

zoom #4

BY SKINOBS

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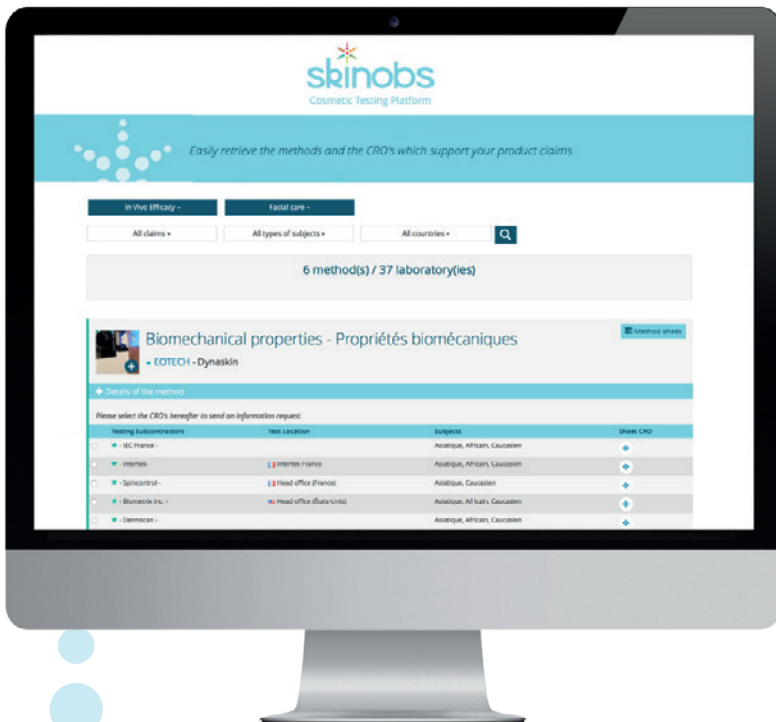
We will be pleased to welcome you booth 21 at Comet Symposium, 6-7th June.

In-cosmetics London was the good place to feel the evolution of the cosmetics market in Europe. The **anti-pollution conference** with Karl Lintner was a great success, sharing in vitro and in vivo methods knowledge to support this trendy claim, and the **microbiote evaluation** was the main topic on everybody's lips.

We also met scientists, marketing and R&D managers, and we were very glad to measure their satisfaction about the service provided by the Skinobs platform. Firstly, the accuracy of our vision about the worldwide cosmetics needs on testing support is confirmed. Secondly, our engagement in a collaborative way of sharing technological information is at least as important as the business improvement of the testing sector. This sector is dynamic and offers a high level of expertise at the crossroads between medicine, physics, chemistry and biology. In this newsletter, we will tell you about **SPF on human testing and biomechanical properties evaluation**. Then we will give news of our partner's in instrumentation and testing laboratories.

Happy reading!
Anne Charpentier, CEO

🔍 Discover 124 tests, 47 CRO's and 29 countries



Skinobs platform to enhance the testing knowledge

After referencing the major methods and CRO's for the efficacy claim substantiation, the tolerance testing and the main anti-pollution tests, we are now continuing with the innovative protocols.

Thanks to our **33 partnerships** signed with worldwide companies of the testing field, we keep improving the platform. Skinobs' vision is international with partners from France of course, Germany, Italy, USA, Korea, Canada, Colombia, India, Poland and Spain. We are proud to help you and the cosmeticians' community to develop more innovative and powerful products with **strong proof of efficacy**.

We are listening to your feedback to always enhance this incredible tool.

Do not hesitate to say hello at contact@skinobs.com.

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+1,200
REGULAR
USERS

36%
PAGES VIEWED*

+5'26"
AVERAGE SESSION
LASTING*

+60%
NEW VISITORS*

*First quarter of 2017

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SUN PROTECTION EVALUATION: A SENSITIVE ISSUE

Everywhere and whatever his skin phototype is, human should be protected from sun exposition. UVB and UVA on human evaluation represents the **2 unique cosmetics claims** which must follow the international norms. Since 1994 and the 1st in vivo SPF ISO norm, the harmonization between the worldwide regulatory authorities is still going on.

