

RESEARCH TRENDS

MICROBIOME – A NEW PERSPECTIVE FOR COSMETIC RESEARCH

S.M.Shanbhag

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We normally relate microbes to disease, infection and harm to living human being. What has to be understood is that we are part of extremely large universe of Bacteria. Some of them do cause infection and disease but vast majority of microbes has other beneficial functional role. In fact nearly 15% of our energy needs are met because of microbes in our system.

A healthy human being harbors nearly 100 trillion bacteria in their gut alone. This is ten times that of all the cells we have in human body. If we really understand this magnitude of this, we know that we are part of this ecosystem.

Total weight of microbes in our body is estimated to be nearly 1 to 3% of body mass. That means average adult human being carries around 2kg of microbes. It could be considered part of our organ. This load of microbes consumes sugars and starch within our system and releases metabolites which are part of our nutritional cycle.

Genetic elements of microbes have profound role in human existence. Joshua Lederberg was first person called it as MICROBIOME.

A Microbiome is all the microbes in a defined habitat, their interactions with each other and their interactions with the host.

The genome consists of all of an organism's genetic information encoded in DNA or RNA. Human Genome Study has revealed 23000 different genes which have specific genetic expression. Micro biome study is to find out



specific genes which are present in microbes which are our co habitants. It is believed that there are more than three million genes in our microbiome.

Human Microbiome project was launched in year 2008 by National Institute of Health (NIH) USA. It has launched this scientific project to identify the role of the human microbiome with disease and in maintenance of health.

RESEARCH TRENDS

This will certainly bring new insights to cosmetic formulators.

Skin Microbiome has specific contribution to protective barrier function, exclusion of pathogenic organisms, competing and generating key nutrients. It also has a key role in conditions like body odour, dandruff, acne, dermatitis, etc.

Skin supports a range of microbial communities that live in distinct niches. Hair covered scalp, wet armpits, body skin, or genital areas have distinct composition or flora of microbes. Studies characterizing the micro biota that inhabit these different niches are beginning to provide insights into the balance between skin health and disease.

In micro biology bacteria are classified into 100 large groups called Phyla based on their characteristics. Human microbiomes are dominated by four Phylas - Actinobacteria ,

Bacterioidetes, Firmicutes and Proteobacteria, each having their defined role.

Many nutrients required by human beings are produced only by bacterial enzymes. Certain complex carbohydrates can be digested only by bacterial enzymes. Lactose intolerance in some is because of lack of certain type microbes in their system. Gut bacteria is implicated to obesity and also malnutrition. Level of Formic acid in blood is linked to blood pressure. Predominant source of formic acid is gut micro biome.

Many auto immune diseases like Diabetes, Multiple sclerosis, Asthma, Eczema are linked Microbiome.

In the Human Microbiome research NIH researchers have identified more than 112,000 bacterial gene sequences, which they then classified and compared. The analysis detected bacteria belonging to 19 different phyla and 205 different genera, with diversity at the

species level being much greater than expected.

The study also showed that in healthy individuals, the greatest influence on bacterial diversity appeared to be body location.

For example, the bacteria that live in a person's underarm area are more likely to be similar to those in the underarm area of another person.

Researchers found that dry and moist skin had a broader variety of microbes than did oily skin. Oily skin contained the most uniform mix of microbes.

Ultimately the Microbiome research will throw light on some of the aspects imbalances of skin functions leading to problems like dry skin, oily skin, hyper pigmentation, hair loss, dark circles around eyes, Cellulites etc This will lead to new series of cosmetics and enrich the understanding in Cosmeceuticals.

S.M. Shanbhag is an independent consultant

INDUSTRY NEWS



L'Oréal opens new Research & Innovation centre in Mumbai

International beauty giant plans to invest Rs. 1000 crore over the next three years to research and innovate on Indian hair and skin care, and understand client expectations better.

Over 100 Indian scientists and researchers will work at the newly opened product development centre in Mumbai and the advanced research centre in Bangalore. Speaking at the launch, Jean Paul Agon, Chairman & CEO L'Oréal Paris said " The Indian beauty market is the fastest growing globally and will be

6th largest in the world by 2020, by which time L'Oréal hopes to reach 150 mn Indian consumers."

