



Skin, Hair, Nail Testing Platforms

#27 - 03/2023

zoom #27

BY SKINOBS



edito

Skinobs is happy to bring you some news of testing experts of the Beauty Industry. Skinobs will host Boost Your Test at in-cosmetics Global in Barcelona and then will organize in collaboration with Cosmet'in Lyon the Cosmetotest Symposium that will take place on 24-26 May 2023. After seven 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. In this 27th ZOOM edition, we are happy to bring you, a summary of the in-vitro and in-vivo studies to evaluate the barrier function and as usual, to share with you the latest news of our partners.
Happy reading!

Anne Charpentier, CEO

7 years!

We thank all our partners for their trust. They enable us to offer the Cosmetics Community a unique and easy tool to accelerate the claim substantiation projects. We are really glad to share this success with you.

The clinical testing market, dynamic and innovative

Skinobs has conducted a unique study on the global clinical testing market for the beauty industry which enables to better understand the dynamics of this sector, its trends, and key drivers.

The beauty market in the world represents a total of 228 billion € in 2021 with the golden category of skin care [42%]. The main trends driving this market are the sustainability and social responsibility of the customers, the regulation worldwide, and the environmental and life-style changes.

Europe is the major testing partner, with 50% of the global business related to clinical evaluation on its soil. The second localization of these types of services is Asia with 24% and then North America with 18% of the request for clinical studies. We can note that a major part of the testing laboratories owns a unique center, whereas only 3% of them have more than five centers on several continents which are represented by international groups like Mérieux NutriSciences, Eurofins, SGS IEC Group or Complife Group among others.

About the measurement devices supporting the biometrological proof, Europe is also the leader as we can count 66 companies on the continent providing specific and various instrumentations to analyze the skin, scalp, hair, or nails performance. Conducting this international study on clinical testing services, we had the confirmation of the vitality of this sector with a high level of expertise and a large range of testing. This field of testing is dominated by the consumer tests that offer easy and cheap claim supports available all over the world. The singular know-how of the skin biometry that European countries have, influence worldwide the sector with classical or innovative and high-tech methods. Finally, this testing market benefits of the influence of the resilient Beauty market.

In 2022

7 700
USERS

93
NATIONALITIES

+80 000
VIEWED PAGES ON
THE PLATFORMS

+ 45%
USERS
VERSUS 2021

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



400 Methods
52 Skins mechanisms
192 CRO's

436 Methods
200 Claims
246 CRO's

CONNECT FOR FREE SKINOBS.COM

BOOST YOUR TEST

PREPARE FOR THE FUTURE OF TESTS

Testing&LabZone
March 2023
Barcelona



in-cosmetics® global

Booth Z10

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.

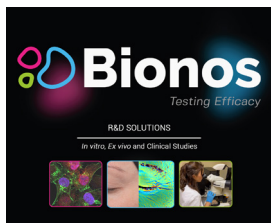
It aims to guide you in your evaluation process and to advise whatever classic or innovative claims. It helps you to identify the most appropriate methods and choose the right CRO around the world that best match your evaluation specifications.

PhD Trials a Leader in Testing Innovations



PhD Trials® will, once more, present its innovations at in-cosmetics Global in Barcelona. Their team of specialists will present new methods involving the use of their new Ramansystem for ingredient penetration, water evaluation and skin composition analysis, Image analysis methods for anti-age studies and the new Skin-Brain link with the Emosome concept for sensorial evaluation. Considered as one of the most innovative CROs they will be glad to show to all their current and future customers "what is new" from their test protocols and www.phdtrials.com | <https://skinobs.com/labophp?id=89> | Booth Z29

BIONOS, 10 Years of Experience in Cosmetics Testing



Bionos Biotech is a company specialized in the development of efficacy studies for the cosmetic industry. Thanks to their accumulated experience, they carry out innovative testing protocols according to their client's needs offering a comprehensive and cost-effective solution to support their product's claims. Bionos Biotech will be present at In-cosmetics to talk about its new protocols for the justification of on-trend claims, in-vivo dermal penetration studies as well as the addition of safety studies to its portfolio. All this, together with the acquisition of new equipment, clearly demonstrates the intention of Bionos to bet on innovation as a pillar to remain a benchmark in the sector.

