV- VII, and laminin 332 networks. Keratinocyte migration and proliferation lead to

reepithelialisation which can be assessed with **keratins that are quickly induced after injury as well as psoriasin**. K1, K10, loricrin, Involucrin and Filaggrin can be used to evaluate **epidermis differentiation** and the restoration of **skin barrier integrity**. Sirtuin 1 stimulates filaggrin synthesis and regulates cell migration, inflammation, granulation tissue formation and reepithelialisation.

The tissue remodelling process is associated with **tissue maturation** and collagen degradation by matrix metalloproteinases [MMP1- MMP8]. During remodelling, the ECM generation is slowed. Collagen I replaces most of the type III collagen that represents a large part of the granulation tissue. The ratio Col I/Col III is therefore an interesting marker of wound healing progression.

Elastin is another major ECM component. Its renewal is very slow (several months), but some fragments are also involved in wound healing regulation. ECM also contains various proteoglycans useful for wound healing, including keratinocyte migration, proliferation and differentiation as well as angiogenesis, immune cell migration, and collagen or elastin synthesis. Lastly, **apoptosis reduces cellular expression** of the remaining unneeded myofibroblasts and vascular cells. Ki67 can be used as a marker of cell proliferation while **cell apoptosis and necrosis** may be assessed by using Annexin V, Propidium Iodide or TUNEL assay.

Cell interactions with other cells and ECM

The various cell types involved in wound healing interact with each other throughout the healing process. These interactions rely on the tightly regulated production of **growth factors**, as well as pro- and anti-inflammatory cytokines. Interactions between cells or with ECM molecules also involve various integrins, many of which are overexpressed and/or highly involved in wound.

In conclusion, wound healing is a complex process. Many cells and molecules have pleiotropic effects and act on several wound healing steps and mechanisms, as well as in different part of the skin. The choice of the model(s) and marker(s) to set up an experiment thus imply a thorough study of these mechanisms.

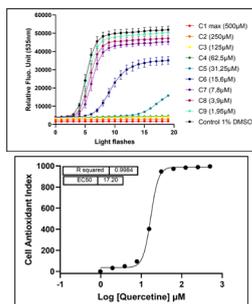
Wound Healing In-Vitro Efficacy Tests by StratiCELL



After injury, the skin naturally undergoes multiple healing phases leading to scar tissue formation. Several topical treatments have demonstrated their effectiveness to favour those reconstruction processes and avoid poor or impaired wound healing. As a reliable partner in skin testing, StratiCELL offers various **in-vitro efficacy tests** to study the main **cellular mechanisms of wound healing** such as **reepithelialisation, angiogenesis or dermal matrix remodelling**. Combined, those approaches are essential preliminary steps to demonstrate the scarring and repairing properties of innovative dermo-cosmetic compounds.

www.straticell.com | Corporate and testing sheet: <https://skinobs.com/preclinical/labo.php?id=197>
| Booth R108

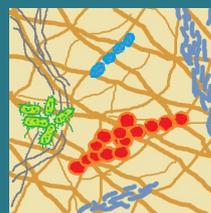
In-Vitro Cell Efficacy Tests for Antioxidant Activity by Anti Oxidant Power



In order to bypass the lack of information provided by classical in vitro tests, AOP has developed **innovative cell live bioassays** to measure **intracellular antioxidant effects** of active ingredients, extracts, or finished cosmetic products. AOP technologies have been optimized for any cellular systems in a high throughput format and are now available on skin models. Data are quantitative (full dose-response curves, determination of standard efficacy concentrations). **Prooxidant and antioxidant effects** can be discriminated within a single assay. AOP bioassays are **the first generation of tests** made available to substantiate claims independently or before clinical trials.

www.antioxidant-power.com | Corporate and testing sheet: <https://skinobs.com/preclinical/labo.php?id=295>

Skin Metabolism, Mechanical Integrity and Properties with Metaproteomics and Phosphoproteomics by Phylogene



Skin is the largest organ to repel attacks from external agents and functioning as both a physical and immunological barrier. Its glandular nature, bacteria rich composition and rather rapid cell turnover is propitious for a

wide range of innate and adaptive immune functions. Daily traumatized by naturally occurring abiotic stress (UV induced Oxidative stress, blue screen, cigarette smoke, pollutants) and physical traumas (inflammation, disruption of cell integrity), skin regeneration is paramount. "Decreased DNA damage; reduced inflammation; dynamic regulation of cell-cell and cell-matrix interaction; increased cell motility; increased lipids metabolism; increased migration and wound healing" are claimable phenomenon reached by **metaproteomics and phosphoproteomics analysis** when associated with bioinformatics protocols. While **metaproteomic analysis** could unravel **functional interactions between microbiota and hosts**, phosphoproteomics could unravel cosmetics/dermocosmetic treatment benefits, at the cellular level.

