



# **World Congress Hair Research**

**Sitges, Barcelona**  
April 24<sup>th</sup> - 27<sup>th</sup>, 2019

**FINAL PROGRAM**



[www.barcelonahair2019.org](http://www.barcelonahair2019.org)

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OF SCIENTIFIC SESSIONS**  
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# WELCOME MESSAGE

*Hair diseases represent a significant portion of cases seen by dermatologists. In fact, the study of hair disorders has become one of the most important fields of dermatology nowadays. So, it is a great pleasure for us, three dermatologists, to be the organizers of the 11th World Congress of the Hair Research Societies in Barcelona.*

*During these 4 days we will have the best international hair specialists from all over the world to discuss and deliver the last knowledge on hair diseases.*

*Biologists, dermatologists, surgeons, and researchers from all areas of expertise will gather together in the greatest scientific event of the Hair Research world. During the last decade, the field of hair disorders has attracted many investigators and young dermatologists involved in clinical or basic research. In particular, molecular analysis of genetic hair disorders is developing rapidly. Trichoscopy has also emerged as an invaluable diagnostic technique for most types of alopecia. New approaches to therapy of common hair disorders have also made this subspecialty more attractive and have changed the tendency that we had at the end of the last century.*

*Dermatologists are in the enviable situation of being able to study many disorders with non-invasive diagnostic techniques. The hair is easily accessible to examination but, paradoxically, this approach is often disregarded by non-dermatologists.*

*We believe as organizers of the meeting that these days will be very useful for all attendees in their daily practice. The information delivered during this meeting will hopefully stimulate and encourage the cooperation between physicians and especially with dermatologists experienced in this important field of medicine.*

*We would like to thank all the support from the companies that have believed in our project and just to remind all of us that without them this would have not been possible.*

*Finally, we want to show our gratefulness to the scientific committee, the chairs, the speakers and the authors of the free communications. Their hard work was essential to create the abstract book.*

## The organizers:

**Prof. Ramon Grimalt**  
President



**Dr. Juan Ferrando**  
President



**Dr. Sergio Vañó-Galván**  
Secretary



# ABOUT SITGES

## Sitges is...

Sitges is located only 40 minutes away from Barcelona, and it's easily connected by car, train taxi or bus.

300 sunny days per year, 26 beaches, 3 sportive harbours, 5 museums, 1 natural Park, 1 golf course, more than 5.000 rooms in hotels, 29.000 citizens from more than 90 nationalities, more than 400 restaurants and shops, etc

## History and culture of Sitges

### History

The name Sitges comes from "Sitja", a pre-Roman word that means "deep hole or silo". Even before the Neolithic period, the first Sitgetans lived in the area known as the "cave point" (past the Terramar golf course) and the La Punta Hill, where the church and Town Hall are today. In the 18th century Catalonia obtained permission to trade directly with America. Only now the economy was in the hands of those trading in America (the Americanos period), who would return with their fortunes and purchase or repair the village's old houses. The town became a summer resort for the Sitgetan Americanos. As early as 1879, there are records showing that baths were already being used as medicinal therapy and spa enthusiasts directly became beach enthusiasts (1888). Sitges, situated near Barcelona, although still hard to access at the time, and a summer resort for many Sitgetan-Americanos, became a town for taking the waters. With the arrival of Santiago Rusiñol in 1891 Sitges became the cultural center of the modernistes. In 1909, thanks to Ramon Casas and Miquel Utrillo, Sitges was visited by Charles Deering, a North American millionaire who converted Fonollar street, with its characteristic fishermen's homes and the old hospital, into a palace. The Palau Maricel and Cau Ferrat (Rusiñol's house-cum-studio) became two culturally-attracting poles. Some years later, industrialist Francesc Armengol designed the Terramar garden city and the Passeig Maritim or Esplanade. Atracci3n de Forasteros (Tourist Attraction Company) was created in 1928 and the Tourist Information Office in 1934. From then on, Sitges would become a European tourism standard sette.





## Culture

Sitges is a coastal town that has always known how to protect its cultural and artistic values. The remains of the old medieval village are mixed with the legacy of the Americanos, the men and women who, returning with their fortunes from their American adventure, had large mansions built for themselves. In Sitges, there is still an air of the bohemian atmosphere inherited from versatile artist Santiago Rusiñol, who transformed it into the Mecca of Modernism. Since then, the town has aroused diverse artists and painter's interest, and today there is still a community of artists living here who exhibit their pieces at their workshops.

Since time immemorial, the town has attracted the interest artists and painters, and even today there is a whole colony of artists here who display their artwork at their studios. To discover its cultural wealth, all you have to do is take a walk around the streets in the center of town, the old city or the seafront promenade. And if you'd like to explore it more in depth, you can take a guided tour along the route of the Americanos (Spaniards who returned to Spain after making their fortune in Latin America) or the Modernism route. Another excellent option is visiting its 4 museums; Cau Ferrat, Maricel Palace, Can Llopi's Romanticism and the Pere Stämpfli Foundation.

## How far is Sitges from the airport?

### By car

Only 30 minutes travelling by car



### By public transport

When you get off the plane there is an easy way to get to Sitges. The PR1 goes from the terminal to the train station of El Prat de Llobregat, where you can catch the train (R2S) in direction of Vilanova i la Geltrú. Only 45 minutes later you should be arriving at your holiday destination.

# VENUE Hotel Meliá Sitges

- Overlooking the Aiguadolç marina, opposite La Marina and Balmins beaches
- 10 minutes on foot from the historic centre of Sitges
- Spacious, bright rooms with furnished terrace
- Outdoor pool set in gardens with wonderful open-air spaces
- Splendid breakfast buffet and excellent Mediterranean cuisine
- Excellent access to Barcelona airport, just 25km away. Only 30 minutes from Barcelona city centre





## Getting to Sitges from Barcelona Transportation by Taxi and Train

There are various options for getting to Sitges from the city of Barcelona. If you are travelling in the day you are most likely to wish to travel by train - the cheapest and quickest option.

### Getting to Sitges from Barcelona by Taxi

Sitges is located approximately 42 km south of Barcelona.  
A taxi journey will take about 20 minutes.

**Taxi fare:** 75,00 € - 85,00 €

### Getting to Sitges from Barcelona by Train

There are three main train stations in Barcelona that offer a service that runs to Sitges: Estacio de França, Passeig de Gracia and Estacio Sants. The C2 train travels from Franca to Passeig de Gracia to Sants and then on to Sitges. The final destination of the train is either Vilanova i la Geltru or St. Vincenç de Calders - these are the names that you should be searching for on departure boards and on the front of the train rather than Sitges.

### Price of the Train Ticket

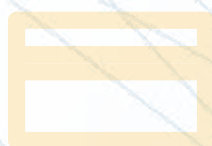
Train tickets can be purchased either from automatic machines or from ticket desks - you will normally find that it is quicker to use the machines. Although, they don't answer back, so take the time to join a queue for one of the ticket desks if you have any particular questions.

**Single Journey:** 4,10 €

**Return Journey:** 7,20 €

### Times of the train from Barcelona to Sitges

Trains to Sitges from Barcelona run approximately every twenty minutes, starting at (from Estacio de França) and finishing at (Barcelona Sants). The journey lasts 46 minutes from Estacio de França, 37 minutes from Passeig de Gracia and 30 minutes from Estacio Sants. Train times are subject to change - it is therefore best to check the Official Renfe website for more details - this is its branch for local trains, known as Cercanias.



# COMMITTEES

## HONORARY-PRESIDENT

Francisco M. Camacho

## PRESIDENTS

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M<sup>a</sup> Fernanda Gavazzoni

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Valerie Randall

Xingqi Zhang

Yuliya Ovcharenko

Yuval Ramot

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Cristina Serrano

Emilio Villodres

José Carlos Moreno

Salvio Serrano

Manuel Asín

### 2019 WCHR CONGRESS SECRETARIAT

Elena Lagalante

Núria Bosch

Natàlia Ribas

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### NEXT WORLD CONGRESS

MELBOURNE, 9-12 April 2021

## MAIN SPONSORS

**Aderans**

**ADERANS'S** selection of globally available products includes the men's line, ADERANS, the women's line, FONTAINE, BOSLEY, a hair transplantation service and HAIRCLUB, non-surgical hair restoration and hair loss prevention services. Our goal is to provide wigs and hair transplantation services for all walks

of life which are up-to-date with the times across a board spectrum of situational needs.

In the vein of our key words, fashion, style and expertise, we continue to renew the value of wigs as well as hair growth to all generations in our mission to become a universally acclaimed brand.

**CoNCERT**  
Pharmaceuticals Inc.®

**CONCERT PHARMACEUTICALS**, is focused on the discovery and development of innovative drug products that positively impact patients and address important medical needs. The Company's

pipeline of new medicines is rapidly advancing to offer innovative ways to treat a broad range of disease areas and includes CTP-543, a potential new treatment for alopecia areata.

**Pfizer**

**PFIZER** Inflammation & Immunology is dedicated to delivering innovative therapies for patients

who live with the day-to-day suffering of chronic inflammatory dermatological diseases.

**samumed**

**SAMUMED's** small-molecule drug platform is harnessing the innate restorative power of the Wnt pathway to reverse the course of severe and prev-

alent diseases. View Samumed's clinical pipeline: <https://www.samumed.com/pipeline/default.aspx>

## OTHER SPONSORS

**almirall**  
feel the science

**ALMIRALL** is a science partner with the aim of becoming a global leader in the fight against skin diseases and skin conditions. We provide health professionals and their patients' medical solutions - for disease prevention, skin care and skin improvement - that lead to a better future.

We partner with our clients to support continuous improvement in the skin health field and to provide innovative solutions where they are needed most. We're committed to helping those around us, understanding their challenges, and using science to provide them with real solutions.

**APS**

**APS** is an Italian company, with Italian technology that overlooks the world through the creation of an international network that supports the European area both on sales side and on assistance. We use an innovative online and off line system with

video tutorials through which we supply a rapid training on the use of our devices. In every moment and for every need, the operator can see again what he learnt during the training with the specialist and act accurately and promptly during the treatment.

**bioskin**®

**BIOSKIN** Your partner for dermatological trials Since its inception in 1992, Bioskin has been recognized as a valuable partner for dermatological product development. Starting as a small Contract Research Organization (CRO) specialized in conducting early phase safety and efficacy trials, Bioskin has grown into a full-service CRO offering global dermatologic consulting and regulatory services and all services for management of Phase I-IV drug trials and claim support/safety studies. Bioskin is headquartered in Hamburg, Germany. We are privately-owned. We are

unique in our understanding and capabilities for both early and late phase development of dermatological and related products. A core expertise is the development of innovative test designs, interpretation of study results, integrating biophysical measurement methods to deliver objective data about skin function and structure to support traditional clinical endpoints. For global early and late phase studies Bioskin partners with select, reliable partners throughout Europe, US, Latin America, Central & Eastern Europe and South Africa.



# COMMERCIAL SUPPORT



**CANFIELD SCIENTIFIC, INC.** The global leader in imaging systems, services and products for scientific research and healthcare applications,

including the pharmaceutical, biotechnology, cosmetics, medical and skin care industries.



**CAPILLUS** is a resource for those around the world battling hair loss, connecting patients to hair transplant surgeons and dermatologists for both surgical and non-invasive treatment options.

Capillus® caters to both women and men with thinning hair or at risk for thinning hair, a condition that affects up to 50% of adult women and 80% of adult men.



**CESARE RAGAZZI LABORATORIES** is an established leader in the field of scientific research into hair and scalp disorders, and the development of effective treatments. Since opening our first private clinic over forty years ago, we have treated

over a million clients from all over the world. Cesare Ragazzi Laboratories is a network of successful Centers in continuous expansion. There are Centers in over 30 cities in Italy and a dense network has been widening constantly in the United States.



**DSD DE LUXE** trichology products are especially formulated to treat hair and scalp concerns. All treatments combine a unique blend of active ingredients to promote hair growth, restore scalp conditions, even the most sensitive ones and

improve the structure of damaged hair. All products belong to the class of cosmeceuticals as they possess medicinal effects, but also give a feeling of pleasure and comfort that is characteristic of high quality cosmetics.



**DUCRAY** Since 1930, Ducray laboratories are specialized in taking in charge of dermatological disorders of the skin, scalp and hair, with the

promise of providing care that change the daily life, but also all services likely to restore or maintain a healthy physiological state.



**FAGRON** focuses on together create the future of personalized medicine with the aim of widening

the therapeutic scope of the prescriber to enable tailor-made pharmaceutical care.



**FIDIA** Fidia Thanks to its extensive experience in the clinical applications of hyaluronic acid and in the field of tissue regeneration, Fidia has taken up the challenge of promoting the new Hy-tissue®

line, featuring innovative, biological autologous treatments for aesthetic applications, including alopecia.



**LABORATORIO GENOVÉ S.A.** is a company specialized in the development, manufacture and commercialization of pharmaceutical and dermo-cosmetic products. GENOVÉ'S MISSION We strive to develop, manufacture and commercialize innovative products of high pharmaceutical quality

which are dermatologically accredited. GENOVÉ'S HISTORY Laboratorio Genové®, S.A. began operating at the end of the 19th Century (1898) in the well-known pharmacy of Doctor Genové, located on the Rambla de las Flores avenue in Barcelona.



**CANTABRIA LABS Celebrate Life** With innovative products and an entrepreneurial spirit, Cantabria Labs is a leading dermatological prescription brand in Spain with the objective of improving people's quality of life. Its presence in more than 80 countries and subsidiaries in China, Italy, Mexico, Morocco, and Portugal have provided it with a renowned global reputation. Cantabria Labs' production centers uphold the highest quality standards in

the manufacture and distribution of more than 30 million product units per year. Today, the company is highly regarded in the healthcare sector for its innovation and scientific backing and because of the closeness and entrepreneurial ability of its more than 800 employees. Cantabria Labs' DNA includes non-conformist, happy entrepreneurial genes, dedicated to providing society with products for a good quality of life: "Celebrate Life."



#### **ISDIN YOUR SKIN, OUR PASSION**

We are experts in skin with more than 40 years of experience in dermatology. Well established in Europe, Latin America and Asia. We provide a complete range of dermatological solutions with the highest quality standard. Our History. ISDIN was born 40 years ago in Barcelona, from the alliance between a global leader in fragrances and cosmetics and a benchmark pharmaceutical company with renowned medical products. The mission was to create a worldwide reference in skin health, treatment and beauty. Our company is today a market leader in the dermo-cosmetics segment in Spain and a reference in Europe, America and Asia. Life-changing innovation. Each ingredient has been meticulously chosen by our research team who scours medical and scientific

congresses looking for the latest discoveries that will make real breakthrough formulations. We strive to reach out to each person with meaningful innovation that will make a difference in their life, with a simple yet highly demanding model.

Results = Efficiency x Compliance. Results are the joint effect of an efficient product used correctly and with the appropriate frequency. Working closely with doctors and pharmacists is intricately sown in all what we do. Our Medical Advisory Board thoroughly oversees all new launches and continuously strives to improve the existing products in order to achieve maximum efficiency. Our expert laboratory team also works to innovate in unprecedented textures that will make product use easy and pleasurable, aiming for optimal compliance.