<https://bionos.es/> | <https://skinobs.com/labophp?id=192> | Booth AA35

Evaluation of the Effect of Exosome on Skin Barrier Integrity in Psoriatic Patients by CIDP

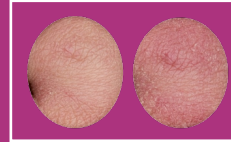


Psoriasis is a chronic inflammatory disease affecting the skin and joints and characterized by the hyperproliferation of the epidermis, elongated and prominent blood vessels and a thick perivascular lymphocytic infiltrate. Previous studies have suggested that ambient dust pollution could promote psoriatic relapses and induce production of inflammatory mediators. Forerunner in the dermo-cosmetic field, CIDP has developed an ex-vivo/in-vivo approach where corneocytes collected from tape strips of psoriatic lesioned zone are exposed to our innovative, standardised and controlled pollution exposure system (CPES). Their findings demonstrated a compromised skin

integrity and a decrease in mechanic resistance and hydrophobicity markers in skin exposed to pollution. Our findings also demonstrated that this ex-vivo/in-vivo approach can be used to characterize the biological effect of external stressors on pathological skin.

<https://www.cidp-cro.com/> | <https://skinobs.com/labophp?id=44> | Booth Y40

High Resolution Imaging for Skin Microrelief Evaluation by Newton Technologies



Improving the skin barrier function and skin moisturizing is achievable when using cosmetics, which performance can be assessed either by using local instrumental measurements but also with high resolution

resolution innovative imaging solutions. Newton Technologies developed the SkinCam®, a nomadic high resolution imaging system that can be used either at the laboratory under controlled conditions or at home by the consumers or subjects themselves. Resulting self-calibrated and standardized images are of interest to document and illustrate the moisturizing effect. Moreover, the analysis of the 2D images obtained under parallel polarized light and of 3D images resulting from shade before shading algorithms have been proven relevant and highly valuable to address subtle changes in the skin micro-relief pattern and roughness parameters.

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

Skin Imaging with Antera 3D by Miravex



The Antera 3D CS is a research-grade camera & software that will support your claims substantiation. It's versatile, precise, easy to use and it has been used in more than 150 scientific papers. And it's fast, completing a study in up to half the time than other devices. Real 3D images acquired with a patented method in less than 1

second contain information about skin colour, topography and spectral characteristics without any post processing. The powerful analysis software can output hundreds of measured parameters to an Excel spreadsheet in a single click. Support your claims on wrinkles, texture, pores, stretch marks, cellulite, brown spots, depigmenting, redness, inflammation, etc. Boost your test with Antera 3D!

www.miravex.com | <https://skinobs.com/instrumentation.php?id=72> | Booth AA29B

TESTING LABS TRENDS & NEWS



Evaluation of the Daily External Aggressions by Mérieux Nutrisciences

Skin is the largest and one of the most important organs in the body, as separates your delicate insides from the harsh outside world, like a shield that protects against external infectious or toxic substances and allergens. A cosmetic product that claims to reinforce the skin barrier need to pass the following step-point:

In vitro investigation.

- Capability to create a barrier that limit the substances permeation
- Antipollution barrier effect by measuring barrier properties on HaCaT exposed to pollutant simultaneous

In-vivo illustration

- TEWL evaluation to guarantee the hydric balance, improving the skin resilience
- Skin surface, texture and pores minimizing evaluation using a 3D skin scanner analyser

In vivo improving

- Biome-friendly evaluation by an integrated and multi-tool approach
- Skin microbiota equilibrium evaluation by a metagenomics advanced study

<https://www.merieuxnutrisciences.com/eu/> | Corporate and testing sheet: <https://skinobs.com/labophp?id=52> | Booth AA31B

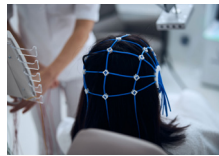
Clinically Proven Claims by Evalulab



Evalulab's team is committed to provide the highest quality of clinical studies services. The skin barrier is the outermost layer of the skin, which functions as a protection against external factors such as pollution, bacteria and UV rays. To protect the skin barrier, it is essential to use skincare products designed to support its functions. There are various methods available to test the effectiveness of skincare products, including the use of Trans-Epidermal Water Loss (TEWL) measurements and skin hydration testing. Both are indicators of the efficacy of the skin barrier. Thus, protecting the skin barrier is essential for maintaining healthy and glowing skin. By using the right test, you can ensure that your skin care products released to the market can provide healthy and well-protected skin.