This is L'Oréal's first R&I Centre in India, and 6th the world. Present at the inauguration were Jean-Paul Agon, Chairman and CEO of L'Oréal, Pierre-Yves Arzel, Managing Director of L'Oréal India and Mohamed Kanji, Director of Research & Innovation for L'Oréal India among others.

Ethics Committees mandatory for clinical trials: Health ministry

Registration of Ethics Committees attached with the Clinical Trial Organisations for conducting clinical trials in the country has been made mandatory, according to Pharma Biz. The notification was recently issued by the Union Health ministry.

As per the notification, "No Ethics Committee shall review and accord its approval to a clinical trial protocol without prior registration with the Licensing Authority as defined in clause (b) of rule 21: Provided that any Ethics Committee existing on the date of commencement of the Drugs and Cosmetics (Third Amendment) Rules, 2013, who has already reviewed and accorded approval to clinical trial protocol, shall obtain registration within a period of forty-five days from the date of commencement of the Drugs and Cosmetics (Third Amendment) Rules, 2013".

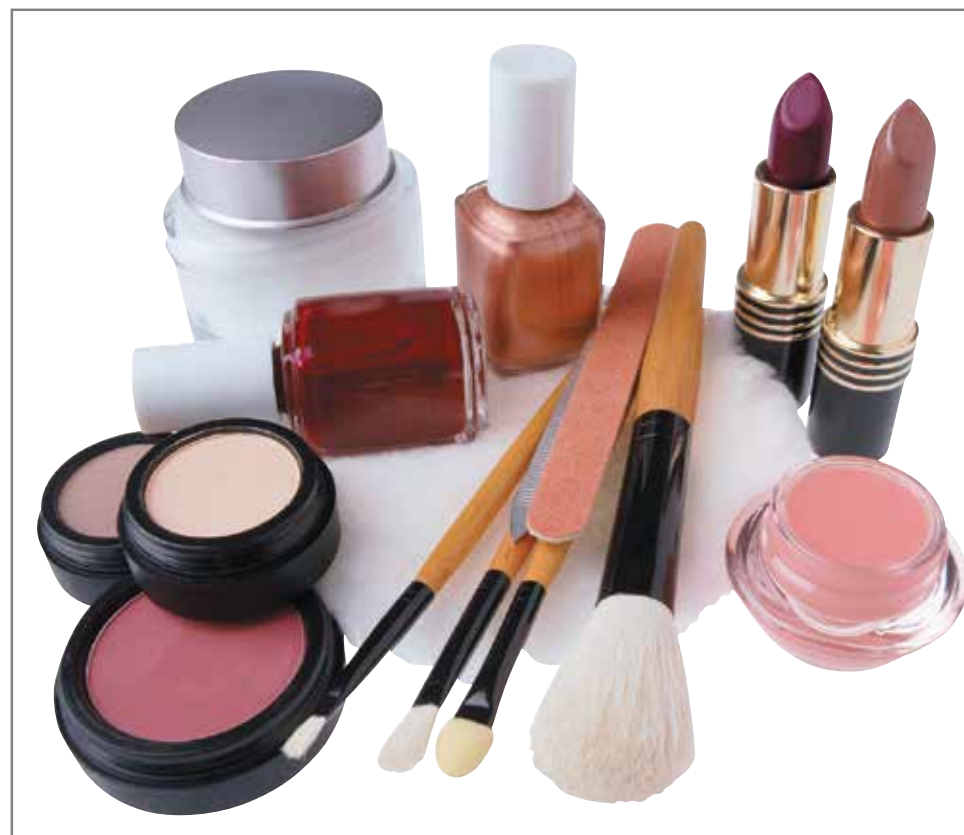
Unilever to build deodorant facility in India

The global personal care giant is set to open its first aerosol manufacturing plant in Asia at an investment of Euro 50 mn (USD 66 mn) in Khargaon, Maharashtra. Announcing this major investment during British Prime Minister David Cameron's visit to the HUL headquarters in Mumbai, the company said that the Khargaon plant is one of the 30 new factories being built by 2015. The plant will service demand from India and across South East Asia and will use superior technology to maximize energy efficiency and reduce waste water to zero.

REGULATORY AFFAIRS

IMPORT REGISTRATION OF COSMETICS

Benedict M. Mascarenhas



Import Registration of Cosmetics was first proposed through G.S.R. 426 (E) on 19th May 2010 as the proposed (4th Amendment) Rules, 2010. After debating over the same for a period of above 2 years, the registration is now likely to become mandatory from 1st April 2013.

