

# zoom #2

BY SKINOBS

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For its 2<sup>nd</sup> show at Cosmetagora [booth 186], Skinobs is glad to offer you a review of brief and spontaneous news regarding the database development. We are still focused on in human biometrological testing to support cosmetics claims. We will tell you about **anti-pollution objectivation trends**, give you news of our partner's in instrumentation and testing facilities. Moreover, **depigmenting** remaining one of the central topics of the facial care claims, we will synthetize the present biometrological approaches.

Happy reading !

Anne Charpentier, CEO

## Skinobs, a unique platform dedicated to claim substantiation

After referencing the major and standard devices and methods in the database, we are now continuing with the newer ones. Our aim is to propose you the latest methods and the corresponding CRO's to give you answers about innovation in cosmetics objectivation. Direct contact is established with the stakeholder's, spin-off and R&D departments to gather essential information about **new testing expertise**. Our approach still remains collaborative, integrating new elements to build an updated and easy-to-use tool, useful to all cosmeticians.

**Free access** to the Skinobs database enables you, for a specific claim, to:

- identify the methods and the relevant CRO's,
- select **3 advanced search filters to personalize your results**: technology level, novelty level and types of results,
- find details and description for each method.

The Skinobs platform is open to worldwide players and proposes regularly new international CRO's and instrumentation companies involved in in human efficacy testing. The data are directly collected from these companies and validated with them. **Two new sections will come soon**: consumer testing and in human tolerance assessment.

## What's inside?

Skinobs database is designed for all cosmeticians involved in claim substantiation and provides more than **95 method descriptions** and more than 35 CRO's details.

3 main things to remember to accelerate your search:

- find a CRO in a specific country to implement your selected method,
- select the types of subjects in accordance with your launch specifications: Caucasians, Asians, Africans,
- very good news: you can contact us at any time, directly for your specific requests, via [contact@skinobs.com](mailto:contact@skinobs.com).

Just keep connected as we continuously reference new devices and CRO's. Our registration work is always under progress!

## Statistics of Skinobs traffic

**+900**  
REGULAR  
USERS

**+2,000**  
PAGE VIEWS  
PER MONTH

**+4'40"**  
SESSION  
LASTING

**+45%**  
WORLDWIDE  
TRAFFIC

CONNECT

[WWW.SKINOBS.COM](http://WWW.SKINOBS.COM)

# ANTI-POLLUTION TESTING TRENDS

**What methods have the cosmeticians today to assess the performance of their anti-pollution cosmetics or actives?**

The era of air pollution has now started and it is unfortunately a major environmental risk to public health in the worldwide megacities. The pollution components are well characterized!



**What are the numerous and various effects of these elements on the skin physiology in the short and medium term?**

The list of the disorders caused is too big: toxins accumulation, barrier function alteration, spots increase, proteins lipids and DNA oxidation, pH [acidity] modification, inflammation, pores occluding...

The skin damages could be summed up in 3 words: **aging, dark spots and sensitivity**. Thus, the anti-pollution activity of cosmetics to keep the skin pure has **3 main objectives: skin detox, rebalance the skin and isolate the skin**.

To evaluate the anti-pollution efficacy of cosmetics, the claims linked to these 3 aims can be measured on subjects before and after a day spent in a polluted city. We can objectivate with the classical devices all these claims: cleansing, detoxifying, purifying, soothing, oxygenizing, sebo and pH-regulator, soothing, moisturizing, nourishing, anti-UV, anti-oxidant, anti-free radical... [See Skinobs database on [www.skinobs.com](http://www.skinobs.com)]. CRO's like Cosderma, Dermscan or Spincontrol conduct anti-pollution testing in polluted cities such as Bangkok, Jakarta, Mumbai or Wuhan.

For a specific anti-particles claims the following methods can be implemented in situ or under standardized pollution conditions:

- heavy metal analysis by Cosderma, Dermatec and Spincontrol,
- particles visualization by Dermscan,
- adhesion of carbon particles by Cerco,
- lipid peroxidation and alteration by Lipotype and Spincontrol,
- proteins oxidation by Oxiproteomics.