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

SGS proderm Implements New Method for Well-being Measurement



SGS proderm currently expands its range of services for investigating the well-being effects of cosmetics with a new method. Electroencephalograms (EEG) are used to investigate the extent to which the use of a cosmetic has an effect on brain activity and how pronounced this change is. To be able to support products with high-quality neurocosmetics claims, one needs to apply objective measurement methods and the EEG is such a method, which also provides an attractive visual presentation of the results. Thus, the effect of the product is immediately recognizable for everyone.

<https://www.sgs-proderm.de/en/> | Corporate and testing sheet: <https://skinobs.com/labophp?id=9php?id=90> | Booth AA38

Measuring Consumer Experiences & Emotions by Actalia Sensoriel



Actalia Sensoriel, French institute specialized in sensory evaluation and consumer tests, has been supporting companies for more than 30 years in the development and optimization of their products and packs. Providing tailor-made approaches, Actalia Sensoriel contributes to the development of high-performance products that generate unforgettable consumer experiences. Focused on constant innovation, they recently developed approaches to understand consumer experiences & emotions specifically for beauty products. Those include differentiated tools for skin care, hair care and make up categories. We are also striving to better understand the link between sensory properties and emotional benefits along the product experience and to measure it dynamically.

www.actalia-sensoriel.fr | Corporate and testing sheet: <https://skinobs.com/labophp?id=298>

Skin Barrier Protection and Moisturization by Validated Claim Support



Our skin is the largest organ in our body and serves as the protective barrier between us and the outside world. Barrier Function keeps water in and the environment out: both keys to delaying visible aging. It's not only relevant for overall health, but also for conditions such as dryness, eczema and psoriasis. The stronger the barrier the more moisture can be retained, which can result in healthier, younger looking skin. VCS offers bio-instrumental assessments using the Tewameter and Vapometer to assess TEWL. Measured hydration can be assessed directly using the Corneometer, Novameter or via the EpiD Moisture Meter.

<https://validatedcds.com/> | Corporate and testing sheet: <https://skinobs.com/labophp?id=222> | Booth AB30

Sleep and Anxiety at the Heart of the Subjects' Concerns by Syres



Syres conducted a study of 5,500 people on its panel regarding their quality of life and well-being indicating for 86% of them that they had a healthy lifestyle. Sleep, stress and anxiety appear as notable elements of the general condition of these subjects. In fact, 81% report having sleep problems and 52% point to stress and anxiety as the main cause. This information is corroborated by 63% of subjects who say they are sensitive to stress and for

74% of young people aged 18 to 39. Finally, people who believe they have a healthy lifestyle have sleep disorders less often. This influence increases with age, especially in women.

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

TOP 8 CLAIMS 2022

Preclinical Assays

- 1 Hydration
- 2 Anti-ageing
- 3 Nourishing
- 4 Anti-UVB
- 5 Anti-Maskné
- 6 Radiance
- 7 Regenerating
- 8 Anti-inflammatory

Clinical Studies

- 1 Anti-ageing
- 2 Hydration
- 3 Antioxidant
- 4 Anti-fall
- 5 Anti-wrinkles
- 6 Skin microbiota
- 7 Firming
- 8 Anti-inflammatory

IN-VIVO EVALUATION OF THE BARRIER FUNCTION

The barrier function of the epidermis plays a vital multifunctional role in protecting the body from the environment and in modulating the transcutaneous penetration. The stratum corneum, the ultimate layer of the skin, provides essential and dynamic features such as mechanical resistance, photo protection, antimicrobial and antioxidant defenses, body temperature and hydration regulation, waterproof effect. This barrier maintains healthy skin, preventing itching, burning, and stinging symptoms related to sensitive skin. The cutaneous barrier function can be studied using various protocols: clinical evaluation, storage, sensory analysis or instrumental evaluation. The biometrological studies enable to visualize the structure and surface of the skin and to quantify its different physiologic parameters:

- Trans Epidermal Water Loss [TEWL] using the Tewameter 300 and Nano (C+K), Aquaflux (Biox), Dermalab (Cortex), Evaporimeter, Vapometer...
- Moisturizing: Corneometer® (C+K), Dermalab, Epsilon (Biox), MoistureMeter SC, Skicon-200, DPM 9003...
- Micro-topography analyse: MoistureMap® (C+K), Epsilon (Biox)...
- The microbiome balance: 16S-qPCR, Ms/MS PCR, metabolomic analysis...