What this implies is that after 1st April 2013, no cosmetic shall be imported into India unless the product is registered under the rules by the licensing authority appointed by the Central Government under Rule 22 or by any person to whom such powers may be delegated under Rule 22.

With a view to implementing the provisions of the aforesaid notification and facilitating the registration process for import of cosmetics, certain guidelines / clarifications,

including general requirements for grant of Registration Certificate have been issued by the Central Drugs Standard Control Organization (CDSCO). This information is available at the CDSCO website <http://www.cdsc0.nic.in/>.

Some of the important points to be kept in mind are as follows-

1. An application for registration in Form-42, along with all requisite documents, shall be submitted to Drugs Controller General (I), CDSCO, FDA Bhavan, Kotla Road, New Delhi 110002. The list of documents to be submitted along with the application has been mentioned in the guidelines.
2. A "Brand" for the purpose of Import Registration will mean each category

of cosmetic products as mentioned in Column 3 of the list enclosed at Annexure to the guidelines available at the CDSCO website.

3. Cosmetic products which are imported into India as bulk for repackaging for 100% export to other countries will not require registration certificate. In such cases the importer has to obtain necessary permission from CDSCO HQ. Importer must give written undertaking that these products are not released for domestic sale.
4. For Import of cosmetics for R&D purposes like packaging trials, consumer studies, shelf life studies and transport studies, registration certificate is not required. In such cases the importer has to obtain necessary permission from CDSCO HQ. Importer must give written undertaking that these products are not released for domestic sale.

Keeping the above in mind, it is important that importers of cosmetics complete submission of the documents at the earliest (and definitely before the 31st March 2013), as it is probably unlikely as of now that there might be any further extension to the deadline. At best there could be some provisions to accommodate the changeover process in terms of labelling for those who have already submitted their applications within the due date.

Those who had submitted their applications earlier, also need to review their applications in light of the current definition of brands and resubmit the applications if there are any changes.

The above information should help importers in making the appropriate decisions with regards to their imported cosmetics.

*Benedict M. Mascarenhas, CMD
EnvisBE Solutions Pvt. Ltd. is
Hon. Secretary ISCC*

ISCC EVENTS

PICASSA II 2013

Renuka Thergaonkar



The Indian Society of Cosmetic Chemists (ISCC) held its Annual Scientific seminar "PICASA 2013" and student poster showcase in the month of January in collaboration with cosmetic and perfumery department of KET's V. G. Vaze College, Mumbai. It is organized to promote student research in the cosmetic industry as well as provide advanced technical knowhow to the students and the industry personnel so as to help them increase their knowledge and utilise it in further research.

The theme for the seminar and poster competition this year was "Emerging Trends in Cosmetic Science". The seminar opened with a key note lecture by Benedict Mascarenhas (Director, EnvisBe Solutions, Mumbai) on 'Emerging Trends in Cosmetic Science'. The other presentations in the session included "Ecofriendly Packaging Trends" by P V Narayanan (Chief Executive IFCA), "Alternatives in Animal Testing" by Chaitanya Koduri (Scientific Advisor, PETA). The sessions were well attended by over 200 delegates. The session provided an informal environment where individuals participated through open question-answer sessions. The Seminar also had sessions by BASF, KET's Scientific Research Centre and Nishant Aroma.

The poster competition received an

overwhelming response from students. The total posters received were 85 out of them 45 posters were received in post graduate category, 10 in industry category and 30 in undergraduate category. The colleges represented included KET's V.G.Vaze College, Mumbai, Bhavan's College, Mumbai, Department of Biophysics, Mumbai University, LAD & Smt.R P College for Women, Nagpur, Nikalas Mahila Mahavidyalaya, Nagpur, Khalsa College, Mumbai, Institute of Chemical Technology, Mumbai, K . C. College, VES College of Pharmacy, Mumbai, Saraswati Vidya Bhavan's College Of Pharmacy, Bhavan's College, Patkar Varde College,