**LABORATORIOS VIÑAS** is a family-owned pharmaceutical company founded in Barcelona in 1911.

Specialising in the area of healthcare, it has continued the innovative, forward-looking vision of its founder, the pharmacist Pedro Viñas, by promoting research for new and original formulations. Through research, Laboratorios Viñas achieves the scientific and social objectives to which it has always been committed and meets today's increasingly demanding requirements for quality, safety and efficacy. Laboratorios Viñas researches, develops, manufactures and markets its drugs and pharmaceutical products in a wide range of therapeutic areas, especially dermatology,

gynaecology, paediatrics and general medicine. Laboratorios Viñas is involved in Spain's Research Promotion Plan, currently called the Profarma Plan, which is aimed at promoting competitiveness in the pharmaceutical industry.

In addition to research, diversifying its corporate activities into new areas of healthcare has been a key factor in the company's success as it has made it possible to win the trust of pharmacists, physicians and their patients. Today, a hundred years after the company was created, its founder's ideals of service to health and society still continue. They are an added value and the distinguishing feature of a company that now has a team of over 200 people.



**LEADM CORPORATION** specializes in hair restoration system.

Numerous years of extensive One-Step hair transplanter manufacturing experience have made LeadM an acknowledged pioneer of hair restoration surgery. LeadM is the authority on the One-Step Hair Transplanter and is the leader in Follicular Unit Hair Transplantation. Our Focus is to try and to accomplish a good system pursuing a Natural Hair Restoration. This instrument is for implanting follicular units to a bald area as scalp, pubic, eyebrow, eyelash and scar area without hair.

In case of Using this product, there is no need to make a recipient site hole like a Mess or Punch method. The 2-tasks to make a recipient site and placement of grafts is carried out by One-Step action. The most effective point of this product is that you can also exchange needle after One Session and can go on using the body of this product unlike the other Choi Hair Transplanter.

We sure that this product is the most advanced Hair transplanter among the other similar Choi Hair Transplanters.



**MONASTERIUM LABORATORY (ML)** offers state-of-the-art pre-clinical models in dermatology and cosmetic science, specializing in hair and skin biology and offers a clinical trial service.

ML also develops novel skin- and hair-targeting technology as part of a discovery program and is launching a skin and hair biology education programme in June 2019.

# COMMERCIAL SUPPORT



**P&G BRANDS** and products are used by over 5 billion people every year. At P&G we are committed to leadership, citizenship and innovation. For over 180 years we have been creating products that make a difference to peoples' lives in small but meaningful ways. P&G dedicates over \$1.9 Billion to scientific research annually through our network of Globally Innovation Centres in Europe, America

and Asia and through our partnerships with leading Universities, Research Institutes, scientists and medical researchers and practitioners' aim is to transform the everyday, so it's always more than ordinary - by making daily tasks a little easier, the experience of using products more enjoyable and creating proven solutions that deliver each time and every time [www.pg.com](http://www.pg.com)



**REGEN LAB** is a global leader in products for autologous regenerative medicine based on freshly prepared platelet rich plasma (platelet concentrate) from the patient's own blood, used either alone or combination with hyaluronic acid or other fresh autologous cells from the patient's fat or bone

marrow. These freshly prepared concentrates are safer and have longer lasting effects than traditional cell-therapy products, they accelerate healing and have proven efficacy in ageing management, wound care and musculoskeletal pathologies.



**REGENERACTIVA** is a company dedicated to the research, development and exclusive international distribution of products for regenerative medicine, Rigenera Technology manufactured by HBW being the most innovative and effective product in this field.

Rigenera is an exclusive and patented technique for obtaining autologous injectable Micrografts in a fast, safe and efficient way. As an exclusive global distributor, Regenera Activa offers continuous training on its different lines of application, giving support to its distributors, partners and users.



**SESDERMA** Founded in 1989 by Dr. Gabriel Serrano, Sesderma is a laboratory whose main aim is to care of health and well-being of people. This is attained through actively listening to the skin of our patients. Our motto, "LISTENING TO YOUR SKIN", is what defines us. Our company culture is driven by knowledge, the human touch and generosity.

- KNOWLEDGE. Technological advance and knowledge are at the heart of our ambition. Dermatology is our DNA.
- HUMAN TOUCH. We put people first.
- GENEROSITY. Dedication and commitment to customer satisfaction.



**SKYMEDIC** was founded in 2010 within the MedicalCluster business group, with more than 40 years of history. Currently, we are leaders in the

markets of dermatology, traumatology, aesthetic medicine, and gynecology with more than 50,000 devices installed in more than 28 countries.



**TRICHO LAB**, Foto Finder hair lab, provides doctors with complete trichoscopy solution for surgical and non-surgical treatment. Advanced software

algorithms with state-of-art hardware enable user to assess hair caliber, hair and graft density and other parameters both on non-shaved and shaved scalp.



**VENUS CONCEPT** is a global leader in medical aesthetics, offering cutting-edge devices to address the most in-demand aesthetic needs. Along with innovative technology, Venus Concept

and our recent acquisition of NeoGraft offers a unique business model with the first and only subscription plan.



**WISEPRESS** Medical Bookshop Wisepress.com, Europe's leading conference bookseller, has a complete range of books and journals relevant to the themes of the meeting. Books can be purchased at the stand or, if you

would rather not carry them, posted to you - Wisepress will deliver worldwide. In addition to attending 200 conferences per year, Wisepress has a comprehensive medical and scientific bookshop online with great offers. [www.wisepress.com](http://www.wisepress.com)



# NON-PROFIT Organizations



## THE INTERNATIONAL SOCIETY OF HAIR RESTORATION SURGERY (ISHRS)

Is an international, non-profit medical society comprised of over 1,200 members representing 70 countries - dedicated to promulgating the highest standards of medical practice and medical ethics. Member categories include fellow, member, associate member, adjunct (researchers), residents, and surgical assistants. Since its incorporation in 1993, a renaissance in hair restoration surgery was set into motion by the ISHRS. The multidisciplinary, international membership of the ISHRS is a critical mass for innovation in hair restoration surgery. The ISHRS provides continuing medical education to physicians and fosters an environment of open dialogue, sharing, and collegiality. The ISHRS gives the public the latest information on medical and surgical treatments for hair loss. The ISHRS

is accredited by the Accreditation Council on Continuing Medical Education and is a member of the American Medical Association's House of Delegates.

The ISHRS has published and maintains the Core Curriculum in Hair Restoration Surgery and the Core Competencies for Hair Restoration Surgeons. The ISHRS also provides annual research grants to relevant clinical research projects directed toward the subject of hair restoration.

The ISHRS's pro bono program, Operation Restore, was initiated in 2004 and matches volunteer ISHRS physicians with prospective hair restoration patients suffering from hair loss as a result of trauma or disease who lack the resources to obtain treatment on their own. The program has provided over \$630,000 USD of free surgery and travel expenses.



## ALOPECIA UK

Alopecia UK is a charity working to improve the lives of those affected by all types of alopecia through aims of Support, Awareness and Research. Founded in 2004, we work to help men, women and children affected by alopecia. We are a small charity working nationally across the UK. Despite being small, we are the largest alopecia charity in the UK and have grown significantly in the last six years, since introducing a staff team and head office. Alopecia UK's workstreams revolve around its aims. We facilitate peer support through local support groups, online platforms and national

events, as well as individual email and telephone support. We increase awareness by educating the general public and health professionals about the psychological impact of alopecia. We do this through events, conference attendance, talks and utilising both local & national media. In recent years we have completed a Hair Loss Priority Setting Partnership and have since funded various adhoc research projects. In 2018 we introduced our first Research Pots Grant Scheme, offering up to £10,000 for alopecia research projects. At the same time we also set up our very first Research Committee.



## THE NATIONAL ALOPECIA AREATA FOUNDATION (NAAF)

Is widely regarded as the largest, most influential and most representative organization dedicated to improving the lives of individuals with alopecia areata: an autoimmune skin disease causing hair loss with a cumulative lifetime incidence of 2.1% which translates into 147 million people worldwide who have, had or will develop alopecia areata at some point in their lives. As a 501(c)3 nonprofit,

NAAF funds research to find a cure or acceptable treatment for alopecia areata and related diseases, supports those with the disease, and educates the public about alopecia areata. Founded in 1981, NAAF is governed by a volunteer Board of Directors and guided by two prestigious Research Advisory Councils. NAAF has been a key driver of alopecia areata research for over 30 years and is dedicated to finding an effective treatment or cure for all those affected by the disease.

# HAIR RESEARCH SOCIETIES

We gratefully acknowledge the contributions and affiliations of the Hair Research Sister Societies

## • INTERNATIONAL FEDERATION OF HAIR RESEARCH SOCIETIES

*Chair:* Wilma Bergfeld (AHRs)

*Secretary:* Victoria Ceh (AHRs)

*Immediate Past Chair:* Gill Westgate (EHRs)

*Includes the following member societies*

## • AMERICAN HAIR RESEARCH SOCIETY

*President:* Maria Hordinsky

*Secretary:* Antonella Tosti

## • AUSTRALASIAN HAIR AND WOOL RESEARCH SOCIETY

*President:* Rod Sinclair

*Secretary:* Leslie Jones

## • EUROPEAN HAIR RESEARCH SOCIETY

*President:* Bianca Maria Piraccini

*Secretary:* Claire Higgins

## • KOREAN HAIR RESEARCH SOCIETY

*President:* Hoon Kang

*Vice President:* Gwang Seong Choi

*Secretary:* Moon Bum Kim

## • SOCIETY FOR HAIR SCIENCE RESEARCH (Japan)

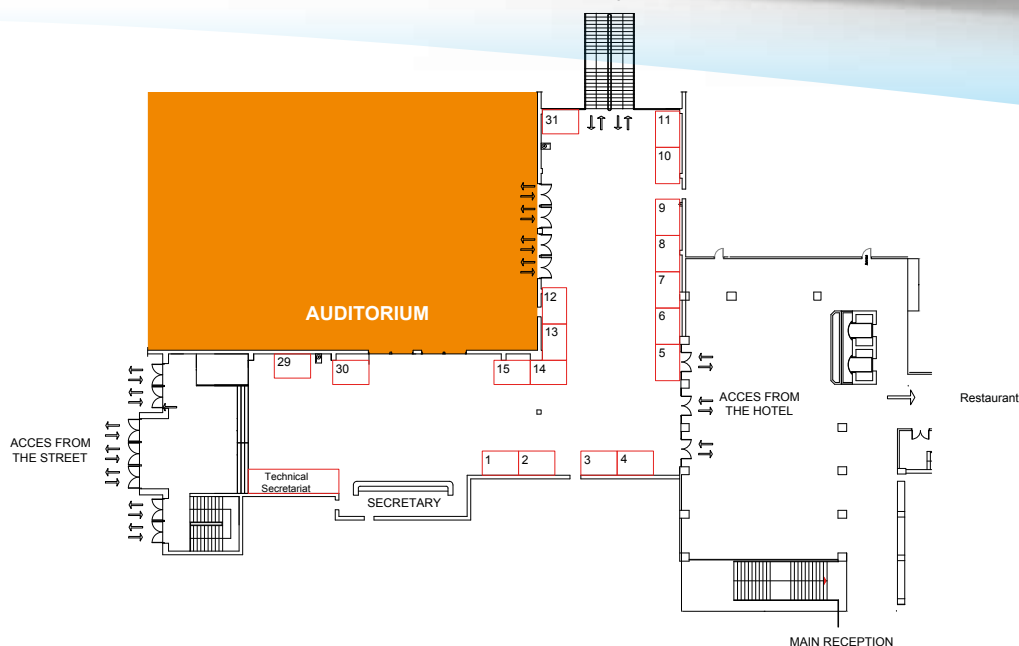
*President:* Manabu Ohyama

*Secretary:* Yutaka Shimomura

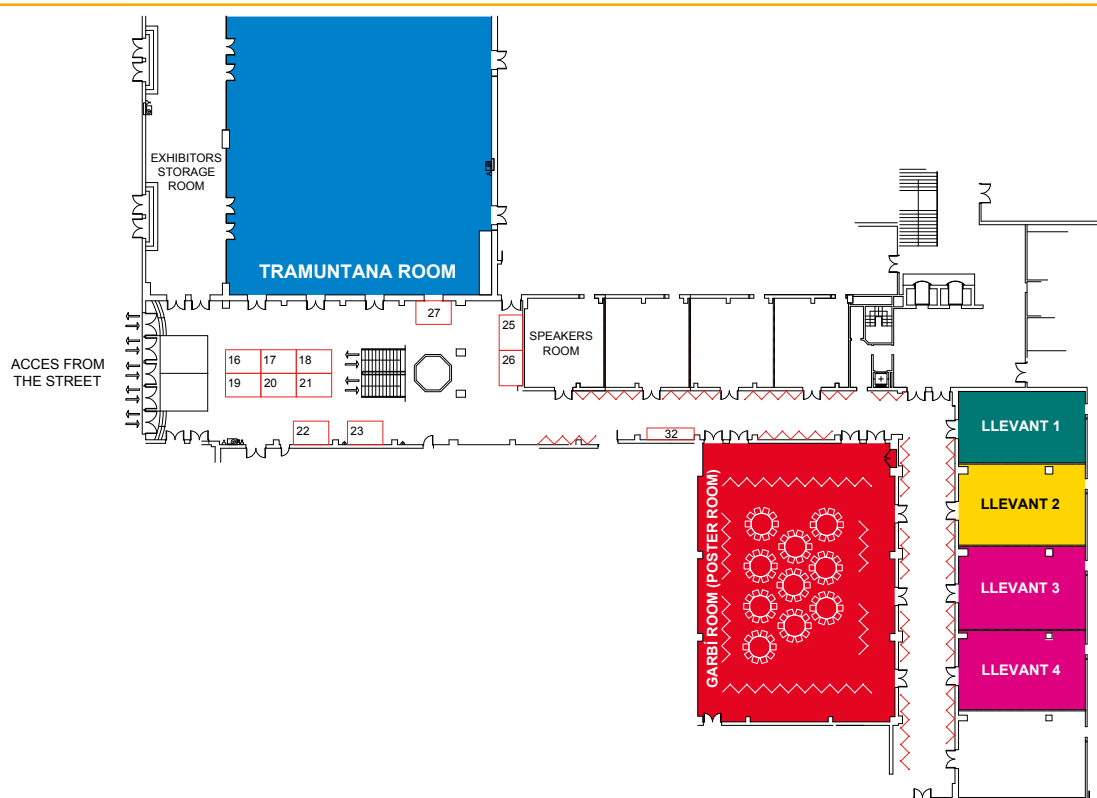


# EXHIBITION MAP

## FLOOR 0



## FLOOR -1



1 & 2	Genove	12	Laboratorios Viñas	21	NAAF
3	Skymedic	13	Capillus	22	DSD de Luxe
4	APS	14	TrichoLab	23	Cantabria Labs
5	Ducray	15	Lead M Corporation	25&26	Sesderma
6	Fidia	16	Aderans	27	Regen Lab
7	Venus Concept	17	TricoHRC	29	Almirall
8 & 9	Fagron	18	Monasterium	30	Melbourne 2021
10	Cesare Ragazzi	19	Regenera Activa	31	Canfield
11	Isdin	20	Alopecia UK	32	Wisepress

EXHIBITORS



# GENERAL INFORMATION

## DATES

Congress: April 24<sup>th</sup> - 27<sup>th</sup>, 2019

## CONGRESS VENUE

Hotel Meliá Sitges  
C/ de Joan Salvat Papasseit, 38  
08870 Sitges, Barcelona, Spain

## WEATHER

The weather in April in Sitges is quite mild. Normally the temperature could be around the 25 degrees centigrade during the day.