www.phylogene.com | Corporate and testing sheet: <https://skinobs.com/preclinical/labo.php?id=222>
| Booth P84

1 skin test equipment manufacturer in space by COURAGE & KHAZAKA

3 new devices incorporated in the last year by LABEX

3 new devices incorporated in the last year by MICROFACTORY

8 research centers by EUROFINs COSMETICS & PERSONAL CARE

10 challenge test protocols from QACS

17 years at your services for STRATICELL

20th birthday of IEC Bulgarie in April 2022

21 years of expertise by EVALULAB

25 years of expertise in sensory and consumer testing for SYRES

25 years of experience in clinical studies of cosmetics and medical devices by INTERTEK

35 years pioneering ultrasound

skin imaging systems by CORTEX TECHNOLOGY

50 technical experts by MERIEUX NUTRISCIENCES

62 customers purchased an EOTECH product

150 TiVi units delivered by

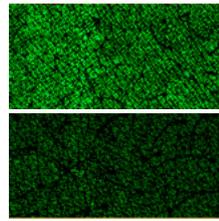
NEWS FEED

Subscribe to the free online Newsletter.

www.skinobs.com/news

MEASUREMENT DEVICES INNOVATION

The Epsilon Dermalyser: Hydration Image Analysis Software by Biox



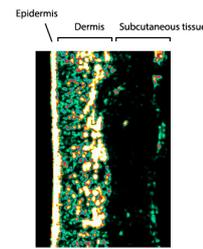
Biox is pleased to announce their new stand-alone software: the Epsilon-Dermalyser. Specifically developed for cosmetics and pharmaceutical studies, the software is equipped with **hydration image analysis** tools such as data comparison, e.g., skin post-treatment vs. pre-treatment, available to all Epsilon E100 users and non-users. Novelty features include:

- modifiable rectangular RoI (Region of Interest)
- **image builder** tool for larger area skin images
- **3-D image presentation** to emphasise skin surface texture

An example of a large area skin hydration image, pre-treatment and post-treatment, is shown in Figure 1: Large area skin hydration image: pre-treatment (top) and post-treatment (bottom).

www.bioxsystems.com | Corporate and testing sheet: <https://skinobs.com/instrumentation.php?id=78>

Ultrasound Skin Imaging: DermaScan and DermaLab by Cortex Technology



High frequency ultrasound imaging (20-25 MHz) is a non-invasive scientific method that facilitates advanced in-vivo skin analysis by real-time visualisation in colour of the epidermis, dermis, and subcutaneous layers. The DermaScan and DermaLab **ultrasound systems** are optimised for **high resolution** skin analysis. The ultrasound scanning and special developed software algorithms automatically calculate and display relevant skin parameters. The acoustic energy reflected in **specific skin layers** (intensity) is an example of such a parameter that correlate well with the amount of **skin collagen**. This means that the ultrasound scanning can be used to evaluate the performance of e.g., skin care products or nutritional supplements on the collagen level.

www.cortex.dk | Corporate and testing sheet: <https://skinobs.com/instrumentation.php?id=90>

C-Cube: the Ideal Tool that Perfectly Combines Measurements and 2D & 3D Imaging by Pixience



Ideal for efficacy testing and support to product claims, the C-Cube allows you to analyze more than **32 criteria (in vivo and in vitro)** on a single image. Its analysis software allows you **to control and increase** the accuracy of each measurement by **perfectly targeting** the image area(s) to be measured. **Versatile and precise**, the C-Cube allows you to **reduce the number of devices** in your study protocols and perfectly control the cost of your analyses. Easy to use, the acquisition of standardized photographs of the skin and hair is done with a single click!

www.pixience.fr | Corporate and testing sheet: <https://skinobs.com/instrumentation.php?id=107>

Visioscan® VC 20plus: Skin Topography Directly Measured with the Multi-Talent by Courage & Khazaka



The Visioscan® VC 20plus is a **unique UVA-light skin camera** to study the skin surface directly. The **SELS®** parameters (**S**urface **E**valuation of the **L**iving **S**kin) have been developed especially for this camera to describe the skin "as the eye can see it" and are used in **numerous studies**. It had been used on board of the International Space Station ISS for several years to monitor the astronauts' skin. With its **new**

hard- and software the system offers a **multitude of possibilities**: skin topography (roughness, smoothness, wrinkles), aging (anisotropy), measuring hair length and width, spots & lesions, there are no limits to this tool. Very unique: the use of the special tapes Sebufix® and Corneofix® to assess sebum and desquamation.