What about the claims?

Sunburn are mainly caused by the UVB while photoageing phenomena stems from UVA exposure. Sun protection are often multifunctional and their claims are various:

- **anti-sun spectrum:** UVB or UVA, infrared, broad spectrum, blue-light and water resistant...
- **suncare use:** anti-inflammatory, melanin booster, refreshing, anti-jelly-fish and repellent...
- **photoageing:** anti-oxydant, anti-free radicals, anti-aging, anti-dark spots, moisturizing...

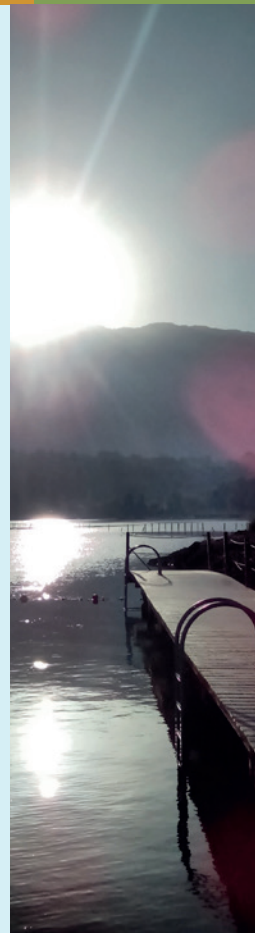
The world of suncare regulation, sometimes considered as cosmetics or pharmaceuticals, is shared in 7 regions: Asean, Australia, Canada, Europe, Japan, Mercosur, USA. In the European zone, the cosmetics regulation is applied following two norms:

- **ISO 24444 for SPF UVB index (2010 version)**, giving 4 categories Low (6 - 10), Medium (15 - 20 - 25), High (30 - 50), Very High (50+),
- **ISO 24442 for UVAPF (2011 version)**, which value is equal to 1/3 of the SPF.

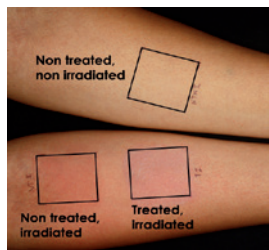
Beyond the product texture, its photostability and the filter nature, **4 main criteria** are necessary to implement the best test:

1. The subject inclusion and number
2. The application: homogeneity, quantity, spreading, control
3. The irradiation: source (Solar light, Abel Technology) UV spectrum, appliance calibration
4. The measurement: the MED definition, the reading

UVA and UVB protections are complex to measure and the good practices of the CRO's seem to be the key factors of the reliability of the results. Beside the norms, for your real-life sun protection, just keep in mind: apply a half palm of products 30 minutes before a gradual exposure, every 2 hours and seek the shade! Have a nice summer...



DermScan innovation, assessment of infrared protection



You wish to evaluate your **product's protection against infrared radiation**? DermScan has various methods to accurately measure its **preventive** action or **soothing** effect.

They offer a wide choice of in vivo measurements to visualize and/or quantify **skin microcirculation, rash** and **skin temperature**, such as:

- by using a polarized light spectroscopy method to evaluate red blood cell concentration. The lower this concentration, the higher the protection/soothing effect.
- by quantifying. As an example, they can quantify radiated heat that is related to skin's temperature with an **infrared thermal camera**. Measurements are contact free, non-invasive and in real time. They can also carry out skin samplings to realize **biochemical measurements of oxidative stress markers** antioxidant enzymes **SOD or MDA**, caused by UV radiations one of the end products of polyunsaturated fatty acids' oxidation. www.dermscan.com/photoaging-how-to-assess-it.