## LANGUAGE

The official language of the Conference is **English**

## BUS SERVICE

The organisation has hired a bus service that will make the route: **Hotel ME - Hotel Calipolis** (Sitges center) - Train station - **Meliá Hotel** and return, during the hours of the congress. There will also be a bus service to attend the Gala Dinner on Friday 26<sup>th</sup> at 7:15 pm from the **Hotel Calipolis, Hotel ME and Meliá Hotel**

## ON-SITE REGISTRATION

Please make your registration on site, to the Registration Desk at the Technical Secretariat. The payment will have to be performed by credit card (VISA/Mastercard) or cash.

## REGISTRATION FEES

*Member: 650 €*

*Non Member: 700 €*

*Students with certificate: 275 €*

*Industry: 1000 €*

## PARTICIPANTS DOCUMENTATION

The Technical Secretariat will deliver to all the participants: the congress bag and an envelope. In the envelope you will find the badge with your name and the tickets previously requested. Please, verify that everything is inside when you pick up the documentation.

## GALA DINNER TICKETS

In the envelope delivered by the technical secretariat upon your arrival, you will find a Gala dinner ticket (paid previously). You will have to exchange it for the definitive one for choosing a table and a seat. More tickets for the Gala dinner can be bought at the registration desk, always according to availability.  
*Price: 60 €*

The payment will have to be performed by credit card (VISA/Mastercard) or cash.

## BADGES

All congress participants are kindly requested to wear the badges with their names at all times. Nobody without the badge will be allowed to enter the Congress area.

## SPEAKERS PRACTICAL INFORMATION

To download your presentation during the Congress, please, bring a USB (pen drive) with your presentation in the powerpoint file (.ppt), we cannot accept pdf files. Aspect ratio 16:9  
You cannot use your pc for the presentation. All the lectures have to be delivered to the technicians at the **SPEAKER'S ROOM**, if possible, 24<sup>hs</sup> before the presentation. Only PowerPoint Microsoft (Not apple). You should convert your presentation to Power Point.

## SPEAKERS' ROOM

During the Congress a room will be available for checking and loading the presentations. All the speakers should go and deliver their presentation the day prior or at least 1 hour before the presentation. This room will be located next to the Tramuntana Room.

## POSTER SESSIONS

Posters authors will have to be in front of their poster in due time on Thursday 25<sup>th</sup> and Friday 26<sup>th</sup> (during the afternoon coffee break), to answer any question regarding their poster. ODD numbers on Thursday 25<sup>th</sup> and PAIR numbers on Friday 26<sup>th</sup>

## POSTER SET-UP, VIEWING, DISCUSSION AND DISMANTLING

The authors of the posters will be able to assemble their works on Wednesday 24<sup>th</sup> from 3:00 p.m. to 6:00 p.m. and Thursday 25<sup>th</sup> from 9:00 a.m. to 1:00 p.m.

The organisation will provide adhesive tape to be able to place the posters. Please note the number of your poster when you receive the acceptance letter, because it will be the same number that will be on the board where you will have to place it.

## POSTER REMOVING

Saturday 27<sup>th</sup> from 9.00 am to 1.00 pm. Neither the organisation or the Hotel will take charge or have any obligation to the posters that have not been removed on Saturday 27<sup>th</sup> at 1:00 p.m.

## ABSTRACT BOOK

The abstract book, in USB format, will be delivered to the Congress attendants at the Almirall table. (Booth nº 29)

## AWARDS

During the Meeting, the Scientific Committee will select the best poster and the best oral presentation. The winners will be granted with a free registration to the next World Congress (Australia 2021) and will be announced during the Closing Ceremony.

## VIDEO, PHOTOGRAPHY & AUDIORECORDING POLICY

Video recording and/or photography are strictly prohibited in all educational sessions. Under no circumstances are video, digital or still cameras to be utilized in the educational sessions. This includes photos and videos taken with cellular phones. Violators will have their cameras/equipment confiscated until the end of the meeting. Audiorecording for personal use only is permitted (i.e., for gathering information and NOT for rebroadcast or reproduction). Photography of scientific material is strictly prohibited.



# **SUGGESTED RESTAURANTS CLOSE TO THE CONGRESS VENUE**

In Port d'Aiguadolç, 5 minuts walking.

- 1 **RESTAURANT LES FONTS D'AIGUADOLÇ**  
Port d'Aiguadolç,  
Passeig de les Drassanes, s/n, Local 2
- 2 **RESTAURANTE CAN LAURY**  
Av. del Port d'Aiguadolç, 49
- 3 **LA TABERNA DEL PUERTO**  
Av. del Port d'Aiguadolç, 24
- 4 **LA PIZZERIA DEL PUERTO SITGES**  
Avinguda del Port d'Aiguadolç,  
Passeig de les Drassanes, 32
- 5 **IRIS GALLERY RESTAURANTE**  
Av. del Port d'Aiguadolç, 8
- 6 **RESTAURANTE MAGOA**  
Av. del Port d'Aiguadolç, 19
- 7 **VILLA MARINA SITGES**  
Av. del Port d'Aiguadolç
- 8 **SWEET PACHA**  
Av. del Port d'Aiguadolç, 6



# Program at a Glance

	Wednesday 24 <sup>th</sup>			
09:00	Delivery of documentation			
	Room LLEVANT 1	Room LLEVANT 2	Room BARCELONA	Room LLEVANT 3+4
13:00 15:00	Basic course on diagnosis and treatment of hair disorders	Basic Science Course for Hair Researchers	Pre Course on Epigenetics	Pre Course on Trichoscopy
	Room AUDITORI	Room TRAMUNTANA		
15:30 17:00	Hair Transplantation	Alopecia areata immunobiological and research		
17:00	Coffee break at the Exhibition Area			
17:30 19:00	Alopecia areata clinical	Neogenesis and tissue engineering		
19:00	Opening ceremony			
19:30	Cocktail reception			

	Thursday 25 <sup>th</sup>			
	Room LLEVANT 4			
06:30 08:00	IFHRS Meeting			
	Room LLEVANT 1	Room LLEVANT 2	Room LLEVANT 3	
08:00 09:00	BREAKFAST SESSION Hair transplant	BREAKFAST SESSION Ethnic hair	BREAKFAST SESSION Scalp dermatosis and Hair loss	
	Room AUDITORI	Room TRAMUNTANA		
09:00 10:30	Cicatricial alopecia (Non FFA)	Auxiliary cells (macrophages melanocytes adipocytes, nerves)		
10:30	KEYNOTE LECTURE Jerry Shapiro			Room BARCELONA
11:00	Coffee break at the Exhibition Area and Posters viewing			EHRS Board Meeting
11:30 13:00	Androgenic Alopecia Research	Hormones, hair growth and FPHL		
	Room TRAMUNTANA			
13:00	PFIZER SIMPOSIUM - with lunch			
	Room AUDITORI	Room TRAMUNTANA		
14:00 15:30	Androgenic Alopecia Clinical and Therapy	Stem cells and stem cell niches		
15:30	Coffee break at the Exhibition Area and Posters discussion on site (ODD numbers)			
16:15 16:45	JAK Inhibitor CTP-543: Interim results from a Phase 2 Trial in Alopecia Areata	How does genomics increase the efficacy of antialopepic treatment?		
16:45 18:15	Trichoscopy and other diagnostic tools	Hair Graying Pigmentation		
18:15 19:00	Telogen Effluvium (FC)	Hair Transplantation (FC)		



Friday 26 <sup>th</sup>		
	<b>Room GARBÍ</b>	
08:00 09:00	ASK THE EXPERTS	
	<b>Room AUDITORI</b>	<b>Room TRAMUNTANA</b>
08:30 09:00	Micro-grafting in the Management of Androgenetic Alopecia	Scalp Seborrheic Dermatitis and Microbiome: What's New?
09:00 10:30	Pediatric Trichology	Dermal Papilla
10:30	John Ebling LECTURE Valerie Randall	
11:00	Coffee break at the Exhibition Area and Posters viewing	
11:30 13:00	Mechanical (Physical) therapy for hair diseases	Genotrichosis
13:00 14:00	Androgenetic (FC)	Drug Induced Alopecia (FC)
14:00 15:30	Frontal Fibrosing Alopecia	Hair follicle aging
15:30	Coffee break and Posters discussion on site (PAIR numbers)	
16:15 17:45	Psychological aspects of hair disease	Prostaglandins and hair follicle regulation
		EHRs General Meeting
19:45	Gala Dinner	

Saturday 27 <sup>th</sup>		
	<b>Room GARBÍ</b>	
08:00 09:00	ASK THE INDUSTRY	
	<b>Room AUDITORI</b>	<b>Room TRAMUNTANA</b>
09:00 10:30	Clinical Cases from Eastern Europe	Next generation sequencing approaches
10:30 11:00	KEYNOTE LECTURE Claire Higgins	
11:00	Coffee break at the Exhibition Area and Posters viewing	
11:30 13:00	Hair cosmetics news and views	Histopathology (in memory of David Whiting)
13:00	CLOSING REMARKS. Awards	

WEDNESDAY 24<sup>th</sup> APRIL, 2019

09.00 OPEN REGISTRATION

**PRE-COURSES** Registration is required and will be confirmed on a first-come, first served basis. FEE: 50€ per course13.00-15.00 **BASIC COURSE ON DIAGNOSIS AND TREATMENT OF HAIR DISORDERS** (ticket required)

Room LLEVANT 1



Mara Fernanda Gavazzoni



Dominique Van Neste



Dimitrios Ioannides

**Chairs** *Dimitrios Ioannides, Dominique Van Neste, Maria Fernanda Gavazzoni*

**Interactive Q&A  
clinic-dermatoscopy-histopathology  
and treatment**

13.00-13.35 **Inflammatory alopecias with scarring**  
(LPP, FFA, FAPD, FD, DC, others)  
*Maria Fernanda Gavazzoni*

13.35-14.10 **Non-scarring alopecias** (AGA or MPHL and  
concomittant hair loss AA, effluvium, and others)  
*Dominique Van Neste*

14.10-14.45 **Clinical cases** (6 min/each Q&A case)  
*Dimitrios Ioannides*

14.45-15.00 Discussion and Questions

13.00-15.00 **BASIC SCIENCE COURSE FOR HAIR RESEARCHERS** (ticket required)

Room LLEVANT 2



Desmond Tobin



Tom Dawson



Gill Westgate



Claire Higgins

**Chairs** *Desmond Tobin, Gill Westgate*

13.00-13.05 Welcome address from the Chairs

13.05-13.30 **Are we any closer to finding the hair follicle (auto)  
antigen(s) in alopecia areata**  
*Desmond Tobin*

13.30-13.55 **Maintaining your mane: Hair shaft production and  
synthesis in health and disease**  
*Tom Dawson*

13.55-14.20 **Curly hair; just rooted in biology and genetics?**  
*Gill Westgate*

14.20-14.45 **Lab based approaches for studying hair follicle  
development and cycling**  
*Claire Higgins*

14.45-15.00 Discussion and Questions

## 13.00-15.00 EPIGENETICS (ticket required)

Room BARCELONA



Vladimir Botchkarev



Andrei Mardaryev



Colin Jahoda



Elena Ezhkova



Michael Fessing



Natalia Botchkareva

**Chairs** *Elena Ezhkova, Vladimir Botchkarev*

- |             |  |
|-------------|--|
| 13.00-13.05 | Introductory remarks   |
| 13.05-13.25 | <b>Epigenetic regulatory mechanisms as a driving force of phenotypic plasticity and evolutionary adaptation</b><br><i>Vladimir Botchkarev</i>  |
| 13.25-13.45 | <b>DNA hydroxymethylation and TET enzymes in the control of hair growth</b><br><i>Andrei Mardaryev</i>   |
| 13.45-14.05 | <b>Does dermal papilla cell chromatin remodelling in vivo and in vitro reflect a distinctive epigenetic status of these cells</b><br><i>Colin Jahoda</i>   |
| 14.05-14.25 | <b>Polycomb genes in the control of hair follicle development and cycling</b><br><i>Elena Ezhkova</i>  |
| 14.25-14.40 | <b>The SWI/SNF ATP-dependent chromatin remodeling complex differentially controls keratinocyte proliferation and migration in human anagen hair follicle and healing cutaneous wound</b><br><i>Michael Fessing</i> |
| 14.40-14.55 | <b>MicroRNAs as regulators of hair follicle cycling and immune privilege</b><br><i>Natalia Botchkareva</i>   |
| 14.55-15.00 | Concluding remarks   |

## 13.00-15.00 TRICHOSCOPY (ticket required)

Room LLEVANT 3+4



Lidia Rudnicka



Michela Starace



Antonella Tosti



Rodrigo Pirmez



Daniel Asz Sigall



Bianca Maria Piraccini



Adriana Rakowska



Mariusz Sikora

- |              |   |
|--------------|---|
| <b>Chair</b> | <i>Lidia Rudnicka</i>   |
| 13.00-13.10  | Introduction<br><i>Lidia Rudnicka</i>   |
| 13.10-13.22  | <b>Basic trichoscopy structures</b><br><i>Michela Starace</i>                                 |
| 13.22-13.34  | <b>Trichoscopy of uncommon causes of hair loss in children</b><br><i>Antonella Tosti</i>      |
| 13.34-13.46  | <b>Trichoscopy in differential diagnosis of cicatricial alopecia</b><br><i>Rodrigo Pirmez</i> |
| 13.46-13.58  | <b>Trichoscopy in differential diagnosis of patchy alopecia</b><br><i>Daniel Asz Sigall</i>   |
| 13.58-14.10  | <b>Trichoscopy in a woman with diffuse hair loss</b><br><i>Bianca Maria Piraccini</i>         |
| 14.10-14.22  | <b>Hair loss in the frontal hair line</b><br><i>Adriana Rakowska</i>                          |
| 14.22-14.34  | <b>Trichoscopy beyond dermatology</b><br><i>Lidia Rudnicka</i>                                |
| 14.34-14.46  | <b>How to perform a trichoscopy-guided biopsy</b><br><i>Mariusz Sikora</i>                    |
| 14.46-15.00  | Discussion and Questions  |