www.courage-khazaka.de | Corporate and testing sheet: <https://skinobs.com/instrumentation.php?id=80>
| Booth R112

High Level Services in Image Acquisition and Analysis for the Dermo-cosmetic Industry by Newtone, a Qima Life Science Company

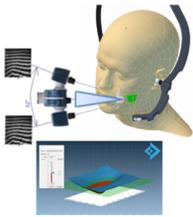
NEWTONE
A QIMA Life Sciences Company

Newtone Technologies is a major actor in imaging devices development and image analysis services for **skin and hair research**, since 2005. With a headquarter in Lyon (France) connected around the world with a large network of clinical testing centers, Newtone provides **worldwide innovative solutions** that bring unique value to CROs and Cosmetic Industry manufacturers for clinical projects. Newtone's devices cover

full face imaging, but also dedicated custom solutions for **hand/foot and nails imaging, eye contour, eyebrows, and eyelashes** follow-up as well as multiple possible areas on the body or scalp using nomadic macro-imaging tools. With a wide spectrum of lighting technologies including **visible light, gradual polarization, UV, IR and hyperspectral**, images reveal large and complex datasets than can be explored with smart image analysis services. Thanks to Cosmetic Industry key players trust, Newtone can develop tomorrow's innovative solution for skin and hair investigation.

www.newtone.fr | Corporate and testing sheet: <https://skinobs.com/instrumentation.php?id=124>

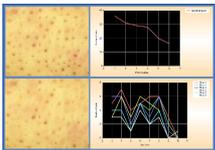
DinasKIN-2: The Contactless Firmness Measurement is Back! by Eotech



Here is the new firmness measurement concept finally available in a more universal form! On one side an arm, allowing the **deformation of the skin by blowing air**, coupled to the universal head holding system that equips all their positioning benches, and on the other hand a 3D sensor. The combination of these two elements makes it possible to acquire a measurement before, during and just after the deformation to restore the deformation and persistence component by subtracting the second and third measurement from the first. Their AEVA software analyzes the **surface, volume and depth of this deformation** as well as **its shape** (circularity) related to the laxity of the tissue as a function of the surface stresses.

www.eotech.fr | Corporate and testing sheet: <https://skinobs.com/instrumentation.php?id=82> | Booth P106

Polarization Spectroscopy Imaging by Wheelsbridge



Wheelsbridge AB develops, manufactures and brings to market technologies for quantification of skin erythema and other skin parameters. The Tissue Viability Imager TiVi700 2.0 (TiVi) is based on the principles of **polarization spectroscopy imaging** and facilitates objective assessment of the safety and efficacy of novel skin care products in the development and validation phase. In addition to creating **maps of skin microcirculation** TiVi is now also equipped with software

extensions for assessment of:

1. Blackhead and whitehead spots (comedones).
2. Colour changes within selected skin sites over time.

www.wheelsbridge.com | Corporate and testing sheet: <https://skinobs.com/instrumentation.php?id=109>

TESTING LABS TRENDS & NEWS

Advanced Skin Imaging for Clinical Evaluations by Eurofins Cosmetics & Personal Care



Skin imaging has become one of the most innovative ways to analyze skin and the effects that products have on it. Features such as full facial analysis and Artificial Intelligence increase the understanding of product efficacy both for consumers and formulators. Eurofins offers a variety of imaging options, **featuring both 2D and 3D systems**. These systems highlight many skin parameters, including but not limited to **wrinkle size, radiance values, and pore counts**. A recent facial study run for wrinkles utilized 3D analysis to highlight a significant decrease in average wrinkle length ($p=0.03$) after once daily use of a facial test product. Eurofins is committed to being on the forefront of skin imaging creating accurate data for both R&D and marketing purposes for our clients.

www.eurofins.com | Corporate and testing sheet: <https://skinobs.com/labo.php?id=26> | Booth Q130

Get Rid of Redness! by Intertek



Intertek Clinical Studies provides support for your claims for reactive or **rosacea-prone skin: anti-redness, anti-inflammatory...**

With the help of our imaging equipment such as **the ColorFace or the C-Cube**, Intertek's experts monitor the intensity of redness before, during and after the application of your skin care or make-up products. We can include subjects with redness or induce redness in a standardised way. Objective: to evaluate the efficacy and tolerance of your product after one or several applications.

www.intertek-france.com | Corporate and testing sheet: <https://skinobs.com/labo.php?id=29>

A Picture is Worth a Thousands Words by Mérieux NutriSciences



How can consumers believe in the product efficacy? Percentages and numbers are fundamental to prove the scientific evidence, but the consumer's attention is caught first by the **images that show the efficacy** of tested products on volunteers. Their CosmeticLAB is equipped with state-of-the-art and versatile instrumentation and ad hoc experimental protocols. Cutting-edge technologies for infinite possibilities.