Spincontrol can measure the unconscious experience of skin hydration



Your skin never lies! Hydration is a very popular cosmetic claim. Skin tightenings, irritations and redness can appear when the epidermis is mishandled. These discomfort feelings can be objectively measured thanks to the **behavioral analysis of facial expressions** in terms of **muscle groups' mobilizations**. Volunteers apply the testing product in front of a one-way mirror. What happens behind the mirror? **A camera records each micro-movement of the volunteers**.

Then, these movements are analyzed by experts specialized in neuroscience, to provide an **index of tightness feelings**. Measuring the improvement of the comfort feeling by using a moisturizing product is now possible. www.spincontrolgroup.com

Eurofins reinvents clinical assessment of cosmetics make-up

Eurofins' clinical laboratories, headquartered in France, has developed in partnership with prestigious manufacturers, a wide range of out-of-the-box protocols to measure the performance of make-up. Their experimented project managers develop protocols based on the in-depth interpretation of customers' needs. Instrumental results are always compared to visual assessments by trained beauticians. Some examples of the Eurofins expertise:

- **Lasting** over time is objectively measured with high resolution image analysis. It enables to measure the colour persistence, shade, gloss, covering power, sharpness of the eyeliner or lip contour, homogeneity of the eye shadow, etc.
- **Resistance** of make-up to environmental conditions is a hot topic in Eurofin's agenda. Kiss-proof lipsticks, sweat-proof foundation, water proof, etc.

- **Embellishment** compiled (image analysis, fringe projection, colorimetry) assessments of lengthening, curving, volumizing, "eye-opening", radiance, dark circles, eye puffiness, plumping effects, etc.
- **Care effects** substantiation for make-up cosmetics is a complementary assessment which can include SPF, anti-pollution, eyelashes growth, anti-cold, moisturizing, etc. www.product-testing.eurofins.com



BIOMECHANICAL PROPERTIES FOR ANTI-GRAVITY EFFECT

Biomechanical properties by Skinobs



7 METHODS



37 CROS
26 COUNTRIES



6 DEVICE
MANUFACTURERS

Personal care products offering an efficacy on the skin biomechanical properties are often linked to anti-ageing claim category. These products are associated to various functionalities, such as **lifting, firming, refreshing, remodeling, plumping, resculpting, restructuring or tonic**. "Firmness" cosmetics care enhances the **density of extra-cellular matrix** of the dermis which depends mainly on the quality and the organization of the elastic and collagen fibers. This matrix is globally managed by the fibroblasts, producing the components necessary for its degradation, renew and organization. The cosmetics final objectives are the maintain of an optimal skin: resistant and elastic.

The biometrological assessments are designed to measure the elasticity and the firmness of the dermis. A **real-time deformation** using several techniques - ballistometry, suction, indentation or air flow - is implemented one or several times on the skin surface. Then, the biomechanical behavior induced is measured trough optical or fringe projection principle.

The claim can be supported by direct biometrological methods such as:

- Dynaskin by Eotech and Orion
- SkinFlex by Orion
- Ballistometer by Dia-Stron
- Cutometer and Cutiscan by C+K
- Elastimeter by Delfin
- DermaLab Elasticity by Cortex

Or also with indirect measurements which give information on the:

- **volum:** AEVA-HE by Eotech
- **dermis size and shape:** DUB®SkinScanner, Dermascan, Dermcup
- **skin aspect:** C-Cube, DermaTOP, Antera 3D, Videometer
- **fibroblast morphology:** Vivascope®, MPT Flew, Vivosight

It seems that the evolution of technology and its digitalization may give the direction of non-contact and optical solutions. Today, the simple use of a photo is not yet viable to evaluate such skin change. Maybe soon!