- The surface visualization: Visioscan (C+K), SkinCam, SpectraCam, NomadCam (Newtone) Dermalab Video (Cortex), AEVA-HE2-M and Evasurf (Eotech), C-Cube (Pixience), Antera3D (Miravex)...
- The structure visualization: MPT Flex Optical Multiphoton Tomography, Scanner, Confocal microscopy, LC-OCT 3D microscopy...
- The molecular water content: Confocal microscopy LBRAM 800, Raman spectroscopy...

Over the years, numerous studies have contributed to understanding the skin barrier function with the contribution of the neuroscience, epigenetic and cosmetic science. In the Clinical Platform you can retrieve to substantiate the cutaneous barrier strengthening: 40 methods, 138 testing laboratories in 38 countries. An essential interdisciplinary approach is necessary to measure the performance of cosmetics to strengthen the skin barrier and to finally give the consumers all guaranties of success for their daily beauty routine.

MEASUREMENT DEVICES INNOVATION

• Tewameter TM Hex Goes Where no Skin Instruments Have Ever Been Before by C+K



Shortly after bringing the state-of-the-art TEWL probe to the market, it has already been successfully established as barrier measurement standard because nothing compares to its accuracy and reproducibility – not even in the extreme conditions of Antarctica. After the C+K instruments have already proven themselves in space between 2006 and 2018, Prof. Darlenski and his team from Sofia, Bulgaria took them in 2020 for the first time to the eternal ice. Their study shows how exposome factors originating from the extreme surrounding environment influence skin structure and physiology and that prolonged contact to exposome factors resulted in epidermal barrier impairment and an inflammatory response, while the increased melanin content may be a defensive mechanism of adaptation.

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

• C-Cube 3, Much More than a Chromameter by Pixience



Much more than a chromameter, the C-Cube Edition Clinical Research 3 brings together in a single device the ability to evaluate criteria:

- 2D: color, surface, pigmentation, erythema, ITA;
- 3D: roughness, depth, symmetry and texture distribution over the skin.

The C-Cube is based on an Ultra-HD camera, patented LED lighting and exclusive 3D colorimetric and geometric calibration. This technology ensures the accuracy and reproducibility of your measurements. Thanks to its new field of view, observe larger surfaces and analyze the smallest color variations:

- An image resolution of 12 million pixels (x70 to x140 magnification)
- Field of view 14.5*19.5 mm²

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

• Excellence in Measuring TEWL and Skin Hydration: the AquaFlux & Epsilon by Biox

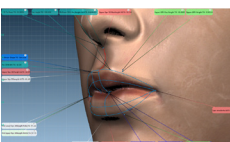


and in vitro applications.

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

Biox Systems manufactures research-grade TEWL and Skin Hydration Measurement Devices, AquaFlux™ & Epsilon™. AquaFlux™ condenser-chamber TEWL measurement device is an evaporimeter using patented condenser-chamber technology providing unrivalled performance (sensitivity & accuracy) and flexibility (measuring water vapour flux, including TEWL & SSWL, in-vivo & in-vitro). Epsilon™ with its linearly calibrated response is a novel touch-sensitive imaging device that characterises static and dynamic properties of skin, including Stratum Corneum hydration, hydration heterogeneity and micro-relief. Epsilon™ real-time imaging yields both hydration imaging and quantitative

• 3D Dimensional Analysis Applied to Face & Lips by Eotech



As part of EOTECH's solution for 3D imaging, our AEVA software is now offering a module to measure volumes changes. For face or lips, specific landmarks will be selected for calculating 3D length contour, proportions and angles. For instance, the distance change between cheekbones or cheeks can prove a plumping effect, while V-shape angle can measure improvement on the oval. This analysis can also be focused on the lips and cupid's bow to quantify the 3D dimension,

length contour on curved lips as well as volume. In both applications, many parameters are calculated (csv file).

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

SKINOBS EVENTS



NEWS FEED

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www.skinobs.com/news

PRECLINICAL ASSAYS OF THE SKIN BARRIER FUNCTION

Skin barrier integrity may be assessed on skin explants or 3D reconstructed skin models (epidermis or full thickness). The effect of an ingredient on a specific marker can also be tested on a 2D keratinocyte culture or in coculture with immune cells or neurone cells which can modulate keratinocyte response.