Smt. C. H. M. College, Mumbai. The posters submitted by industry included Marico Ltd, KET's Scientific Research Centre, Bhavan's Research Center, Andheri, Hindustan Unilever, Advanced Centre for Treatment, Research & Education in Cancer (ACTREC), Tata Memorial Centre, Laboratory For advance Research in natural & Synthetic Chemistry etc. The posters were judged by the eminent people from industry. The winners were awarded with cash prize and trophy. ■

Renuka Thergaonkar, HOD, Perfumery & Cosmetics Management at Kelkar Vaze College



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EVENT CALENDAR



COSMETIC AND BEAUTY INDUSTRY EVENTS 2013

HPCI 2013

MUMBAI, INDIA 28TH FEB & 1ST MAR

COSMETICS & DETERGENT CONFERENCE

MUMBAI, INDIA 28TH FEB & 1ST MAR

COSMOPROF WORLDWIDE

BOLOGNA, ITALY 8TH - 11TH MARCH

PCHI 2013

GUANGZHOU, CHINA
12TH - 13TH MARCH

CLEANING PRODUCTS EUROPE

PRAGUE 26TH - 28TH MARCH

IN-COSMETICS

PARIS, FRANCE 16TH - 18TH APRIL

LUXE PACK

SHANGHAI, CHINA
23RD - 24TH APRIL

FCE COSMETIQUE

SAO PAULO, BRAZIL 14TH - 16TH MAY

XXI COLAMIQC LATIN AMERICAN & IBERIAN CONGRESS OF COSMETIC CHEMISTS

SAO PAULO, BRAZIL 14TH - 16TH MAY

LUXE PACK

NEW YORK, USA 15TH - 16TH MAY

PERSONAL CARE SUMMIT

BANGKOK, THAILAND
15TH - 16TH MAY

SUSTAINABLE COSMETICS SUMMIT

NORTH AMERICA NEW YORK, USA
16TH - 18TH MAY

BEAUTY VISION INDIA

MUMBAI, INDIA 28TH - 30TH MAY

BEAUTY WORLD MIDDLE EAST

DUBAI, UAE 28TH - 30TH MAY

THE ORGANIC & NATURAL BEAUTY SHOW

LONDON, UK 2ND - 3RD JUNE

INNOCOS EUROPE & INNOCOS

PACK NICE, FRANCE 4TH - 6TH JUNE

2ND ASIA COSMETICS INNOVATION

SUMMIT

SHANGHAI, CHINA 5TH - 7TH JUNE

COSMETICS BUSINESS INNOVATION AWARDS

LONDON, UK 6TH JUNE

INNOCOS USA

NEW YORK USA 10TH - 11TH JUNE

THE FRAGRANCE FOUNDATION AWARDS

NEW YORK USA 12TH JUNE

HBA GLOBAL

NEW YORK USA 18TH - 20TH JUNE

MAKEUP IN PARIS

PARIS, FRANCE 20TH - 21ST JUNE

HEALTH & BEAUTY EXPO

CHENNAI, INDIA 21ST - 23RD JUNE

COSMOPROF NORTH AMERICA

LAS VEGAS, USA 14TH - 16TH JULY

4TH BEAUTY & SPA EXPO

N. DELHI, INDIA 30TH - 31ST JULY

NATURAL PRODUCTS EXPO ASIA

HONGKONG, CHINA 29TH - 31ST AUG

MAKEUP IN NEW YORK

NEW YORK USA 25TH - 26TH SEPT.

IFEAT 2013

SAN FRANCISCO, USA 29TH SEP - 3RD OCT

SUSTAINABLE COSMETICS SUMMIT EUROPE

PARIS, FRANCE 21ST - 23RD OCT

CENTIFOLIA CONGRESS

GRASSE, FRANCE 23RD - 25TH OCT

SUSTAINABLE COSMETICS SUMMIT, ASIA PACIFIC

HONGKONG, CHINA
11TH - 12TH NOV

COSMOPROF ASIA

HONGKONG, CHINA MID NOV

INTERNATIONAL BEAUTY MART

GREATER NOIDA, INDIA

14TH - 17TH NOV

Upcoming workshops from ISCC

April 2013

Perfumery Workshop

May 2013

Sensory Evaluation Workshop

July 2013

Photostabilisation of Sunscreens & Actives

September 2013

Workshop on Herbal Cosmetics

November 2013

Workshop on Hair Science

January 2014

Workshop on Skin Science

For participation please mail cosmeticchemists@yahoo.com

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