3D Skin scanner – reproducible images before and after

- Face Care as lips volume, anti-ageing, eye bags, pores and imperfections
- Body Care as cellulite, body profile, cutaneous micro-profile

2D image analyzer – digital contactless image acquisition and analytical data

- Skin Care as wrinkles, spots, imperfection, skin tone
- Colour cosmetics as brightness, long lasting, mascara volume, length and curling effects

Cutaneous echography

- Skin Care as filler effect, firmness effect, toning, anti-stretch marks

Thermal distribution analyser

- Well-being & body care as heavy legs, cellulite
- Reshaping as body-sculpting of the legs

www.merieuxnutrisciences.com | Corporate and testing sheet: <https://skinobs.com/labo.php?id=52> | Booth R129

PARTNER KEY FIGURES

200 The new Gen 5 2D system has over 200% of the image data of the prior sensor by VALIDATED CLAIM SUPPORT

1 800 days dedicated to Research in 2021 by NEWTONE

3 800 in vitro assays by ZURKO RESEARCH

10 000 preclinical and clinical trials achieved in 2021 by CIDP

11 300 studies conducted by PRODERM

10M pixel tags analyzed on 2 cm² by the C-Cube Clinical Research by PIXIENCE

cosmetotest

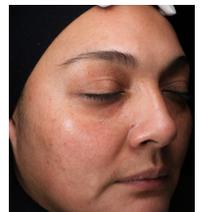
Cosmetic Testing Symposium

Symposium on Preclinical & Clinical Testing in Dermocosmetics

24 & 25 May 2022
Lyon

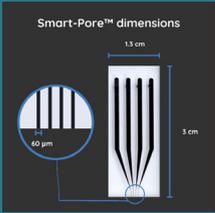
Imaging Analysis for Full Evaluation by Zurko Research

The evaluation of skin parameters by imaging can be done through the use of different equipment and technologies. In addition to being a method for obtaining objective data, it is also a support for illustrating the results. At Zurko they have several devices based on image analysis, we have currently acquired a second **Visia device**. Its use is practically routine in any studio and is also very useful in tests with color cosmetics. Another equipment to highlight is **Primos**, a device with which **3D images of the skin topography** are taken to subsequently analyze its roughness. At Zurko they consider it essential to reinforce the scientific data obtained with images made in an appropriate and reproducible way, which allow us to visually provide a vision of the evolution of treatments.



www.zurkoresearch.com | Corporate and testing sheet: <https://skinobs.com/labo.php?id=88> | Booth Q110

Smart-Pore™ studies treatments for hyperhidrosis by Microfactory



Hyperhidrosis is a disease that affects **3%** of the world's population and is characterized by excessive sweating. Patients will produce up to 1mL/min of sweat against 3 times less normally. **Smart-Pore™**, the first human artificial pore, coupled with a SOD4 measuring instrument, permits to reproduce all the sweating conditions: those of a normal volunteer and those with hyperhidrosis. In just one day, Smart-Pore™ evaluates the performance of antiperspirants by visualizing and quantifying the complex formed between an active ingredient and sweat.

www.microfactory.eu | Corporate and testing sheet: <https://skinobs.com/preclinical/labo.php?id=266>

New In-Vitro Methods for Sand Resistance by Helioscreen



Beyond the static sun protection performance provided by sunscreen products against UV radiations, the photoprotection is challenged by consumers in real conditions of use (such as the Water Resistance) but none standardized in-vivo or in-vitro method are available today concerning the Sand Resistance assessment. For this purpose, a new relevant in vitro method has been developed to allow the evaluation of the **Sand Resistance percentage of a sunscreen product** by comparing the in vitro SPF before and after a specific agitation in a standardized sand.

www.helioscreen.fr | Corporate and testing sheet: <https://skinobs.com/preclinical/labo.php?id=201> | Booth P104

Expert Team for the Safety and Efficacy Evaluation by Labex



Labex is a laboratory based in Barcelona that can offer you a wide range of services in based on the **safety and efficacy** of cosmetic products.