VivaScopes®, a window into the dermis



VivaScopes® are confocal laser scanning microscopes, which open a «window into the skin». This innovative imaging process provides a non-invasive view into the epidermis and superficial dermis - in a pain-free, uncomplicated and quick manner. VivaScopes® make it possible to easy depict cellular structures of living tissue in real-time without any invasive biopsies. This method allows cosmetic researchers to document skin changes in an area of up to 8 mm x 8 mm, precisely and quickly. For example, fibroblasts can be visualized as well as other elements of the extra-cellular matrix. www.vivascope.eu

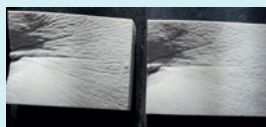
Dermatec innovates with the SkinFlex® and the new C-Cube



Dermatec, a dermatology, cosmetology and biometrology clinical research unit

based in Lyon Hospital, welcomes you to bring innovation in your clinical projects. It is the 1st center to use the SkinFlex®, an innovative device recently developed by Orion Concept. This is a new mobile and autonomous probe, easy to use, allowing to put into evidence the biomechanical properties of the skin (firmness, tonicity, elasticity) before and after using a cosmetic product, without any contact (depression due to an air jet) and giving an illustrative effect. Moreover, Dermatec disposes now of 2D and 3D high technology of C-Cube dermoscope, to assess efficacy of cosmetic product as anisotropy of the skin: calculation of angle of RmD to assess the restructuring of the skin. Agnès Lavoix, manager of the cosmetics BU, can give you advice for your next claim substantiation. www.dermatec-lyon.com

See and touch the 3D prints by Eotech at COMET booth10



Eotech company introduces for the first time related product to its 3D measuring instruments. 3D data are the best to illustrate product effect and can be transformed now into 3D prints. A specific 3D printer, using a French developed high resolution DLP technology combined with a special polymer, was used to produce high resolution and robust 3D print. 3D data were directly used with a 1.5 magnification to produce these prints. www.eotech.fr



SKINOBS:
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Partners key figures

5

Spincontrol's testing centers in the world

7

anti-infrared tests by Dermscan

7

Intertek's locations in the World

50

referenced customers by Dermatec

132

efficacy devices by I.E.C Group

400

tests since 2015 by Delivery Technologies

13,500

panelists appointment by Cerco in 2016

30,000

online surveys by Le Sphinx

37,000

volunteers panel over Europe by Eurofins

Agenda



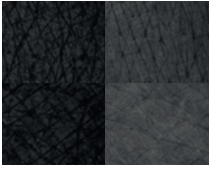
Scientific Day for Tissue Engineering SFBMec - CED Lyon - October 3rd, 2017



11th SF2IC's Congress October 22-24, 2017 Marrakech - Marocco

Follow the cosmetics testing news:
www.skinobs.com/news

Cerco evaluates the de-asphyxiating power of cosmetics



The harmful effects of pollution on the skin are now well known. The air pollutants carbon monoxide especially induces cellular hypoxia. This lack of oxygen causes a slowing of the metabolism of the skin: the complexion becomes dull, the skin dries, the aging begins prematurely.

Minimizing direct contacts between skin and pollutants and cleaning the skin to get rid of these toxic particles are ways to fight the harmful effects of pollution.

Two approaches to the Cerco allow to study the anti-pollution effects:

- following transcutaneous oxygen through the measurement of the oxygen partial pressure (TcPO₂) via an electrode and a redox reaction,
- evaluating the cleaning power of the products with particles of carbon through image analysis. www.cercotests.com

Since 8 years, Delivery Technologies provides testing services in Colombia



Delivery Technologies is a research and development center with over 8 years of experience that offers safety and efficacy tests for cosmetic and dermatological products.

They have the most high-tech equipment and highly trained health personnel to develop new assessment methods and offer innovative alternatives that allow them to establish the company as the main support for the national and international cosmetic industry. Some of their studies include: dermatologically tested, hypoallergenicity, comedogenicity, ophthalmological safety, gynecologic safety, comedolytic, sun protection factor and water resistance, in vitro UVA, moisturizing, sebum regulation, skin firmness, tensor/lifting effect, dermal density, wrinkles depth/expression lines, lightening, TEWL, cellulite, pH, color, gloss, smoothness/roughness, anti-dandruff, hair thickness, scalp tissue/cuticle, among others.

www.deliverytechnologies.com.co

Sphinx, the survey software reference, specialized in tester panel management



Backed by 30 years of experience, Sphinx is a must-have solution for consumer, use

and sensory testing management. With Sphinx, all types of surveys (35 question types) can be designed and sent out via web, mobile, social media, paper, etc. The collected data is then analyzed automatically or on a custom base to optimize reporting.