## 15.00 END OF COURSES

APRIL

24<sup>th</sup>

DAY BY DAY PROGRAM



## 15.30-17.00 HAIR TRANSPLANTATION

Room AUDITORI



Alex Ginzburg



Andreas Finner



Ratchathorn Panchaprateep



Nilofer Farjo

**Chairs** *Nilofer Farjo, Alex Guinzburg*

- |             |   |
|-------------|---|
| 15.30-15.45 | <b>FUE in Different Ethnicities</b><br>Alex Ginzburg  |
| 15.45-16.00 | <b>Linear excision in hair transplantation (FUT): is it still relevant?</b><br>Andreas Finner |
| 16.00-16.15 | <b>Hair Transplantation in Females</b><br>Ratchathorn Panchaprateep                           |
| 16.15-16.30 | <b>Difficult cases in hair restoration</b><br>Nilofer Farjo                                   |

**Free Communications to the topic**

- |             |   |
|-------------|---|
| 16.30-16.40 | <b>Hair transplant in frontal fibrosing alopecia: a multicenter review of 51 patients</b><br>S. Vaño-Galván, E. Villodres, R. Pigem, R. Navarro, M. Asín, T. Meyer-González, R. Rodrigues-Barata, OM Moreno-Arrones, D. Saceda-Corralo, P. Bouhanna*, A. Camps<br>Hair Transplant Clinics from Madrid, Barcelona, Alicante and Malaga (Spain) and Bouhanna Hair Transplant Clinic* Paris (France) |
| 16.40-16.50 | <b>Eyebrow hair transplantation in frontal fibrosing alopecia: does it work?</b><br>F. Jimenez, A. Audickaite<br>Meditekna Dermatology and HT Clinic, Las Palmas de Gran Canaria, Spain   |
| 16.50-17.00 | <b>Transplantation of anagen hair follicles promotes remodelling of stretched scars</b><br>M. Plotczyk*, G. Williams**, F. Jiménez***, CA. Higgins*<br>* Department of Bioengineering, Imperial College London, London SW7 2AZ; ** Farjo Hair Institute, London W1G 7LH; *** Meditekna Dermatology and Hair Transplant Clinic, Las Palmas de Gran Canaria. Spain                                  |

## 15.30-17.00 ALOPECIA AREATA IMMUNOBIOLOGICAL AND RESEARCH

Room TRAMUNTANA



Kevin McElwee



Amos Gilhar



Ralf Paus



Angela M. Christiano



Maria Hordinsky

**Chairs** *Maria Hordinsky, Angela Christiano*

- |             |  |
|-------------|--|
| 15.30-15.35 | <b>3500 years of alopecia areata research</b><br>Kevin McElwee                                       |
| 15.35-15.45 | <b>Alopecia areata: a disease with multiple players</b><br>Amos Gilhar                               |
| 15.45-15.55 | <b>Triggers of hair follicle immune privilege collapse in alopecia areata revisited</b><br>Ralf Paus |
| 15.55-16.15 | <b>Translational research in alopecia areata: pathways to clinic</b><br>Angela M. Christiano         |
| 16.15-16.20 | <b>Nerves, neuropeptides and alopecia areata</b><br>Maria Hordinsky                                  |
| 16.20-16.30 | <b>Panel discussion</b>  |

**Free Communications to the topic**

- |             |  |
|-------------|--|
| 16.30-16.40 | <b>Mhc risk haplotype sequencing and allele-specific genome editing by crispr/cas9 system reveal cchcr1 as susceptibility gene for alopecia areata</b><br>S. Ikeda (a), A. Takagi (a), E. Komiyama (a), N. Yoshihara (a), T. Mabuchi (b), A. Otomo (c), M. Ohtsuka (c), A. Oka (d)<br>(a) Dermatology, Juntendo University, (b) Dermatology and (c) Molecular Life Sciences and (d) Institute of Medical Sciences, Tokai University, Japan   |
| 16.40-16.50 | <b>Alopecia areata is associated with altered frequencies of CD4+ T cells and a systemic inflammatory cytokine signature</b><br>K.A. Bain*, E. McDonald*, F. Moffat***, R. Papadopolou*, M. Tutino****, M. Castellino****, A. Barton****, J. Cavanagh*, U.Z. Ijaz*, K. Gerasimidis*, S. Siebert*, I.B. McInnes*, A. Astrand**, S. Holmes***, S.W.F. Milling*<br>*University of Glasgow, UK; **Respiratory, Inflammation and Autoimmunity IMED Biotech Unit, AstraZeneca, Gothenburg; ***Queen Elizabeth University Hospital, Glasgow, UK; ****University of Manchester. UK |
| 16.50-17.00 | <b>Dysregulation of autophagic flux contributes to Alopecia Areata Etiology</b><br>R. Gund, S. Erjavec, A. Christiano<br>Department of Dermatology, Columbia University, New York. USA   |

## 17.00-17.30 COFFEE BREAK AT THE EXHIBITION AREA

## 17.30-19.00 ALOPECIA AREATA CLINICAL AND THERAPY

Room AUDITORI



Wilma Bergfeld



Jerry Shapiro



Xingqi Zhang



Elise Olsen

### Chairs *Elise Olsen, Jianzhong Zhang*

- |             |  |
|-------------|--|
| 17.30-17.45 | <b>Long-Term Treatment for Severe Alopecia Areata with Oral Tofacitinib Citrat</b><br><i>Wilma Bergfeld</i>                            |
| 17.45-18.00 | <b>Platelet Rich Plasma for AA.</b><br><i>Jerry Shapiro</i>  |
| 18.00-18.15 | <b>Allergen Desensitization Treatment Decreases Severity of Relapse in Atopic Patients with Alopecia Areata</b><br><i>Xingqi Zhang</i> |
| 18.15-18.30 | <b>New assessment methods in AA.</b><br><i>Elise Olsen</i>   |
| 18.30-18.40 | <b>Q &amp; A</b>   |

### Free Communications to the topic

- |             |   |
|-------------|---|
| 18.40-18.50 | <b>Development and content validation of clinically meaningful clinician-reported outcome (clinros) measures for eyebrow, eyelash and nail assessment in alopecia areata</b><br><i>K.W. Wyrwich*, H. Kitchen**, S. Knight**, N.V.J. Aldhouse**, J. Macey**, F. Nunes*, Y. Dutronc*, N. Mesinkovska***, J. Ko****, B.A. King*****</i><br><small>*Eli Lilly and Company, Indianapolis, IN, USA; **DRG Abacus, Manchester, UK; ***University of California, Irvine, CA, USA; ****Stanford University, CA, USA; *****Yale School of Medicine, Middlebury, CT, USA</small> |
| 18.50-19.00 | <b>Tofacitinib in combination with oral minoxidil for the treatment of severe alopecia areata</b><br><i>B. King, B. Craiglow, C. Wambier</i><br><small>Department of Dermatology, Yale University School of Medicine, New Haven, CT, USA</small>  |

## 17.30-19.00 NEOGENESIS AND TISSUE ENGINEERING

Room TRAMUNTANA



Sung-Jan Lin



Mayumi Ito



Jiro Kishimoto



Mike Philpott

### Chairs *Mike Philpott, Sung-Jan Lin*

- |             |  |
|-------------|--|
| 17.30-17.50 | <b>Inducing hair follicle neogenesis in vivo with defined protein factors</b><br><i>Sung-Jan Lin</i>   |
| 17.50-18.10 | <b>SHH signaling in hair follicle neogenesis in adult skin</b><br><i>Mayumi Ito</i>  |
| 18.10-18.30 | <b>Autologous cell-based therapy for hair loss using dermal sheath cup cells- Basic concept and clinical applicatio</b><br><i>Jiro Kishimoto</i> |

### Free Communications to the topic

- |             |   |
|-------------|---|
| 18.30-18.40 | <b>Hair follicle germ formation on oxygen-permeable microwell array chips for hair regenerative medicine</b><br><i>T. Kageyama*, C. Yoshimura**, S. Hirano**, K. Kasai***, J. Fukuda***</i><br><small>*Kanagawa Institute of Industrial Science and Technology (KISTEC), Kawasaki, Japan; **Faculty of Engineering, YOKOHAMA National University, Yokohama, Japan; ***Shonan Beauty Clinic, Tokyo, Japan</small>      |
| 18.40-18.50 | <b>The role of extra cellular matrix in inducing in vitro morphogenesis of the follicle-like structures</b><br><i>C. Casale*, G. Imparato*, F. Urciuolo**, P.A. Netti*,**</i><br><small>**Department of Chemical, Materials and Industrial Production, University of Naples Federico II, Naples, Italy. *Center for Advanced Biomaterials for HealthCare@CRIB, Istituto Italiano di Tecnologia, Naples, Italy</small> |
| 18.50-19.00 | <b>Human adult skin stem cells self-organize into hair follicle germ in vitro</b><br><i>E. Kalabusheva, E. Chermnykh, E. Vorotelyak</i><br><small>Koltzov Institute of Developmental Biology, Russian Academy of Sciences, Moscow, Russia</small>   |

19.00

**OPENING CEREMONY**

Room AUDITORI

Francisco Camacho, Juan Ferrando, Ramon Grimalt, Sergio Vañó-Galván  
Free entrance to all the registered people

19.30

**COCKTAIL RECEPTION AT THE HOTEL MELIA RESTAURANT AREA**

- The Melia Hotel is a unique venue, so the cocktail reception is going to be a special event that we will all enjoy. On after the Opening Ceremony we will offer you a Welcome Cocktail Reception at 7.30pm





06.30-08.00 **IFHRS MEETING** (invitation only)

Room LLEVANT 4

**BREAKFAST SESSIONS** *Registration is required and will be confirmed on a first-come, first basis. FEE: 50€ per session*

08.00-09.00 **BFS1 - HAIR TRANSPLANT**

Room LLEVANT 1



Bessam Farjo



Jeff Epstein



Greg Williams

**Speaker** *Bessam Farjo*

The role of hairline advancement surgery to treat hair loss  
Jeff Epstein

FUE vs Strip FUT - Pros & Cons.  
Greg Williams

08.00-09.00 **BFS2 - ETHNIC HAIR**

Room LLEVANT 2



Amy McMichael

**Speaker** *Amy McMichael*

08.00-09.00 **BFS3 - SCALP DERMATOSES AND HAIR LOSS**

Room LLEVANT 3



Manabu Ohyama



Misaki Kinoshita-Ise



Taisuke Ito



Yutaka Shimomura

**Speaker** *Manabu Ohyama*

Skin diseases involving the scalp and associated hair loss  
Manabu Ohyama

.Trichoscopy in the evaluation of scalp dermatosis and hair loss  
Misaki Kinoshita-Ise

.Scalp involvement of atopic disease and alopecia  
Taisuke Ito

.Scalp lesions of congenital hair diseases.  
Yutaka Shimomura

## 09.00-10.30 CICATRICAL ALOPECIA (NON FFA)

Room AUDITORI



Mariya Miteva



Ncoza Dlova



Angela Christiano



Matthew Harries

**Chairs** *Wilma Bergfeld, Andrew Messenger*

- |             |  |
|-------------|--|
| 09.00-09.15 | <b>Comparative histopathology of inflammatory cicatricial alopecia, traction alopecia and cicatricial marginal alopecia</b><br>Mariya Miteva |
| 09.15-09.30 | <b>Update on Central Centrifugal Cicatricial Alopecia</b><br>Ncoza Dlova   |
| 09.30-09.45 | <b>Genetics and inflammatory markers of cicatricial alopecia</b><br>Angela Christiano  |
| 09.45-10.00 | <b>Endpoints in clinical trials for cicatricial alopecia</b><br>Matthew Harries  |

**Free Communications to the topic**

- |             |  |
|-------------|--|
| 10.00-10.10 | <b>Immunohistochemistry patterns in cicatricial alopecias</b><br>SC García-García, AP García-Herrera*, X. Fustá, J. Ferrando<br>Dept. of Dermatology & Pathology*. Hospital Clinic. University of Barcelona. Spain   |
| 10.10-10.20 | <b>Therapeutic response of triancilonone in Central Centrifugal Cicatricial Alopecia</b><br>Tommaso P., Duque Estrada B., Pirmez R., Quintella D., Sodre C., Tanus A.<br>Hair Center Diseases of Santa Casa da Misericórdia Rio de Janeiro   |
| 10.20-10.30 | <b>Ppar-g stimulation with nac-ged-0507-levo protects from cyclophosphamide-induced hair follicle cytotoxicity and bulge stem cell damage</b><br>I. Piccini <sup>(1)</sup> , J. Chéret <sup>(2)</sup> , S. Ghatak <sup>(1)</sup> , M. Alam <sup>(3)</sup> , J. Hardman <sup>(4)</sup> , H. Erdmann <sup>(5)</sup> , F. Jimenez <sup>(3)</sup> , C. Ward <sup>(1)</sup> , R. Paus <sup>(2,4)</sup> , M. Bertolini <sup>(1)</sup><br><sup>1</sup> Monasterium Laboratory, Münster, Germany; <sup>2</sup> University of Miami, Miami, USA; <sup>3</sup> Meditekna Skin & Hair Lab, Las Palmas, Spain; <sup>4</sup> University of Manchester, Manchester, UK; <sup>5</sup> Kosmed Klinik, Hamburg, Germany |

## 09.00-10.30 AUXILIARY CELLS (macrophages melanocytes adipocytes, nerves)

Room TRAMUNTANA



Carlos Clavel



Etienne Wang



Ya-Chieh Hsu



Mirna Perez-Moreno

**Chairs** *Carlos Clavel, Etienne Wang*

- |             |   |
|-------------|---|
| 09.00-09.15 | <b>Change of the hair follicle stem cell fate after inducing senescence</b><br>Carlos Clavel  |
| 09.15-09.30 | <b>Oncostatin m from a distinct subset of trem2+ macrophages inhibits hair follicle stem cell proliferation during telogen</b><br>Etienne Wang  |
| 09.30-09.45 | <b>Beyond Goosebumps: Interactions between the hair follicle, the arrector pili muscle, and the sympathetic nerve during development and hair follicle regeneration</b><br>Ya-Chieh Hsu |
| 09.45-10.00 | <b>A lymphatic vascular niche contributes to the cyclic activation of adult hair follicle stem cells</b><br>Mirna Perez-Moreno  |

**Free Communications to the topic**

- |             |  |
|-------------|--|
| 10.00-10.10 | <b>Sensory neural networks in the human hair follicle: implications in tactile mechanotransduction</b><br>J. Agramunt <sup>(1)</sup> , F. Jiménez <sup>(2)</sup> , A. Kozlov <sup>(1)</sup> , C. A. Higgins <sup>(1)</sup><br><sup>1</sup> Department of Bioengineering, Imperial College London, London, United Kingdom, <sup>2</sup> Meditekna Dermatology and Hair Transplant Clinic, Las Palmas de Gran Canaria, Spain   |
| 10.10-10.20 | <b>Light stimulation to eyes activates hair follicle stem cells by activating sympathetic nerves via an ipRGC-SCN-sympathetic nervous circuit</b><br>SM Y. Fan*, Y-T. Chang**, C-L. Chen*, W-H. Wang*, Z. Xu***, T. Chen***, M.V. Plikus****, S-K. Chen**, S-J. Lin*<br>*Institute of Biomedical Engineering; **Department of Life Science, National Taiwan University, Taipei, Taiwan; ***National Institute of Biological Sciences, Beijing, China; ****Center for Complex Biological Systems and Department of Developmental and Cell Biology, University of California, Irvine, CA, USA. |
| 10.20-10.30 | <b>Dermal white adipose tissue secretes hepatocyte growth factor to promote human hair follicle growth and pigmentation</b><br>C. Nicu <sup>(1)</sup> , J. Hardman <sup>(1)</sup> , T. Lai <sup>(1)</sup> , J. Pople <sup>(2)</sup> , R. Bhogal <sup>(2)</sup> , D.M. Ansell <sup>(1)</sup> & R. Paus <sup>(1)(3)</sup><br><sup>1</sup> Centre for Dermatology Research, University of Manchester, UK; <sup>2</sup> Unilever R&D Colworth, Bedford, UK; <sup>3</sup> Dept of Dermatology & Cutaneous Surgery, University of Miami Miller School of Medicine, USA                             |