1. Evaluation of skin barrier efficiency

Skin barrier normally prevents the passage of various molecules. Its integrity may therefore be assessed by measuring Trans Epidermal Water Loss (TEWL), Transepithelial/transendothelial electrical resistance (TEER), or the entry of various molecules through the epidermis thanks to Franz Cell (OECD 428) or other percutaneous penetration technics.

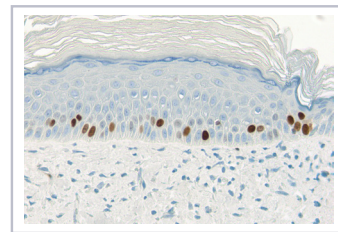
2. Skin barrier formation

Skin barrier integrity involves an appropriate formation and renewal correlated to keratinocyte proliferation, differentiation, and desquamation. Various biomarkers allow to assess the distribution of undifferentiated keratinocytes (K5, K14), their stemness (K15, K19), their proliferation (Ki67) and their state of differentiation (K1, K10, Loricrin, Involucrin, Filaggrin).

Other markers such as K6, K16 (reinforce the cell-cell and cell-matrix cohesion) transglutaminases 1, 3 and 5 (control involucrin and loricrin covalent-crosslinking), Sirtuin-1 (controls filaggrin synthesis), Caspase 14 (controls filaggrin degradation) or kallikreins (involved in desquamation) are also interesting.

Filaggrin degradation leads to Natural Moisturizer Factor (NMF), a key factor for skin hydration. Appropriate skin hydration and pH allow the proper functioning of skin enzymes involved in stratum corneum formation and cell cohesion.

Some components of the dermal-epidermal junction (DEJ) such as Laminin 332 (Laminin V), type IV collagen, nidogen-1 & 2 and Perlecan or allowing the fixation of keratinocytes on the DEJ such as Integrin alpha 6 and beta 4 are not only responsible for the adherence between dermis and epidermis but also have an impact on keratinocyte survival, stemness, proliferation and differentiation and therefore on skin barrier function.



3. Tight junctions and skin integrity

Tight junctions are responsible for the cohesion between the corneocytes and prevent the transfer of various molecules through the SC. Their integrity may be assessed with Corneodesmosin, Zonula Occludens 1 (ZO1), Occludin, E-Cadherin, Desmoglein-1, Claudin 1.

SC cohesion also involves proteins such as envoplakin and periplakin which connect intracellular keratins to membrane and cellular junctions.

4. Antimicrobial peptides

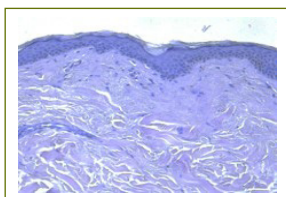
The first line of defence against pathogens is formed by the antimicrobial peptides secreted on skin surface. Such antimicrobial peptides are for example human cathelicidin LL-37, types 1-4 beta-defensins, psoriasin (S100A7), calprotectin (S100

A8/9), koebnerisin (S100A15) and RNase.

5. Stratum corneum lipid barrier

Lipid composition and organization is also highly important for skin barrier function. Epidermal thickness, SC thickness and lipid organisation may be assessed using Raman microspectroscopy while lipid composition is obtained using liquid chromatography coupled to high-resolution mass spectrometry. This may allow to evaluate in particular ceramide synthesis, subclasses, and organization.

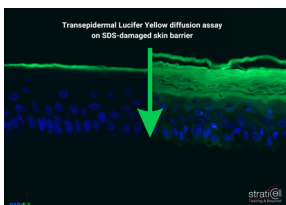
New Models of Skin Barrier Alteration by Syntivia



Syntivia has developed two new ex vivo human skin models with altered skin barrier and dehydration. Those skin models are ideal for demonstrating claims of tissue regeneration, skin barrier reconstruction and hydration to identify new efficient active compounds and cosmetic formulations. Skin explants obtained by plastic surgery are stripped or exposed to a detergent. The skin explants are then kept alive to allow treatment with cosmetic or dermatological formulations. After alteration of the skin barrier, several crucial markers of differentiation are decreased while TEWL increases. After several days, the untreated skin shows a very immature stratum corneum that contains parakeratosis. In contrast, treatment with the test product result in reconstruction of the upper layers of the epidermis and reactivation of the expression of essential markers of the stratum corneum.