From facial and body measurements in terms of elasticity, shine, hydration, etc. to **expert evaluation by scoring** and the use of high-tech systems such as **Visia®**. All this thanks to a professional and expert team, knowledgeable of the regulations and with a quick response, adapting to all requirements. All this is achieved thanks to platforms that allow for faster data collection and the performance of studies and reports in the shortest possible time.

www.lab-ex.org | Corporate and testing sheet: <https://skinobs.com/preclinical/labo.php?id=382>



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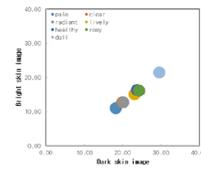
Innovative and Unique Skin Imaging Studies by proderm



Customers of the dermatological contract research organization proderm have always benefited from the variety of **image-based methods** that can be used in the context of claim support or proof of efficacy. In addition to various in-house developments, such as the **photographic laboratory 'proderm USR-Clip'**; a number of commercially available systems are available. Among the latest achievements is the LC-OCT. **LC-OCT** is considered a revolution in the field of imaging techniques, as it combines the advantages of the innovative methods **'confocal microscopy'** and **'optical coherence tomography'** into a unique technology that thus provides a **live horizontal and vertical view** into the uppermost layers of the skin.

www.proderm.de | Corporate and testing sheet: <https://skinobs.com/labo.php?id=9> | Booth Q100

A New Paradigm for Skin Color Evaluation with Skin Color Specialized Color Chip by Ellead



Ellead has recently developed a **new efficacy evaluation method** that incorporates **emotional expressions** representing skin color and has completed a **patent registration**. It is possible to quantify complex and emotional skin expressions such as **"healthy skin", "radiant skin" or "dull skin"** and check the statistical significance through the improvement rate. This is a new method in which the expression of skin improvement, which was ambiguous through the improvement rate, is evaluated numerically, unlike the existing method that evaluated through a simple parameter such as CIE-Lab or the digital color space. If you would like to quantify the effect of your products to the skin with **vitality, health, or radiant**, please contact Ellead.

www.ellead.com | Corporate and testing sheet: <https://skinobs.com/labo.php?id=72> | Booth A117

Best Way to Demonstrate your Claims Performed on Visible Effects by Evalulab



Clinical studies performed at Evalulab, a Canadian CRO with more than 20 years of experience, helps to determine the effectiveness of facial skin care products on visible parameters such as **wrinkles, fine lines, redness, pimples, pores, brown spots, imperfections, etc...** During the study, standardized photographs of high resolution are taken at each visit and are analyzed to show improvements from the product use. **Computer assisted analysis** is carried out to assess skin parameters and permits our clients to identify and obtain supported results that can be directly used in your marketing communications.

www.evalulab.com | Corporate and testing sheet: <https://skinobs.com/labo.php?id=38>

Multi-Directional in vivo Evaluation of Regenerating and Restructuring Effects by IEC Group



IEC consolidates its expertise in the **regenerating, repairing, restructuring or strengthening effects** of the skin and barrier function with its protocol developed in 1998 and recent innovations in imaging. A protocol with **stripping and TEWL** measurements in kinetics and over a period of 21 days to highlight the mechanisms of action of the products, deployed with the same rigor in the **9 IEC test centers in France, Bulgaria, South-Africa and Asia** (Japan, Singapore, Korea and China) for a **global multi-ethnic approach**. Protocol that can be supplemented by skin imaging analyses, with for example

VisioScan® VC 20 plus (Courage&Khazaka), C-Cube® (Pixience), Fringe Projection (Dermatop™ Eotech) or 50 MHz ultrasound measurements (Dermcup™, Atys medical) for an objective analysis and visualization of the effects on the **entropy and homogeneity of the dermis** and of the skin surface.

www.iecfrance.com | Corporate and testing sheet: <https://skinobs.com/labo.php?id=7> | Booth Q109

Evaluate the Texture of your Cares with Sensory Experts by Syres



Syres's Sensory experts are qualified subjects who have demonstrated high sensory sensitivity and have received training. They are able to perform **sensory evaluations** of different products. **Objectives of their sensory panel:**

- Characterize the sensory angle of a cream
- Compare its characteristics with those of its competitors
- Monitor its positioning in relation to the market
- Quantify potential differences
- Link the sensory data of a product with hedonic or instrumental data

- Identify and measure the effects of a change in formula or process on a few key characteristics
- Follow the evaluation of the sensory texture properties of a cream over time

A real aid to development and optimization!

www.syres.fr | Corporate and testing sheet: <https://skinobs.com/labo.php?id=145>