10.30

**KEYNOTE LECTURE: How to successfully run a hair clinic**

Room AUDITORI



Francisco Camacho



Juan Ferrando



Jerry Shapiro

*Chairs* **Francisco Camacho, Juan Ferrando***Speaker* **Jerry Shapiro**11.00-11.30 **EHRS Board Meeting** (invitation only)

Room BARCELONA

11.00-11.30 **COFFEE BREAK AT THE EXHIBITION AREA AND POSTERS VIEWING**11.30-13.00 **ANDROGENIC ALOPECIA RESEARCH**

Room AUDITORI



Won-Soo Lee



George Cotsarelis



Annika Vogt

*Chairs* **George Cotsarelis, Annika Vogt**11.30-11.50 **Beyond Androgenetic Alopecia-patient awareness, life quality and comorbidities**  
**Won-Soo Lee**11.50-12.10 **Studying AGA in the lab**  
**George Cotsarelis**12.10-12.30 **Early effects of topical minoxidil 5% foam on gene expression, hair growth and scalp microenvironment in male AGA patients: an explorative clinical study**  
**Annika Vogt***Free Communications to the topic*12.30-12.40 **Does hair follicular KATP channel gating by minoxidil-and/or mechano-stimulation contribute to hair growth in vivo?**  
**H. Takada, Y. Osada, T. Hama, T. Koyama, K. Kobayashi, R. Ogawa**  
Nippon Medical School Graduate School of Medicine, Tokyo, Japan; Angfa Co., Ltd., Tokyo, Japan; Men's Health Clinic Tokyo, Tokyo, Japan12.40-12.50 **Skin stiffness of the scalp is associated with androgenetic alopecia**  
**CC Yang, KY. Chen**  
Department of Dermatology, College of Medicine, National Cheng Kung University, Tainan, Taiwan. International Center for Wound Repair and Regeneration, National Cheng Kung University, Tainan, Taiwan12.50-13.00 **Change in hair growth-related gene expression profile in human isolated hair follicles induced by the 5-alpha reductase inhibitors, dutasteride and finasteride, in the presence of testosterone**  
**T. Hatanaka<sup>(1)</sup>, Z. Lulic<sup>(2)</sup>, S. Getsios<sup>(3)</sup>, T. Meho<sup>(4)</sup>, C. Booth<sup>(4)</sup>, E. Harrison<sup>(4)</sup>, M. Yamada<sup>(1)</sup>, G. Ong<sup>(5)</sup>**  
<sup>1</sup> Medical Division, GlaxoSmithKline (GSK) K.K., Tokyo, Japan; <sup>2</sup> Pharma R&D, GSK, London, UK; <sup>3</sup> GSK, PA, USA; <sup>4</sup> Epistem Ltd., Manchester, UK; <sup>5</sup> Pharma R&D, GSK, Pte Ltd, Singapore11.30-12.40 **HORMONES, HAIR GROWTH AND FPHL**

Room TRAMUNTANA

*Chairs* **Francisco Camacho, Ulrike Blume-Peytavi**11.30-11.50 **SAHA 2019**  
**Francisco Camacho**11.50-12.10 **Female Pattern Hair Loss 2019**  
**Ulrike Blume-Peytavi**12.10-12.30 **Hirsutism 2019**  
**Cristina Serrano**

Francisco Camacho



Ulrike Blume-Peytavi



Cristina Serrano

*Free Communication to the topic*12.30-12.40 **A new classification of Early Female Pattern Hair Loss**  
**A. Kaneko\*, T. Kaneko\*\***  
\* Bona Dea Clinic, Japan; \*\* National centre for child health and development, Japan

APRIL

25<sup>th</sup>

DAY BY DAY PROGRAM



13.00-14.00 SATELLITE SYMPOSIUM with lunch

Room TRAMUNTANA

A NEW ERA IN ALOPECIA AREATA THERAPY

Sponsored by



- 13.00-13.05 Welcome and introduction  
 13.05-13.25 Exploring the unmet needs in alopecia areata therapy - Wilma Bergfeld  
 13.25-13.45 Rationale for targeting intracellular signaling in alopecia areata - Ralf Paus  
 13.45-13.55 Q&A  
 13.55-14.00 Summary and close

15.00-15.10 ANDROGENIC ALOPECIA CLINICAL AND THERAPY

Room AUDITORI



Rolf Hoffmann



Rod Sinclair



Ramon Grimalt

**Chairs** Rod Sinclair, Rolf Hoffmann

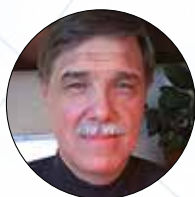
- 14.00-14.05 Introduction to the session  
 Rolf Hoffmann  
 14.05-14.23 Telogen hair shedding and trichodynia. Underestimated features of female pattern hair loss  
 Rod Sinclair  
 14.23-14.40 Managing the male patient who fails to respond to, or is intolerant of finasteride  
 Ramon Grimalt

Free Communications to the topic

- 14.40-14.50 Minoxidil 1 mg orally versus Minoxidil 5% solution topically for treatment of Female Pattern Hair Loss: A Randomized Clinical Trial  
 P. Ramos<sup>1</sup>; R. Sinclair<sup>2</sup>; M. Kasprzak<sup>3</sup>; H. Miot<sup>1</sup>  
<sup>1</sup>Departamento de Dermatologia e Radioterapia, UNESP, Botucatu, SP, Brazil; <sup>2</sup>Sinclair Dermatology, Melbourne, VIC, Australia; <sup>3</sup>TrichoLAB, Bad Birmbach, Germany  
 14.50-15.00 Female pattern hair loss (FPHL): efficacy comparison among various treatment options, an observational cohort study  
 R. Panchaprateep  
 Division of Dermatology, Department of Medicine, Faculty of Medicine, Chulalongkorn University, King Chulalongkorn Memorial Hospital, Bangkok, Thailand  
 15.00-15.10 Retinoic acid enhances minoxidil response in androgenetic alopecia patients by up-regulating follicular sulfotransferase enzymes: a cross-sectional study in an indian cohort  
 A. Sharma, R. Dhurat, A. Goren\*, M. Kovacevik\*\*, J. McCoy, S. Agrawal  
 Lokmanya Tilak Medical College and General Hospital, Mumbai, India\*\* Department of Dermatovenereology, Sestre Milosrdnice University Hospital Centre, Zagreb, Croatia\* University of G. Marconi, Rome, Italy  
 15.10-15.20 Phase II study to evaluate efficacy and safety of pyrrolidinyl diaminopyrimidine oxide (pdpo) topical solution for mild to moderate androgenic alopecia  
 MA Martinez-Velasco, F Tamez-Gutierrez, B Patel  
 Hospital medica Sur, Mexico City



Sarah Millar



Andrey Panteleyev



Amos Gilhar



Ralf Paus

**Chairs** *Chairs: Ralf Paus, Sarah Millar*

- 14.00-14.20 Hair follicle stem cells and their niches: Introductory overview from a murine perspective  
*Sarah Millar*
- 14.20-14.40 The secondary hair germ: revisitation of a unique progenitor cell niche  
*Andrey Panteleyev*
- 14.40-15.00 Humanized mouse models for translational stem cell analyses in androgenetic alopecia and chemotherapy-induced alopecia research  
*Amos Gilhar*
- 15.00-15.20 Scarring alopecias as model human stem cell diseases: from immune privilege collapse to epithelial-mesenchymal transition (EMT)  
*Ralf Paus*

**Free Communication to the topic**

- 15.20-15.30 Mechanical stretch induces hair regeneration through the alternative activation of macrophages  
*SY Chu, CC Chen, O. K. Lee*  
National Yang Ming University and Taipei Veterans General Hospital, Taiwan

## 15.30-16.15 COFFEE BREAK AT THE EXHIBITION AREA AND POSTERS DISCUSSION ON SITE (ODD numbers)

16.15-16.45 **JAK Inhibitor CTP-543: Interim Results from a Phase 2 Trial in Alopecia Areata**

Room AUDITORI

Chief Development Officer, Concert Pharmaceuticals, Inc. - James Cassella

*Sponsored by*

16.15-16.45 **How does genomics increase the efficacy of antialopecic treatment?**

Room TRAMUNTANA

Speakers - Oscar Muñoz, Mariana Díaz

*Sponsored by*

## 16.45-18.15 TRICHOSCOPY AND OTHER DIAGNOSTIC TOOLS

Room AUDITORI



Rodrigo Pirmez



Antonella Tosti



Maria Abril Martinez Velasco



Bianca Maria Piraccini



Lidia Rudnicka



Curtis Thomson



Norma Vazquez



Gabriella Fabbrocini



Daniel Asz Sigall

**Chairs** *Antonella Tosti, Daniel Asz Sigall*

16.45-16.52	<b>How to learn trichoscopy</b> Rodrigo Pirmez
16.52-16.59	<b>Trichoscopy: what is important to know</b> Antonella Tosti
16.59-17.06	<b>How to choose the best instrument for your needs?</b> Maria Abril Martinez Velasco
17.06-17.11	<b>Trichoscopy: what's new</b> Bianca Maria Piraccini
17.11-17.18	<b>Trichoscopy: what I foresee for the future</b> Lidia Rudnicka
17.18-17.25	<b>Physiochemical Hair Analysis Identifying Titanium in Frontal Fibrosing Alopecia</b> Curtis Thomson
17.25-17.32	<b>Optical coherence tomography (OCT) in scalp disorders</b> Norma Vazquez
17.32-17.39	<b>Reflectance Confocal Microscopy in Hair Disorders</b> Gabriella Fabbrocini
17.39-17.46	<b>Conclusions and closing remarks</b> Daniel Asz Sigall

### Free Communications to the topic

17.45-17.55	<b>Trichoscopic dynamic reflectance microscopy in atrichia with papular lesions</b> Macedo-Perez M*, Asz-Sigall Daniel*, Duran-Mackinster C**, Roldan-Marin R*, Arenas-Guzman R***, Lopez-Ornelas AF*, Franco-Marin AC*, Martinez-Velasco MA* *Clinica Oncodermatología, Universidad Nacional Autónoma de México; **Departamento Dermatología, Instituto Nacional de Pediatría; ***Micología, Hospital General Manuel Gea Gonzalez. México
17.55-18.05	<b>A validated Trichoscopic Activity Scale for Folliculitis Decalvans</b> D. Saceda-Corralo <sup>(1,4)</sup> , OM. Moreno-Arrones <sup>(1,4)</sup> , R. Rodriguez-Barata <sup>(1,4)</sup> , M. Rubio-Lambrana <sup>(2)</sup> , J.F. Bonafé-Mir <sup>(3)</sup> , C. Morales-Raya <sup>(4)</sup> , Á. Hermosa-Gelbard <sup>(1)</sup> , S. Vaño-Galván <sup>(1,4)</sup> <sup>1</sup> Ramón y Cajal University Hospital, Madrid, Spain; <sup>2</sup> Mendaro Hospital, Guipuzcoa, Spain; <sup>3</sup> Santa Creu i Sant Pau University Hospital, Barcelona, Spain; <sup>4</sup> Grupo de Dermatología Pedro Jaén, Madrid. Spain
18.05-18.15	<b>Psoriasiform eczema-like and hair loss in women undergoing straighten hair: clinical and dermoscopic findings of 13 cases</b> LE Sanchez-Dueñas*, A Ruiz-Dueñas**, E Guevara-Gutierrez**, JA Tlacuilo-Parra*** *Centro de Restauración Capilar-Dermika Centro Dermatológico Láser; **Dermatology Department-Instituto Dermatológico de Jalisco "Dr. José Barba Rubio"; ***UMAE-Pediatric Hospital CMNO-IMSS-Guadalajara. Mexico

## 16.45-18.15 HAIR PIGMENTATION/HAIR GRAYING

Room TRAMUNTANA



Desmond J. Tobin



Carlos Clavel



Ralf Paus



Emi Nishimura

**Chairs** *Desmond Tobin, Emi Nishimura*

16.45-17.05	<b>The multiple faces of cutaneous melanocytes - Harlequins and Chameleons</b> Desmond J. Tobin
17.05-17.25	<b>Role of senescence during hair graying</b> Carlos Clavel
17.25-17.45	<b>Under-investigated major regulators of the human hair follicle pigmentary unit</b> Ralf Paus

### Free Communications to the topic

17.45-17.55	<b>A biomimetic peptide use to counteract the appearance of grey hair</b> *J. Attia, **M. Borel, ***E. Loing *IFF-Lucas Meyer Cosmetics, Toulouse, France, **IFF-Lucas Meyer Cosmetics, Champlan, France, ***IFF-Lucas Meyer Cosmetics, Québec, Canada
17.55-18.05	<b>Development of a model of aged dermal papilla cells for the study of miRNAs associated with hair aging</b> C. Serre, A. Perrin, C. Gondran, K. Cucumel, J.M. Botto Ashland Global Skin Research Center, Sophia-Antipolis, France
18.05-18.15	<b>An eqtl in syntaxin17 (stx17) leads to disrupted melanogenesis in alopecia areata</b> S.O. Erjavec, R. Gund, A.M. Christiano Department of Dermatology, Columbia University. USA





Jorge Ocampo-Candiani



Fernando Magill

**Chairs** *Jorge Ocampo-Candiani, Fernando Magill*

- 18.15-18.30 **Adherence to treatment further enhances effectiveness of a nutraceutical for telogen effluvium**  
**R. Rodrigues<sup>1</sup>, G. Moreno<sup>2</sup>, S. Arias<sup>3</sup>, A. Camps<sup>2</sup>**  
<sup>1</sup> Department of Dermatology Ramón y Cajal, Madrid; <sup>2</sup> Centro Médico Teknon, Grupo Quirónsalud; <sup>3</sup> Hospital Universitario Virgen del Rocío, Granada, España.
- 18.30-18.45 **Hair loss patterns in women with Telogen Effluvium**  
**D.A.Guzmán-Sánchez<sup>1</sup>, A.J. McMichael<sup>2</sup>, J. Shapiro<sup>3</sup>**  
<sup>1</sup> School of Medicine, Universidad de Guadalajara, Guadalajara, México; <sup>2</sup> Dep. Dermatology, Wake Forest School of Medicine Winston-Salem, North Carolina USA; <sup>3</sup> Dep. Dermatology, New York University NY USA
- 18.45-18.55 **Review of medications implicated in telogen effluvium**  
**A. Manatis-Lornell, D. Marks, D. Hagigeorges, J. Okhovat, M. Senna**  
 Department of Dermatology, Massachusetts General Hospital, Boston, MA. USA
- 18.55-19.05 **Vitamin D levels in mexican patients with telogen effluvium: case series**  
**LE Sanchez-Dueñas\*, A Ruiz-Dueñas\*\*, E. Guevara-Gutierrez\*\*, JA. Tlacuilo-Parra\*\*\***  
 \*Centro de Restauración Capilar-Dermika Centro Dermatológico Láser; \*\*Dermatology Department-Instituto Dermatológico de Jalisco "Dr. José Barba Rubio"; \*\*\*UMAE-Pediatric Hospital CMNO-IMSS-Guadalajara Mexico