## Interest to test your institute skincare



At the origin, the Cerco was a chemist, a cosmetologist, a dermatologist and a beautician. For 40 years, it has always kept beauticians in the team, for their expertise in the products application requiring a repeatable application [makeup specificity]. Also, they put their skills to the service of the Institute brands wishing to study their future care.

Trained in gestures of each brand, they provide their care to check the good tolerance but also the efficacy of the different skincare association. Cerco also validates the good tolerance for the beautician who manipulates these product associations several times a day. The benefits of these treatments are so valorised scientifically for the partner institutes, beauticians and the final clients. Their technical platform is at the service of the claims whether for a single treatment or a cure, for face or body care. The subjective appreciation of volunteers and the beauticians feedback on the care implementation complete the possible testing services. [www.cercotests.com](http://www.cercotests.com)

## Lipidomics to support the anti-pollution and anti-aging claims

The advent of shotgun skin lipidomics allows quick identification and quantification of human stratum corneum and sebum lipids sampled via tape-stripping. For the first time, the influence of pollutants, as well as age, on many skin lipids could be investigated on hundreds of samples within just weeks.

Lipotype Shotgun Skin Lipidomics routinely covers 16 individual lipid classes [all 12 ceramide sub-classes, di- and triglycerides, cholesterol and cholesterol esters] on the level of lipid species [e.g. TAG 54:0;0] or subspecies [e.g. AS 10:1;2/16:0;1]. In skin samples Lipotype typically discovers and quantifies 150 – 250 individual lipids.

Lipotype uses Lipotype Shotgun Skin Lipidomics without time consuming chromatographic separation of lipids before analysis. This technology is highly reproducible, with the median coefficient of variation for quantified lipids 7.4% and 86% of all lipids having their CV lower than 15%.

[www.lipotype.com](http://www.lipotype.com)



## What does «SPF» really mean?



Sun protection products represent a large sector of the cosmetics industry. They block UVA and UVB light from damaging the skin and contain substances, that filter or block UV light, so-called "sun protection factor" [SPF]. The SPF value indicated on sun protection products is based on in vivo tests on humans and in vitro [UVA] on PMMA plates. The Hamilton laboratories offer sun products testing using solar simulators [Solar

Light] and provide photo-toxicity and photo-allergy in vivo tests. They also propose a variety of tests to prove the efficacy of sunscreens and cosmetics and their compliance with relevant European and international legislation, including challenge tests, patch-tests, safety assessments, cosmetics notification and other services. [www.hamilton.com.pl](http://www.hamilton.com.pl)

# SKIN COLOR FOR DEPIGMENTING CLAIMS

The skin pigmentation attention is one of the most shared skin characteristics in the world. It evolves over time in various ways according to the several ethnic, social and cultural communities. And when it's time to consider external influences, such as UV or pollution conditions associated with whitening or lightening activities, skin color becomes a real challenge for the objectivation manager.

## What are the present approaches and devices available to evaluate the skin color changes during in human testing trials?

The skin color analysis is naturally implemented in the reflectance spectrum of the skin from 400 to 700 nm. The several devices use different light emission parameters: wavelengths, source of light (Xenon, Leds) and directions. Generally, the quantity of emitted light is defined and the quantity of light absorbed by the skin is also calculated. The color measurement is based on the evaluation of the 3 main and well-known color components : L\* (lightness from black to white), a\* (green/red axe) and b\* (blue/yellow axe). The ITA (Individual Typology Angle) can also be calculated.

The color measure is easy, fast, reproducible and well-established: C-Cube, Chromameter, Spectro-colorimeter, Colorimeter, DermaLab DSM II skin colorimeter. For erythema, hemoglobin and

melanin evaluation, specific wavelengths are used to avoid other color influences:

- Mexameter® MX 18
- SkinColorCatch
- TlVi 70 Skin Colour Tracker

## Another objectivation opportunity is based on skin image acquisition and data treatment:

- Antera 3D®
- SIAScope
- Visia-CR
- Visioface

Finally, alternatives of classical skin color measure are given by high-tech visualization of melanin by confocal microscopy, Quality of Life evaluation and of course, all skin video microscopes.