The increasing use of those solutions in cosmetics in the last ten years has encouraged Sphinx to specialize itself in 2 areas: the management of volunteer panels and the processing of customer feedback.

- Sphinx Community, the volunteer management solution, enables laboratories to use a unique tool not only for recruiting testers, qualifying (500 criteria) and selecting them according to their availability and characteristics but also sending them screeners, tests by mail, paper, telephone and remunerating them.

- Sphinx Quali, the feedback analysis solution, detects the orientation and themes mentioned in the open-ended questions of the surveys. www.lesphinx.eu

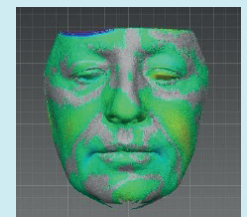
Intertek, Clinical Research Services Paris, welcomes new ophthalmologists for clinical tests!



To meet the challenge of the market place, evolving and ever-changing consumer needs, high quality and effective evaluation of products is essential. Clinical testing of your beauty and personal care products is indeed playing a key role in substantiating the product claims for packaging and advertising. It also ensures that products are safe and effective for consumer use. Product claims need to be supported by robust evidence as consumers become more demanding and advertising authorities become more vigilant. In this context, the Intertek's team of clinical testing experts is pleased to announce the integration of 3 additional ophthalmologists! Beside the benefit of products acceleration development contribution, this will give an additional access to specific expertise in this field for: discussion/brainstorming on innovative clinical tests, bespoke protocol management development for cosmetics, beauty or personal care products, customized training session...

www.intertek-france.com/etudes-cliniques

May 2017: IEC proposes the AEVA-HE system



The AEVA-HE system (Bruckmann-Eotech) is based on a fringe projection technique combined with stereometry (reconstruction of the whole face by alignment of acquisitions of both half-faces) allowing a high-resolution 3D scan to evaluate the anti-aging/plumping effects on the face: lines, volumes (eye bags, cheekbones, cheeks), oval and sagging of the face.

www.iecfrance.com

Skinobs map: a worldwide view of CRO's location



They have placed their trust in us

Académie - Aesop - Aiglon - Seppic - Akott - Ales Groupe - Alpol - Aseptia - Avon - Basf - Bayer - BCM - Beiersdorf - Bioderma - Biolie - Boots - Bulgari - Capsum - Cattier - Chanel - Clariant - Clarins - CLR - Codif - Coptis - Cosmebio - Coty - Croda - Dipta - DSM - Dupont - Evonik - Expanscience - Exsymol - Fiabila - Filorga - Arome Pacific - Galderma - Gattefosse - Greentech - Givaudan - Groupe Bateau - Panther - SVR - Guerlain - Hermes Hormeta - Idbio - Inderma - Ingrid-Millet - Isdin - Johnson & Johnson - Kanebo - KDC - Kialab - Kobo - Laboratoire Gilbert - Laboratoires Genévrier - Laboratoire Rivadis - Lea Nature - Lipoid - Lipotec - L'occitane - L'oréal - Make Up For Ever - Marionnaud - Mavala - Merck - Mibelle Multitaler - Naos - Natura - Naturex - Nikkol - Nuxe - Omega-Pharma - Oriflame - Payot - Procter & Gamble - Philips - Pierre Fabre - Provital - Puresentiel - Rahn LVMH - Romy - Paris - Rossow - Sanofi - Sederma - Sensib - Sephora - Shiseido - Shoys - Sicaf - Silab - Sisley - Solabia - Sothys - Strand - Symrise - Syntivia - Thalgo - Thor - Version Organique - Weckerle - Yves Rocher - Yves Saint Laurent...

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