Alex Camps



Francisco Jiménez

**Chairs** *Alex Camps, Francisco Jiménez*

- 18.15-18.25 **The latest hair transplant surgery research**  
**P. Bouhanna**  
 Center sabouraud, Saint-Louis Hospital, Paris, France
- 18.25-18.35 **Scalp hair reconstruction by partial longitudinal follicular unit transplantation (PL-FUT) in scarred tissue**  
**K B J. van Herwijnen**  
 Hair Science Institute. The Netherlands
- 18.35-18.45 **Hair transplantation and Stromal vascular fraction Medical treatment and hair transplantology center "HairMed"**  
 Dnipro. Ukraine
- 18.45-18.55 **Combining autologous micro-grafting & platelet rich plasma with hair transplantation for the treatment of female pattern hair loss**  
**S. Zari**  
 Faculty of Medicine, University of Jeddah, Saudi Arabia
- 18.55-19.05 **Follicular unit excision-where we are today**  
**G. Kuka Epstein**  
 Foundation for Hair Restoration. Miami. USA

FRIDAY 26<sup>th</sup> APRIL, 2019

08.00

## ASK THE EXPERTS

Room GARBI



Elise A. Olsen



Angela M. Christiano



Ralf Paus



Rod Sinclair



Colin Jahoda



Wilma Bergfeld



Jerry Shapiro



Alex Ginzburg



Ulrike Blume-Peytavi



Xingqi Zhang

Elise A. Olsen (USA)

Angela M. Christiano (USA)

Ralf Paus (UK)

Rod Sinclair (Australia)

Colin Jahoda (UK)

Wilma Bergfeld (USA)

Jerry Shapiro (USA)

Alex Ginzburg (Israel)

Ulrike Blume-Peytavi (Germany)

Xingqi Zhang (Xina)

10 experts, (each sitting in a round table) who will answer specific questions made by the Congress attendants.

Open to all attendees on a first-come, first served basis.

This will be an informal session for small groups to discuss with an expert.

## 08.30-09.00 AUTOLOGOUS MICRO-GRAFTING IN THE MANAGEMENT OF THE ANDROGENETIC ALOPECIA

Room AUDITORI

Speaker - Shadi Zari

Sponsored by



## 08.30-09.00 SCALP SEBORRHEIC DERMATITIS AND MICROBIOME: WHAT'S NEW?

Room TRAMUNTANA

Sponsored by



08.30-08.45 Scalp Microbiome and its impact on Seborrheic Dermatitis - Ramon Grimalt

08.45-08.55 Scientific &amp; Clinical Evidence of Dermocosmetics in Seborrheic Dermatitis - Ariadna Ortiz

08.55-09.00 Discussion



Juan Ferrando



Julio Salas



Yuval Ramot

**Chairs** *Juan Ferrando, Yuval Ramot*

09.00-09.20 **Diagnostic and therapeutics clues in Hair Dysplasia**  
Juan Ferrando

09.20-09.40 **From Syndrome Sabinas to TTD**  
Julio Salas

09.40-10.00 **Childhood alopecia areata, Update on treatment**  
Yuval Ramot

#### Free Communications to the topic

10.00-10.10 **Prevalence of comorbidities among pediatric patients with alopecia areata**  
R. Conic, N. Mesinkovska\*, G. Damiani, M. Piliang, W. Bergfeld  
Cleveland Clinic, Cleveland, OH; \*University of California Irvine, Irvine, CA. USA.

10.10-10.20 **Congenital trichorrhexis nodosa: case report and dermoscopic findings**  
K.M. Vargas Andrade, I.G. Mesa Garza, R.A. Gonzalez-Ramirez \*, N.E. Espinoza-Gonzalez \*<sup>2</sup>  
Instituto Mexicano del Seguro Social, \*<sup>1</sup> Universidad Autónoma de Nuevo León, \*<sup>2</sup> Universidad de Monterrey. Mexico

10.20- 10.30 **Pili Annulati complicated with trichorrhexis nodosa: A report of a Chinese family**  
X.Chen, X.Li, X.Yao, J.Zhang, C.Zhou  
Peking University People's Hospital. China



Michael Rendl



Young Kwan Sung



Nikolaos Pantelireis



Ralf Paus

**Chairs** *Michael Rendl, Young Kwan Sung*

09.00-09.15 **Control and Timing of Dermal Condensate Fate Specification**  
Michael Rendl

09.15-09.30 **Role of tissue non-specific alkaline phosphatase in trichogenic activity of 3D-cultured human dermal papilla cells**  
Young Kwan Sung

09.30-09.45 **Modelling Epigenetic Changes Regulating Hair Follicle Induction**  
Nikolaos Pantelireis

09.45-10.00 **Dermal papilla tuning to promote human scalp hair growth: Principles, common misconceptions, and the key role of SFRP1**  
Ralf Paus

#### Free Communications to the topic

10.00-10.10 **SOX2 in the dermal papilla regulates hair follicle pigmentation**  
J. Ng, J. Lim, Y. Tan, D. Quek, Z. Lim, K. Sim, C. Clavel  
Hair & Pigmentation Development, Skin Research Institute of Singapore (SRIS), Singapore, Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore

10.10-10.20 **Utilising the biochemical properties of hair follicle dermal papilla cells to accelerate wound healing in human skin**  
H. Topouzi\*, C. J. Boyle\*, G. Williams\*\* and C. A. Higgins\*  
\*Department of Bioengineering, Imperial College London, UK; \*\*Farjo Hair Institute, London, UK



10.30 JOHN EBLING LECTURE

Room AUDITORI



Bianca M. Piraccini



Abraham Zlotogorski



Valerie Randall

**Chairs** Bianca M. Piraccini, Abraham Zlotogorski

**Speaker** Valerie Randall

11.00-11.30 COFFEE BREAK AT THE EXHIBITION AREA AND POSTERS VIEWING

11.30-13.00 MECHANICAL (PHYSICAL) THERAPY FOR HAIR DISEASES

Room AUDITORI



Rubina Alves



Rachita Dhurat



Rui Oliveira-Soares



Joaquin J. Jiménez



Bianca M. Piraccini

**Chairs** Bianca M. Piraccini, Rubina Alves

11.30-11.45 PRP in androgenetic alopecia  
Rubina Alves

11.45-12.00 Microneedling in androgenetic alopecia  
Rachita Dhurat

12.00-12.15 Low Level Laser therapy in hair disorders  
Joaquin J. Jiménez

12.15-12.30 How to combine physical therapies with hair transplant  
Rui Oliveira

12.30-12.45 Mechanical (Physical) therapy for hair diseases: news and views  
Bianca M. Piraccini

12.45-13.00 Discussion and Questions

11.30-13.00 GENOTRICHOSIS

Room TRAMUNTANA



Arti Nanda



Yuval Ramot



Lidia Rudnicka



Regina Betz

**Chairs** Regina Betz, Arti Nanda

11.30-11.45 Congenital Hypotrichosis: Genotypic & Phenotypic Correlation  
Arti Nanda

11.45-12.00 Keratin-specific hair disorders: new finding and treatment strategies  
Yuval Ramot

12.00-12.15 How trichoscopy can help identifying genotrichoses  
Lidia Rudnicka

12.15-12.30 What's new in hypotrichosis research?  
Regina Betz

**Free Communications to the topic**

12.30-12.40 Oral minoxidil - a novel and promising treatment in the management of monilethrix  
D. Cummins, N. Chiang, M. Harries\*  
The Dermatology Centre, Salford Royal NHS Foundation Trust, Manchester, United Kingdom \*University of Manchester, Manchester, UK

12.40-12.50 Hypotrichosis with juvenile macular dystrophy: a case report  
F.T. Almeida, R.C. Freitas, A.P. Vieira, C. Brito  
Hospital de Braga, Portugal

12.50-13.00 Alopecia areata and nail dystrophy in a patient with autoimmune polyendocrinopathy candidiasis ectodermal dystrophy (apeced) syndrome  
E. Mack, C. McCourt  
Royal Victoria Hospital, Belfast, United Kingdom



Ralph Trüeb



Rachita Dhurat

**Chairs** *Ralph Trüeb, Rachita Dhurat*

- 13.00-13.10 **Optimisation of platelet rich plasma separation method by preliminary sedimentation**  
R. Arpitha, R. Pawadshettar  
Sai Susrut hospital and diagnostics, Gadag, India
- 13.10-13.20 **Beyond "platelet rich plasmas". Autologous blood biomaterials and androgenetic alopecia, a ten-year experience**  
G. Schiavone, D. Abeni, A. Paradisi\*, P. Pallotta, M. Viviano, D. Ciccone, L. Rota  
I.D.I., I.R.C.C.S. Rome. Italy
- 13.20-13.30 **The efficacy of combination therapy with low-level light therapy plus minoxidil 5% solution versus minoxidil 5% solution monotherapy in the treatment of androgenetic alopecia**  
M. Goldust, H. Alipour  
Tabriz University of Medical sciences. Iran

- 13.30-13.40 **Hair follicle regrowth in alopecia patients after fractional photothermolysis - a pilot study**  
M. Juhasz\*, C. Ekelem\*, N. Sabouni\*\*, J. Lin\*\*, E. Csuka\*, J.X. Yu,\*\*\* E. Heidari,\*\*\* Z.P. Chen,\*\*\* N.A. Mesinkovska\*  
\*University of California, Irvine, Department of Dermatology, \*\*University of California, Irvine, School of Medicine, \*\*\*University of California, Irvine, Beckman Laser Institute. USA
- 13.40-13.50 **Teaser series: minoxidil and dutasteride drug tattooing for androgenic alopecia Beyond "platelet rich plasmas"**  
C. Wambier, B. King  
Department of Dermatology - Yale University School of Medicine. USA.
- 13.50-14.00 **The Effect of Daily Aspirin Use on Topical Minoxidil Treatment for Pattern Hair Loss**  
A. Goren  
University of Rome "G.Marconi". Italy

## 13.00-13.50 DRUG INDUCED ALOPECIA: FREE COMMUNICATIONS

## Room TRAMUNTANA



Rubina Alves



David Saceda

**Chairs** *Rubina Alves, David Saceda*

- 13.00-13.10 **Prophylactic treatment with a small molecule protects breast cancer patients from the development of chemotherapy induced alopecia**  
A. Goren  
University of Rome (G.Marconi) Italy
- 13.10-13.20 **Chemotherapy-induced irreversible alopecia in patients with breast cancer - a comparison of the literature with own cases**  
G. Lutz  
Hair & Nail Medicine, Bonn, Germany
- 13.20-13.30 **Capillary reactions of new targeted therapies directed against cancer**  
JF Mir-Bonafé\*, JM Mir-Bonafé\*\*, M Mir-Bonafé\*\*\*, J Piquero-Casals\*\*\*\*, D. Saceda-Corralo\*\*\*\*\*, S. Vaño-Galván\*\*\*\*\*  
\*Hospital de la Santa Creu i Sant Pau; \*\*Clínica Juaneda; \*\*\*Hospital Universitario Central de Asturias; \*\*\*\*Clínica Dermik; \*\*\*\*\*Hospital Universitario Ramón y Cajal. Spain.
- 13.30-13.40 **Persistent post-chemotherapy alopecia: clinical characterization, impact on quality of life and treatment outcomes**  
A. Freites-Martinez, D. Chan, V. Sibaud, J. Shapiro, G. Fabbrocini, A. Tosti, J. Cho, S. Goldfarb, S. Modi, D. Gajria, L. Norton, R. Paus, T. Cigler, and M. Lacouture  
Memorial Sloan Kettering Cancer Center, New York, New York, USA
- 13.40-13.50 **The LXR agonist T0901317 protects hair follicle keratinocytes from chemotherapy induced damage**  
E. Smart\*, O. Alenkhe\*\*, M. Palmer\*\*, B. Barnes\*, I. Haslam\*\*, R. Paus\*  
\*Division of Musculoskeletal and Dermatological Sciences, The University of Manchester, United Kingdom; \*\*Department of Biological Sciences, University of Huddersfield, Huddersfield, United Kingdom

## 14.00-15.30 FRONTAL FIBROSING ALOPECIA

Room AUDITORI



Rui Oliveira



Rod Sinclair



Sergio Vaño-Galván



Adriana Rakowska



Rodrigo Pirmez

**Chairs** Sergio Vaño-Galván, Rui Oliveira

- |             |  |
|-------------|--|
| 14.00-14.20 | What's new in etiopathogenesis<br>Christos Tziotzios                                   |
| 14.20-14.30 | The role of sunscreens and other environmental factors in FFA<br>Rod Sinclair          |
| 14.30-14.40 | Frontal fibrosing alopecia: what's new in clinical presentation<br>Sergio Vaño-Galván  |
| 14.40-14.50 | What's new in diagnosis (trichoscopy, diagnostic criteria, scales)<br>Adriana Rakowska |
| 14.50-15.00 | What's new in treatment<br>Rodrigo Pirmez  |
| 15.00-15.10 | My diagnostic and therapeutic pearls in FFA<br>Jerry Shapiro                           |



Christos Tziotzios



Jerry Shapiro

### Free Communications to the topic

- |             |   |
|-------------|---|
| 15.10-15.20 | Is frontal fibrosing alopecia a new clinical presentation of contact dermatitis?<br>A. Combalia, N. Martinez, S. Gómez-Armayones, JM. Mascaró, J. Ferrando<br>Department of Dermatology, Hospital Clínic, University of Barcelona, Spain  |
| 15.20-15.30 | Study of aryl hydrocarbon receptor in patients with lichen planopilaris and frontal fibrosing alopecia<br>I. Doche*, M. Hordinsky**, G.L. Wilcox**, M.C. Rivitti-Machado*, R. Romiti*, N.Valente*, M. Saldanha*, M.N. Sotto*<br>*University of Sao Paulo (BRASIL); ** University of Minnesota (USA) |

## 14.00-15.30 HAIR FOLLICLE AGING

Room TRAMUNTANA



Ralph Trüeb



Won-Soo Lee



Emi Nishimura

**Chairs** Won Soo Lee, Kevin McElwee

- |             |   |
|-------------|---|
| 14.00-14.20 | Comment on the Science of Hair Aging<br>Ralph Trüeb                 |
| 14.20-14.40 | Hair Photoaging and Integral Hair Lipid.<br>Won-Soo Lee             |
| 14.40-15.00 | Stem cell division program for hair follicle aging<br>Emi Nishimura |