**Thus, the challenge for the evaluation of depigmenting, whitening, lightening or anti-spots claims is big, ask your CRO for the dedicated device and protocol.**

## Skin color by Skinobs



16 methods



31 CRO's located in 25 countries



More than 16 devices manufacturers

## Cosderma has launched its new website!



Within 12 years of cosmetics testing experience, Cosderma helps their customers in demonstrating the safety and efficacy of their products. Their international expansion in China gives the possibility to test cosmetics on Caucasian as well as on Asian panels. The testing laboratories offer a unique level of equipment and technical expertise to evaluate the efficacy of cosmetics, dietary supplements or medical devices. Their new website provides detailed information on solutions to support customers' claims. It gives an overview on their technological devices and expertise for cosmetics testing, to know more about the techniques in respect to emerging claims. [www.cosderma.com](http://www.cosderma.com)

## Japan Evidence Based Association - Tokyo



Evidence based cosmetic (EBC - cosmetic products scientifically proved and evidence function) is a worldwide trend. By promoting EBC, JEBCA aims at supporting further progress of cosmetic science as well as providing access to more reliable evidence base information to the consumers. They search, evaluate and widely distribute EBC information and knowledge. Thus, they contribute to beauty, health and furthermore, the quality of life of people. Contact: Dr. Akira Date, [date.a@ebc-japan.com](mailto:date.a@ebc-japan.com), [info@ebc-japan.com](mailto:info@ebc-japan.com).

## Our partners key figures

25<sup>th</sup>

Spincontrol anniversary

40

years of skin objectivation by Cerco

65

years of Hamilton experience at your service

100

sensors sold worldwide by Eotech

200

various DermScan protocols updated per year

509

quantified unique lipids by Lipotype

3,000

subjects included in 12 years by Dermatec



## Agenda



Cosmetagora Paris

January 10-11 2017

The 1st French cosmetic show of the year. *[Meet us at booth 186]*



Comet Symposium Cergy-Pontoise June 6-7 2017

The unique scientific event dedicated to Cosmetic Measurement & Testing, organized by the Cosmetic Valley.

Connect for marketing intelligence to cosmetics & testing:  
[www.skinobs.com/news](http://www.skinobs.com/news)

## Research laboratory to guard the cosmetics quality and consumer safety



Iwona Sokolowska, head of DermScan Poland, performed a successful lecture at the 7<sup>th</sup> Congress of the world of the Cosmetics industry in Poland (November 2016). This topic, referred to the research carried out in DermScan Poland and stressed how important for both producers and consumers is a complexity of research: starting with microbiology, through in vitro, up to in vivo tests. The main benefits sought by customers: safety and guarantee of the high quality of the product. The producers are looking for simplicity of the tests' offer (one-stop shop), time and capital

saving, guarantee of compliance with European & world standards, building consumer awareness and finally increasing confidence in the producer, the possibility of entering international markets. These all benefits are only possible when are combined:

- microbiological tests: purity test, identification of microbes, challenge test,
- in vitro tests: skin /eye irritation, corrosion, sensitization... on keratinocytes, fibroblasts cells as well as on 3D reconstructed human epidermis or full thickness skin,
- in vivo tests: safety and efficacy assessment on subjects.

[www.dermscan.com](http://www.dermscan.com)

## Eotech, high-performance devices to analyze the skin relief



The technology of the skin relief measurement continues to evolve as well as the devices Eotech develops. In 2011, they introduced a new generation of 3D sensors in their analysis systems AEVA-HE and in the DermaTOP-HE in 2014. These devices combine the stereometry and fringe projection also called active

stereometry. The performance of these systems has led the team to generalize this technology to all their measuring devices EvaSKIN and EvaFACE introducing new active stereometry sensors with 2 or 5 million pixel cameras! Eotech offers the CRO's these new devices, each available in two versions S2 or S5 color or black & white:

- the EvaSKIN-S dedicated to local measurement of skin relief with a field of 125 mm can cover a wide field for a multi-zone analysis,
- the EvaFACE-S dedicated to the measurement of the face ageing with a field of 200 mm covers the full face while maintaining a sufficient resolution to analyse wrinkles & fine lines.