<https://www.syntivia.fr/> | Corporate and testing sheet: <https://skinobs.com/preclinical/labophp?id=202>

In-Vitro Efficacy on Skin Barrier Integrity ? Define the Right Testing Strategy with StratiCELL



It is commonly accepted that there is no stand-alone method to address the skin barrier function and that several endpoints should be used and convey towards the same outcome. Besides in-vitro measurement of key biomarkers on keratinocytes in monolayer cell culture or on 3D skin models, StratiCELL also offers transepidermal dye diffusion assays using 3D reconstructed epidermis displaying an "in/out" or an "out/in" disrupted barrier. Those tests enlarge the panel of bioassays available to evaluate the effectiveness of dermo-cosmetic actives to restore the skin barrier function. However, defining the right testing strategy is essential to save time. Contact directly StratiCELL's experts to set-up the best adapted testing strategy.

<https://straticell.com/> | Corporate and testing sheet: <https://skinobs.com/preclinical/labophp?id=197> | Booth Z28

Microfactory & CIDP's Work with U-Skin™: The Innovative and Correlated Technology

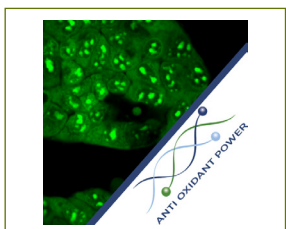


U-Skin™ replicates the natural sebum and sweat secretion of skin throughout the day. Its cutting-edge technology speeds up this process and accurately evaluates cosmetic product efficacy within 4 hours due to its precise excretion flow rate.

Furthermore, its results have been validated through in-vivo/in-vitro correlation with CIDP, demonstrating its reliability in predicting long-term product efficacy. Three foundation products were tested, and all three evaluation methods: clinical scoring, image analysis, and U-Skin™ measurement, showed consistent results, indicating a strong correlation between in-vivo/in-vitro results. Screen your products with U-Skin™ before handing off only the best ones to in vivo testing!

<https://www.microfactory.eu/> | Corporate and testing sheet: <https://skinobs.com/preclinical/labophp?id=266php?id=266php?id=197>

Advances in Cell Antioxidant Activity Assessment by Anti Oxidant Power



Anti Oxidant Power – AOP provides cell-based efficacy testing of cosmetics ingredients using patented technologies which allow, by a controlled generation of ROS within the cells, the precise, quantitative, reproducible and high throughput measure of the free radical scavenging activity of a sample (compounds, natural extracts, end products, ...) at the cell level. AOP is developing and commercializing a wider range of innovative cell-based assays for relevant information in relation to antioxidant effects: skin and hair protection, catalase-like effect, activation of the ARE-Nrf2 pathway or cell defence to oxidative stress, anti-pollution and photo-protection activities (UV and blue light).

<https://antioxidant-power.com/> | Corporate and testing sheet: <https://skinobs.com/preclinical/labophp?id=295> | Booth Y21

Strips Proteomics Analysis Breakthrough by Phylogene

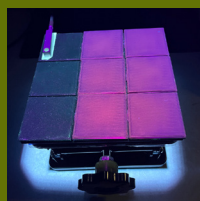


In cosmetics, stripping remains the more efficient and easy way of sampling, although these sample types present significant technical challenges

for proteomic analysis. From samples preparation to extraction, several critical steps are to be taken care of. Glue, plastic polymers are major contaminants that must be dealt with before digestion and mass spectrometry analysis. To overcome these technical issues and for continuous improvement in dermo-cosmetics, Phylogene developed new "PAC and iST" techniques for skin proteomics. When multiple D-Squames were previously necessary, only 1 D-Squame is now enough for an improved recovery yield of proteins! Just few D-Squames are now suitable to obtain proteins identification and function, making the characterization of both skin barrier function and superficial inflammation easier when paired with bioinformatics analysis.

<https://www.phylogene.com/> | Corporate and testing sheet: <https://skinobs.com/preclinical/labo.php?id=222> | Booth X32

Multi Substrates - Recommendation n°26 by Cosmetics Europe



It is since a few months Cosmetics Europe recommendation on the use of alternative methods to ISO 24444:2019. For the past few years, HelioScreen has been performing this test in order to evaluate the Sun Protection

Factor (SPF) which expresses the level of sun protection of a sunscreen product over the entire UV spectrum, using a multi-substrates approach (molded and sandblasted plates PMMA) on which the product has been spread and measured by means of a spectrophotometric method. This method allows for a higher correlation with in-vivo results and the product is exposed to UV light to account for any potential photostability.