### Free Communications to the topic

- |             |   |
|-------------|---|
| 15.00-15.10 | Age-related changes in the extracellular matrix of female scalp dermal fibroblasts and hair follicle dermal sheath cells: do they contribute to hair ageing?<br>R. Sedman, D.J. Tobin*, G.E. Westgate, A.D. Pawlus**, M.J. Thornton<br>Centre for Skin Sciences, University of Bradford, Bradford, UK * Charles Institute of Dermatology, University College Dublin, Dublin, Ireland **Aveda, Hair Innovation & Technology, USA |
| 15.10-15.20 | Hair follicles are able to synthesise glycogen from lactate: understanding glycogen metabolism and cori cycle in human hair follicle biology<br>K. Figlak, R. Paus*, G. Williams**, N. Farjo**, B. Farjo**, M. Philpott<br>CBCR, Blizard Institute, QMUL, London, UK. *CDR, University of Manchester, UK; Dept. of Dermatology & Cutaneous Surgery, University of Miami, USA. **Farjo Medical Centre, Manchester, UK.           |
| 15.20-15.30 | Hypoxia, hif1a and hair follicle metabolism<br>K. F. Shah, *M. Davis, *A. Peplow, *Y. DeAngelis, **B. Farjo, **N. Farjo, **G. Williams and M. Philpott<br>Blizard Institute Barts and The London School of Medicine and Dentistry, Queen Mary University London, UK; *Procter and Gamble, USA; **Farjo Medical Centre, Manchester, UK   |



**15.30-16.15 COFFEE BREAK AT THE EXHIBITION AREA AND POSTERS DISCUSSION ON SITE (PAIR numbers)**

**16.15-17.45 PSYCHOLOGICAL ASPECTS OF HAIR DISEASE**

Room AUDITORI



Michela Starace



Ramon Grimalt



André Lencastre

**Chairs** *Ramon Grimalt, Michela Starace*

- |             |   |
|-------------|---|
| 16.15-16.35 | <b>HrQoL in hair loss: The role of personality traits and psychosocial anxiety</b><br>Michela Starace |
| 16.35-16.55 | <b>Trychopsychodermatology or psychological aspects of hair disease</b><br>Ramon Grimalt              |
| 16.55-17.15 | <b>Auto- induced hair-loss</b><br>André Lencastre   |

**Free Communications to the topic**

- |             |  |
|-------------|--|
| 17.15-17.25 | <b>Adaptive and maladaptive behavior in alopecia patients: how clinicians can influence both</b><br>R. Barkauskaite<br>National Alopecia Association. Lithuania  |
| 17.25-17.35 | <b>Suffering in women with frontal fibrosing alopecia</b><br>A.C. Leite Jr., D. G. Ramos<br>Pontificia Universidade Católica de São Paulo. Brazil  |
| 17.35-17.45 | <b>Patient reported stress caused by scalp alopecia in transpeople</b><br>D. Marks, D. Hagigeorges, A. Manatis-Lornell, J. Okhovat, M. Senna<br>Department of Dermatology, Massachusetts General Hospital, Boston, MA, USA |

**16.15-17.35 NEOGENESIS AND TISSUE ENGINEERING**

Room TRAMUNTANA



Luis Garza



Ben Miranda



Talveen Purba



Valerie Randall

**Chairs** *Luis Garza, Valerie Randall*

- |             |  |
|-------------|--|
| 16.15-16.40 | <b>Prostaglandin control of hair regeneration</b><br>Luis Garza  |
| 16.40-16.55 | <b>Prostaglandin-F2alpha stimulates intermediate and terminal human hair follicles in organ culture</b><br>Ben Miranda     |
| 16.55-17.10 | <b>Progenitors, proliferation and prostaglandins: Heterogeneity of the human anagen outer root sheath</b><br>Talveen Purba |
| 17.10-17.35 | <b>Prostaglandins and prostamides in human hair follicles</b><br>Valerie Randall   |

**17.45 EHRS GENERAL ASSEMBLY (invitation only)**

Room TRAMUNTANA

**19.45 GALA DINNER**

- The Gala Dinner will be held in FINCA MAS SOLERS at 7.30 pm

**Price per person:** 60 €

**Address:** Ctra. Vilanova a Sant Pere de Ribes, BV-2112, 08810 Sant Pere de Ribes, Barcelona

**Transport by bus:**  
From Hotel Melia Sitges 7:15 pm  
From Hotel Calipolis  
(Sitges center) 7:15 pm



SATURDAY 27<sup>th</sup> APRIL, 2019

## 08.00-09.00 ASK THE INDUSTRY

Room GARBI

The room will be set with 10 tables, each of one with an expert of the following Companies.  
Open to all attendees on a first-come, first served basis. This will be an informal session for small groups to discuss with an expert.

Aderans

CESARE RAGAZZI  
LABORATORIES

TrichoLAB



## 09.00-10.28 CLINICAL CASES FROM EASTERN EUROPE

Room AUDITORI



Yuliya Ovcharenko



Kuzma Khobzey



Inessa Serbina



Nino Lortkipanidze



Nino Khutsishvili



Adriana Rakowska



Yulija Gallyamova



Inga Zemite



Andrei Doroshkevich



Tatiana Siliuk



Svetlana Ledentsova

**Chairs** *Yuliya Ovcharenko, Tatiana Siliuk, Nino Lortkipanidze*

09.00-09.08	Combined diffuse and patchy hair heterochromia with Blaschkoid distribution Yuliya Ovcharenko
09.08-09.16	Scaring Alopecia in Psoriasis Kuzma Khobzey
09.16-09.24	Alopecia areata: focus on comorbidity Inessa Serbina
09.24-09.32	Hair loss disorders simulating Androgenetic Alopecia Nino Lortkipanidze
09.32-09.40	Psoriasis and concomitant hair loss. Nino Khutsishvili
09.40-09.48	Hair loss in the frontal hair line Adriana Rakowska
09.48-09.56	Our experience of treatment dissecting cellulitis of the scalp with combination of hidradenitis suppurativa/acne inversa Yulija Gallyamova
09.56-10.04	FFA treated with i/lesional corticoid in combination with PRP and N2O Inga Zemite
10.04-10.12	Three cases of scleroderma. Trichoscopic features at the early stages Svetlana Ledentsova
10.12-10.20	Alopecia areata - MPHL like pattern Andrei Doroshkevich
10.20-10.28	LPP and hair transplantation: do they grow? Trichoscopic view Tatiana Siliuk



## 09.00-10.25 NEXT GENERATION SEQUENCING APPROACHES

Room TRAMUNTANA



Ralph Trüeb



Scott Atwood



Gioele La Manno

**Chairs** *Maria Kasper, Michael Rendl*

09.00-09.25 **Skin, a symphony of single cells**  
Maria Kasper

09.25-09.50 **Epithelial stem cell heterogeneity and its functional consequences**  
Scott Atwood

09.50-10.10 **RNA velocity of single cells - predicting differentiation from differentiation**  
Gioele La Manno

**Free Communication to the topic**

10.10-10.25 **Bacterial microbiome extends below the infundibulum of healthy scalp follicles - finding of a potential relevance for hair physiology and scalp diseases**  
K. Polak-Witka<sup>(1,2)</sup>, A. Constantinou<sup>(1)</sup>, S. Hadam<sup>(1)</sup>, J. Helmuth<sup>(3)</sup>, R. Schwarzer<sup>(3)</sup>, A. Edelmann<sup>(3)</sup>, A. Wießner<sup>(1)</sup>, J. Hoffmann<sup>(1)</sup>, A. Moter<sup>(1)</sup>, L. Rudnicka<sup>(2)</sup>, U. Blume-Peytavi<sup>(1)</sup>, A. Vogt<sup>(1)</sup>  
<sup>1</sup> Charité - Universitätsmedizin Berlin, Germany; <sup>2</sup> Medical University of Warsaw, Poland; <sup>3</sup> Labor Berlin - Kompetenz von Charité und Vivantes, Germany

## 10.30 KEYNOTE LECTURE: How far are we from cloning hair?

Room AUDITORI



Sergio Vañó-Galván



Ramon Grimalt



Claire Higgins

**Chairs** *Sergio Vañó-Galván, Ramon Grimalt*

**Speaker** *Claire Higgins*

## 11.00-11.30 COFFEE BREAK AT THE EXHIBITION AREA AND POSTERS VIEWING

## 11.30-13.00 HAIR COSMETICS NEWS AND VIEWS

Room AUDITORI



Maria Fernanda Gavazzoni



Amy McMichael



Vicky Jolliffe



Ralph Trüeb

**Chairs** *Maria Fernanda Gavazzoni, José Cucchia*

11.30-11.45 **When and how to prescribe a hair cosmetic**  
Maria Fernanda Gavazzoni

11.45-12.00 **Adverse effects of hair cosmetics**  
Amy McMichael

12.00-12.05 Discussion

12.05-12.15 **What's new in hair cosmetics**  
Vicky Jolliffe

12.15-12.25 **Hair cosmetics for the aging hair**  
Ralph Trüeb

12.25-12.30 Discussion

**Free Communications to the topic**

12.30-12.40 **Evidence for caucasian and afro-ethnic hair fiber damage after chemical and physical processes**  
L. Bloch, C. Escudeiro, F. Sarruf  
Center: IPClin, IAMSPE, São Paulo - Brazil

12.40-12.50 **Transepidermal uva+uvb radiation of human scalp skin induces extensive hair follicle damage, which is alleviated by topical caffeine treatment**  
J. Gherardini<sup>(1)</sup>, J. Wegner<sup>(1)</sup>, J. Chéret<sup>(2)</sup>, S. Ghatak<sup>(1)</sup>, J. Lehmann<sup>(1)</sup>, M. Alam<sup>(3)</sup>, F. Jimenez<sup>(3)</sup>, R. Paus<sup>(2,4)</sup>, M. Bertolini<sup>(1)</sup>  
<sup>1</sup> Monasterium Laboratory, Muenster, Germany; <sup>2</sup> University of Miami, Miami, USA; <sup>3</sup> Mediteknia Skin & Hair Lab, Las Palmas, Spain; <sup>4</sup> University of Manchester, Manchester, UK

12.50-13.00 **Deleterious effects of air pollution on scalp and hair**  
S. Mine, X. Wang\*, J. Zhang\*, L. Danoux, Z. Rao\*, I. Bonnet, C. D'erveville, C. Kalem, V. Andre-Frei  
BASF Beauty Care Solutions, France \*BASF Advanced Chemicals Co, Shanghai\*



## 11.30-13.00 HISTOPATHOLOGY (in memory of David Whiting)

Room TRAMUNTANA



Mariya Miteva



Laila El-Shabrawi-Caelen



Paradi Mirmirani



Lynne Goldberg

**Chairs** *Mariya Miteva, Laila El-Shabrawi-Caelen*

11.30-11.45	Lessons learned from biopsies of Frontal Fibrosing Alopecia: what's new? <i>Mariya Miteva</i>
11.45-12.00	Challenging hair cases with clinico-pathological correlation <i>Laila El-Shabrawi-Caelen</i>
12.00-12.15	Teasing it out: pearls in the histopathology of traction alopecia <i>Paradi Mirmirani</i>
12.15-12.30	Lessons learned from hair pathology consults <i>Lynne Goldberg</i>

**Free Communications to the topic**

12.30-12.40	<b>Lichen planopilaris versus frontal fibrosing alopecia: histopathologically distinct diseases or not?</b> <i>D. Özcan, D. Seçkin, A.T. Güleç, Ö. Özen*</i> Departments of Dermatology and *Pathology, Başkent University Faculty of Medicine, Ankara, Turkey
12.40-12.50	<b>Frontal Fibrosing Alopecia. ¿A variant of Lichen Planus Pilaris, or an independent entity? Clinicopathologic and immunohistochemical study of 73 cases.</b> <i>C. Bernárdez<sup>(1)</sup>, Y. Pérez<sup>(2)</sup>, A. Molina-Ruiz<sup>(3)</sup>, L. Requena<sup>(3)</sup></i> <sup>(1)</sup> Servicio Dermatología Hospital Ruber Juan Bravo Madrid; <sup>(2)</sup> Servicio Anatomía patológica y; <sup>(3)</sup> Servicio Dermatología Hospital Fundación Jiménez Díaz, Madrid. Spain
12.50-13.00	<b>A Histopathological study of sebaceous glands in androgenetic patients - inspired by in vivo multiphoton microscopy findings of superficial sebaceous glands</b> <i>J. Lin, M. Valdebran, L. Doan, N. Mesinkovska</i> University of California, Irvine. USA

## 13.00 CLOSING CEREMONY

<i>Presentation of Poster &amp; Oral Awards</i>	<i>Scientific Committee</i>
<i>EHRs awards</i>	<i>Bianca M. Piraccini</i>
<i>Jurgen Schweizer Award</i>	<i>Sponsored by l'Oréal: Jean-François Michelet, Nilofer Farjo</i>
<i>Final Remarks</i>	<i>Bianca Maria Piraccini, Manabu Ohyama, Maria Hordinsky, Gwang Seong Choi</i>
<i>Announcement of 2021 WCHR Australia</i>	<i>Rod Sinclair</i>
<i>Closing remarks</i>	<i>Juan Ferrando, Ramon Grimalt, Sergio Vañó Galván</i>