[www.eotech.fr](http://www.eotech.fr)

## Feel and see hydration with Spincontrol



Hydration is a very popular cosmetic claim, especially in winter. Skin tightening, irritations and redness can appear when the epidermis is mishandled by cold wind and heating. These discomfort feelings can be objectively measured thanks to the behavioural analysis of facial expressions in terms of muscle groups' mobilizations. Measuring the improvement of the comfort feeling by using a moisturizing product is now possible. Corneometry used to be the reference technique but

no illustration can be provided. Now, you can have parameters and images thanks to the MoistureMap® (penetration of the electromagnetic field) and the fringe projection. Rather than absolute moisture figures, the MoistureMap® indicates the distribution of moisturization on given skin surface. Thanks to the fringe projection, analysing the skin network is thus possible by observing the restructuring of the microrelief [anisotropy].

[www.spincontrolgroup.com](http://www.spincontrolgroup.com)

## Dermatec-Lyon offers customized services



Dermatec-Lyon is integrated in a medical and scientist environment and deals with the most serious partners in each step of project management (recruitment of special targets by specialists, medical & innovation expertise, e-CRF). In addition, with its long experience

in biomedical studies management, Dermatec-Lyon conducts all categories of study: interventional or not (preparation of submission file in conformity with the last decrees), standard to innovative (use-test with clinical evaluation & standard instrumentation to high-technology devices), including healthy subjects to patients presenting with dermatosis. [www.dermatec-lyon.com](http://www.dermatec-lyon.com)

## Skin Diag, a real time scientific diagnosis



Creative Biometric® of OTSTC company has developed a very innovative method based on the face biometric detection in real time. The actual version is composed of 17 parameters of one face photo analysis which includes the following skin and face

criteria: heterogeneity, radiance, roughness, wrinkles, hollow cheeks, tear through, lower face ptosis, eyes bags, pigmentation spots. The version for the claim substantiation is customized with a full data extracts. This diagnosis in real time is scientifically approved and is the result of 10 years of R&D in skin physiology, digitalization and cosmetics knowledge. This is a reliable tool, robust and unique in the world. [www.otstc.fr](http://www.otstc.fr)

## Sun care tests: a new season for Biophyderm



Based in Montpellier, Biophyderm is equipped with the UV solar simulator. With a strong sun expertise acquired with many trainings, the team is now ready to start a great sun testing season. The dermatologist selects adequate subjects among a panel of 3,000 volunteers to test new innovative sun care products. Biophyderm works

closely with its clients to release safe products on the market, from toxicology/regulatory support to claim substantiation. [www.biophyderm.net](http://www.biophyderm.net)

### They have placed their trust in us

Basf - Bayer - Berkem - Botanicchem - Capsum - Chemyunion - Clariant - CLR - Codif - Cosmo-ingredients - Covestro - DSM - Expanscience Exsymol - Gattefosse - Givaudan - ID bio - IFF - Impag - Lipoid - Lipotec - Lucas Meyer - Merck - Mibelle - Naturex - Nikko Chemicals - Nikkol - Ocealys - Provital Rahn - Robertet - Rossow - Sanofi - Seppic - Silab - Sollicbiotech - Thor - Unipex - Weckerle

Aesop - Ales - Alpol - Amore Pacific - Asepta - Avon - Biersdorf - Bioderma Boots - Chanel - Clarins - Coty - Esthederm - Eugene Perma - Expanscience - Galderma - Hermes Parfums - Hormeta - Ingrid Millet - Johnson & Johnson - KDC - Kiko - Laboratoires de Biarritz - Laboratoires Léa - Le Petit Olivier - Léa Nature - L'Occitane - L'Oréal - LVMH - Make Up For Ever - Maqpro - Marionnaud - Mavala - McPherson's - MNK - Multaler - Natura - Nuxe-Oriflame - Phillips - Pierre Fabre - Procter & Gamble - Rivadis - Sanofi - Shiseido - Sisley - SVR - Thalgo - Yves Rocher

### Contact Skinobs

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