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

Ecotoxicological Studies Using New Approaches by Expertox



In its «Toxic Free Environment» strategy, the European Commission wishes to propose new hazard classes and new criteria in the CLP regulation in order to fully take into account persistence, mobility and bioaccumulation. Ecotoxicological assessment is therefore a fundamental issue, which can now be based on the new methodological approaches (NAM), known as «non-animal approaches». These methods include in-silico, in chemico, in-vitro and ex-vivo methods and are based on mechanistic prediction models. This information can then be used in regulatory decisions regarding the use of chemicals.

When no in-vitro or in-vivo study results are available for a substance, it is possible to use some of these NAMs to predict the toxicity of substances. The «Read Accros» method is one of the tools that we have put in place to provide a global view of the toxicity of a substance, whether on the environment or health.

<http://www.expertoxcabinet.fr/> | Corporate and testing sheet: <https://skinobs.com/preclinical/labo.php?id=199>

AEVA-HE, New Technological Advance at Dr. Goya Análisis



Dr Goya Análisis incorporates the new AEVA-HE technology for its in-vivo efficacy clinical trials. This high-resolution 3D scanning sensor makes it possible to analyze and calculate objective parameters to assess changes in the skin, face and body morphology following a treatment or product application, based on a patented fringe projection unit combined with active stereometry. The AEVA-HE software, through the acquisition routine and the execution of automatic processing (not manual like other devices), allows measurements, data and images of the areas under study, to evaluate of scales and multiple zones. In combination with VisioHOP, which includes an infrared laser for positioning the volunteers, it provides the highest reliability and reproducibility in the study, both for facial and body areas.

<https://www.laboratoriogoya.com/> | Corporate and testing sheet: <https://skinobs.com/labo>

Environment and Lifestyle: Impact on Skin Health by Complife



Complife researchers keep developing their knowledge about the intrinsic and the extrinsic factors of the skin exposome. This new way of looking at the interaction of cosmetic products and the skin gives the opportunity to rethink the cosmetic testing methods. Complife can in

biochemical picture of what is happening inside our bodies as an explanation of the skin signs seen from the outside. This observation leads to even more consistent claims that goes in the direction of improving skin care and offer more relevant promises to the customer. To know more you can attend to Complife Speech at InCosmetics – 28th at 12.30, Theatre 1.

<https://www.complifegroup.com/> | Corporate and testing sheet: <https://skinobs.com/labo.php?id=33> | Booth AA39

Multi-ethnic Approach to Assess the Skin Function Barrier by IEC Group

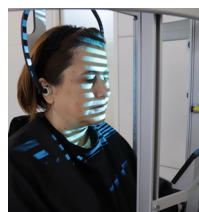


The cutaneous barrier is largely ensured by the epidermis, which plays at the same time a role of hydric, physical, anti-microbial barrier, and antioxidant photo-protective. IEC offers the possibility to evaluate the skin barrier function using direct or indirect measurements using the corneometer, tewameter, sebum meter, pH meter, C-Cube and/or by following biochemical tests such as TG, squalene, ceramide, NMFs, Microbiota performed on non-invasive samples. To demonstrate the soothing and repairing claims, the cutaneous barrier can be evaluated

damages. For a multi-ethnic approach, these tests can be performed in their 8 centers in France, Bulgaria, South Africa, Japan, Singapore, Korea or China.

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Assessing Skin Ageing by Zurko Research



Skin aging is a complex biological process that causes alterations on the skin's mechanical properties, such as skin firmness and elasticity. As a result, changes in face shape and contour are observed. Therefore, it is essential to have a device that measures changes in contour, shape and face sagging to study the effectiveness of the tested cosmetic products. This way, at Zurko Research we have the EvaFACE S5-3D together with DynaSKIN II, which is a novel device capable of not only sensing skin biomechanics with a high level of specificity, but also of successfully detecting the firming properties of a skin care routine. It is based on the use of non-contact mechanical pressure in combination with fringe projection to quantify and visualize the skin response in 3D.

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CONTACT US

contact@skinobs.com | www.skinobs.com

14 Avenue de Verdun
73100 Aix-les-Bains - FRANCE