# POSTERS

## TOPIC: Alopecia Areata

- P001 Oral tofacitinib for severe alopecia areata. Experience in mexican patients.**  
*Y. Morales, G. Bueno, R. Tovar*  
Unidad de Especialidades Médicas, SEDENA. Mexico.
- P002 Elucidation of demographic, clinical, and trichoscopic features facilitating the early diagnosis of self-healing acute diffuse and total alopecia.**  
*M. Fukuyama, M. Kinoshita-Ise, Y. Sato, M. Ohyama*  
Department of Dermatology, Kyorin University School of Medicine, Tokyo, Japan.
- P003 Increasing Prevalence of Alopecia Areata in South Korea.**  
*J. Choi, S. Kim, G. Choi\*, Y. Kim, B. Soh*  
Department of Dermatology, Ajou University, School of Medicine, Suwon, Korea\* Department of Dermatology, Inha University School of Medicine, Incheon, Korea.
- P004 Association between alopecia areata and autoimmune thyroid diseases: a systematic review and meta-analysis.**  
*M. Kinoshita-Ise\* <sup>(1,2)</sup>, S.A. Martinez-Cabral\* <sup>(1)</sup>, N.H. Shear\* <sup>(1)</sup>, R. Alhusayen\* <sup>(1)</sup>*  
Division of Dermatology, Department of Medicine, Sunnybrook Health Sciences Centre, University of Toronto <sup>(1)</sup> Department of Dermatology, Kyorin University School of Medicine <sup>(2)</sup>
- P005 A systematic review on treatment for facial alopecia areata.**  
*A. Murad <sup>(a)</sup>, C. Harnett <sup>(b)</sup>, R. Conic <sup>(b)</sup>, W. Bergfeld <sup>(b)</sup>*  
Mater Misericordiae University Hospital, Dublin, Ireland <sup>(a)</sup>, Cleveland Clinic Foundation, Ohio, USA <sup>(b)</sup>
- P006 CTP-543, a JAK1/JAK2 inhibitor, achieves primary endpoint in interim analysis of phase 2 trial in alopecia areata.**  
*J. Cassella, C. Hamilton, J. von Hehn, V. Braman*  
Concert Pharmaceuticals, Lexington, MA, USA.
- P007 Phototherapy as succesfull treatment for diffuse alopecia areata.**  
*H.V. Martinez*  
Marsu dermatologia. Mexico.
- P008 The benefits and harms of 308-nm excimer laser treatment for alopecia areata: A systematic review and meta-analysis of randomized controlled trials.**  
*J.H. Lee, S.H. Eun, R.W. Lee, G.M. Kim, JM Bae*  
Department of Dermatology, St. Vincent's Hospital, College of Medicine, The Catholic University of Korea, Suwon, Korea.
- P009 Dermatitis Neglecta of the Scalp Complicated with Alopecia Areata: A Case Report.**  
*X. Chen, X. Li, X. Yao, J. Zhang, C. Zhou*  
Peking University People's Hospital. China.
- P010 Treatment of alopecia universalis with topical Janus kinase (JAK) inhibitors - a double blind, placebo and active controlled pilot study.**  
*L. Bokhari, R. Sinclair*  
Sinclair Dermatology. Australia.
- P011 Minoxidil-Induced Hypertrichosis in Pediatric Alopecia Areata.**  
*C. Pham, C. Ekelem, N. Mesinkovska*  
University of California, Irvine. USA.
- P012 Etiopathogenetic factors of development of alopecia areata.**  
*F. Azimova, Sh. Shorakhmedov*  
Republican Specialized Scientific and Practical Center for Dermatovenereology and Cosmetology of MRU, Tashkent. Uzbekistan.
- P013 Treatment of beard alopecia areata using microinfusion of minoxidil.**  
*D. Roth, F. Schalch*  
Clínica Citera & Clínica FOS. Brazil.
- P014 The current costs of treating alopecia areata in a UK secondary care setting.**  
*RC Phillips, S. Holmes*  
Alan Lyell Centre for Dermatology, Queen Elizabeth University Hospital, Glasgow, UK.
- P015 Treatment of diffuse alopecia areata using cyclosporine microinfusion into the scalp.**  
*D. Roth, F. Schalch*  
Clínica Citera & Clínica FOS. Brazil.
- P016 Gain-switched 311-nm ti: sapphire laser treatment for alopecia areata: a pilot study.**  
*J H Lee, S H Eun, RW Lee, G M Kim, J.M. Bae*  
Department of Dermatology, St. Vincent's Hospital, College of Medicine, The Catholic University of Korea, Suwon, Korea.
- P017 Nail abnormalities are associated with disease severity in alopecia areata.**  
*R. Conic, P. Rambhia, N. Mesinkovska\*, M. Piliang, W. Bergfeld*  
Cleveland Clinic, Cleveland, OH; \*University of California Irvine, Irvine, CA. USA.
- P018 Updates in therapeutics for pediatric alopecia areata: a systematic review with evidence-based analysis.**  
*P. Rambhia\*,\*\*; R. Tripathi\*, R. Conic\*/\*\*, A. Murad\*\*\*, N. Atanaskova-Mesinkovska\*/\*\*\*\*, M. Piliang\*, W. Bergfeld\**  
Dept. of Dermatology\*, Cleveland Clinic, Cleveland, OH, Dept. of Dermatology\*\*, Case Western Reserve University, Cleveland, OH, Dept. of Dermatology\*\*\*, Mater Misericordiae University Hospital. Ireland. Dept of Dermatology \*\*\*\* University of California Irvine, Irvine, CA
- P019 Increased prevalence of cardiac and metabolic diseases among alopecia areata patients.**  
*R. Conic, N. Mesinkovska\*, G. Damiani, M. Piliang, W. Bergfeld*  
Cleveland Clinic, Cleveland, OH; \*University of California, Irvine, CA.
- P020 Efficacy and safety of diphenylcyclopropenone (dpcp) and anthralin combination vs dpcp alone in the treatment of chronic patchy alopecia areata.**  
*S. Agrawal, R. Dhurat*  
LTMMC Mumbai. India
- P021 Nugal nevus flammeus and alopecia areata: when size matters.**  
*L. Rojano-Fritz, A. Combalia, S. Podlipnik, J. Ferrando*  
Department of Dermatology, Hospital Clinic, University of Barcelona. Spain.
- P022 Gut microbiota analysis in alopecia areata patients.**  
*O M. Moreno-Arrones, D. Saceda-Corralo, R. Rodriguez-Barata, C. Morales, J. Jimenez, C. Pindado-Ortega, P. Fonda, P. Jaen, S. Vañó-Galván*  
Hospital Universitario Ramon y Cajal, Madrid, Spain.
- P023 Alopecia areata is associated with elevated expression of TH1, TH2, TH17, and macrophage associated cytokines in peripheral blood plasma.**  
*L. Santos, H. Nakamura, G. Leung, J. Shapiro, K.J. McElwee\**  
Dept Dermatology and Skin Science, University of British Columbia, Canada. Centre for Skin Sciences, University of Bradford, United Kingdom.\*
- P024 The study of characteristics of acute diffuse and total alopecia: histopathologic and dermoscopic findings and cytokine profile.**  
*BL Lew, MJ Kang, KH Kim, WY Sim*  
Department of Dermatology, Kyung Hee University hospital at Gang-dong, Kyung Hee University School of Medicine. Korea South.

- P025** **The role of dysbiosis in alopecia areata.**  
*M. Juhasz\*, SW Chen\*\*, A. Khosravi-Eghbal\*\*\*, P. Baldi\*\*, N. Mesinkovska\**  
 \*University of California, Irvine, Department of Dermatology, \*\*University of California, Irvine, Institute of Genomics and Bioinformatics, \*\*\* St. Mary Medical Center-UCLA, Department of Medicine. USA.
- P026** **Pregnancy outcomes in tofacitinib and the application to alopecia areata.**  
*D. Hagigeorges, D. Marks, A. Manatis-Lornell, J. Okhovat, M. Senna*  
 Department of Dermatology, Massachusetts General Hospital, Boston Massachusetts, USA.
- P027** **Presence of eosinophilia and atopy mark severe alopecia areata.**  
*R. Conic, P. Rambhia, G. Damiani, N. Mesinkovska\*, M. Piliang, W. Bergfeld*  
 Cleveland Clinic, Cleveland, OH; \*University of California, Irvine, CA.
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- TOPIC: Androgenetic alopecia**
- P028** **Social selection favors offspring prone to the development of androgenetic alopecia.**  
*A. Goren*  
 University of Rome "G.Marconi". Italy.
- P029** **Expression and clinical significance of 5  $\alpha$ -reductase isoenzyme mRNA in hair follicles of male androgenetic alopecia.**  
*W. Fan, Y. Deng, Q. Wu, W. Sun*  
 Department of Dermatology, First Affiliate Hospital of Nanjing Medical University Jiangsu Province Hospital. China.
- P030** **Up-Regulation of Follicular Sulfotransferase Activity via a Novel Pathway May Increase Minoxidil Response among Androgenetic Alopecia Patients.**  
*A. Goren*  
 University of Rome "G.Marconi". Italy.
- P031** **Study on using sulfotransferase to predict minoxidil efficacy for androgenetic alopecia.**  
*W. Sun, Q. Wu, W. Fan*  
 The First Affiliated Hospital of Nanjing Medical University. China.
- P032** **Identification of the Sulfotransferase Primarily Responsible for the Bio-Activation of Topical Minoxidil.**  
*A. Goren*  
 University of Rome
- P033** **The evaluation of long-term efficacy of finasteride in Korean men with androgenetic alopecia using the basic and specific classification system.**  
*JW Shin, EH Chung\*, MB Kim\*, TO Kim\*, WI Kim\*, Chang-Hun Huh*  
 Seoul National University Bundang Hospital, Pusan National University Hospital. Korea.\*
- P034** **Function of gprc6a-duox1 signaling cascade in androgenic alopecia**  
*K. Park, Y. Bae*  
 Department of Life Sciences, Ewha Womans University, Seoul, Korea
- P035** **Experience in the treatment of Androgenetic Alopecia in Mexican patients with Dutasteride in Mesotherapy.**  
*DA Cisneros-Poireth, AY Morales-Miranda*  
 Unidad de Especialidades Medicas, SEDENA. Mexico.
- P036** **Efficacy and safety of topical finasteride in a "new" delivery system.**  
*C. Vincenzi, B. Marisaldi, A.Tosti\**  
 Private Hospital Nigrisoli, Bologna, Italy. Leonard M. Miller School of Medicine\*, University of Miami, Miami, FL, USA.
- P037** **The efficacy and safety of 5 $\beta$ -reductase inhibitors in 487 men over 50 years of age with androgenetic alopecia.**  
*MJ Kang, KH Kim, JY Choi, YJ Lee, BL Lew, WY Sim*  
 Department of Dermatology, Kyung Hee University hospital at Gang-dong, Kyung Hee University School of Medicine, Seoul, Korea.
- P038** **Noise from "visible hair" qualifying "hair growth stage" on a single image: stubble length depends on human intervention.**  
*D. Van Neste*  
 Skinterface and Brussel's Hair Clinic, Brussels, Belgium.
- P039** **Clinical study on the effectiveness and tolerability of preformed growth factors vehiculated through ionophoresis on patients with androgenetic alopecia.**  
*A. Alessandrini, M. Starace, B M Piraccini*  
 Department of Experimental, Diagnostic and Specialty Medicine- Division of Dermatology, University of Bologna, Bologna, Italy.
- P040** **Myth, belief and dogmatic thinking moves into hair science and technology during our XXI st century.**  
*D. Van Neste*  
 Skinterface and Brussels' Hair Clinic, Brussels, Belgium.
- P041** **Effectiveness and safety of low-dose oral minoxidil for male androgenetic alopecia.**  
*J. Jimenez-Cauhe, D. Saceda-Corralo, AR Rodrigues-Barata, A. Hermosa-Gelbard, D. de Perosanz-Lobo, C. Pindado-Ortega, OM Moreno-Arrones, S. Vaño-Galvan.*  
 Ramon y Cajal University Hospital, Madrid, Spain.
- P042** **Effect of iontophoresis with growth factor cocktail containing fibroblast growth factor 5-short applied on the scalp in the patients with androgenetic alopecia - a split study.**  
*BI Ro, SM Kim, HC Shin\**  
 Department of Dermatology, Myongji Hospital, Hanyang University Medical Center, Goyang-si, Gyeonggi-do\* School of Systems Biomedical Science, Soongsil University, Seoul, Korea.
- P043** **Hair growth efficacy of fermented soybean milk liquid.**  
*Y. Osada, T. Hama, K. Michibata*  
 Department of research and development, ANGFA Co., Ltd, Japan.
- P044** **Ten year analysis of 986 patients presenting with female pattern hair loss.**  
*BI Ro, HM Choi, JB Kim, SM Kim*  
 Department of Dermatology, Myongji Hospital, Hanyang University Medical Center, Goyang-si, Gyeonggi-do, Korea.
- P045** **Multiple application of intramuscular compound betamethasone is effective in the treatment of alopecia areata.**  
*Y. Ye, F. Wang, H. Cao, Y. Ling, J. Yang, Y. Yang, S. Qi, S. Li, X. Zhang*  
 Department of Dermatology, First Affiliated Hospital, Sun Yat-sen University. China.
- P046** **Androgenetic alopecia and nanofat.**  
*S. Fernández-Cañadas, S. Zamora, E. Sánchez-Largo*  
 Clínica Dermatológica Láser. Madrid. Spain.
- P047** **Characteristic findings of Scalp hair in Korean men using phototrichogram.**  
*CH Bang, SJ Lee\*, JW Yoon\*, JH Chun\*, JS Jeon\*, SS Yoon\*, SA Yoo, JH Han, JY Lee, YM Park, JH Lee*  
 Department of Dermatology, Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Seoul, Korea Department of Business Management, Kwangwoon University, Seoul, Korea.\*
- P048** **Treatment of grade IV androgenetic alopecia using microinfusion of medication into the skin (MMP®).**  
*D. Roth, F. Schalch*  
 Clínica Citera & Clínica FOS. Brazil.



- P049 Efficacy and safety of adipocyte-derived stem cell conditioned media in the treatment of androgenic alopecia.**  
*SD Yeom, SB Lee, JH Heo, HS Yoon, SH Lee, GS Choi*  
Department of Dermatology, Inha University, College of Medicine. Korea.
- P050 FOL-005 - Modulation of hair growth in clinical studies.**  
*J. Alenfall, M. Ekblad, J. Kottner\*, A. Vogt\*, U. Blume-Peytavi\**  
Lund, Sweden; Berlin, Germany.\*
- P052 Comparative analysis of minoxidil and alpha-estradiol in the treatment of female pattern hair loss: a double-blind clinical trial.**  
*A. Dell'Horto, M. Soares\*, J. Regis, M. Diniz, I. Gomide, A. Soares*  
Santa Casa de Misericórdia de Belo Horizonte\* Faculdade de medicina da Universidade Federal de Minas Gerais. Brazil.
- P053 Eficacia of oral 5mg finasteride and 5% minoxidil solution versus 5% minoxidil solution alone in treatment of female pattern hair loss (FPHL) in postmenopausal women: a randomized controlled study.**  
*R. Panchaprateep, J. Khamthara*  
Division of Dermatology, Department of Medicine, Faculty of Medicine, Chulalongkorn University, King Chulalongkorn Memorial Hospital, Bangkok, Thailand.
- P054 Low-dose oral minoxidil for the treatment of female pattern hair loss.**  
*AR Rodrigues-Barata, D. Saceda-Corralo, O. Moreno-Arrones, C. Morales\*, S. Vaño-Galván*  
Trichology unit, Dermatology department, Ramón y Cajal University Hospital. Madrid, Spain. Pedro Jaén Dermatologic Group, Madrid, Spain\*
- P055 Optimizing productivity of viable terminal scalp hair follicles is explanatory for the therapeutic benefit of finasteride in men with mphi.**  
*D. Van Neste*  
Terface Laboratories and Brussels' Hair Clinic, Brussels, Belgium.
- P056 Efficacy and safety of adipocyte-derived stem cell conditioned media in the treatment of androgenic alopecia.**  
*SD Yeom, YJ Jung, SB Lee, JH Heo, HS Yoon, SH Lee, JW Byun, JH Shin, GS Choi*  
Department of Dermatology, School of Medicine, Inha University, Incheon, Korea.
- P057 Transcriptome analysis of hair follicle dermal fibroblasts from the frontal and occipital scalp reveals inherent differential gene expression.**  
*S. Limbu\*, N. Farjo\*, B. Farjo\*, P. Kemp\*, C. Higgins\**  
Department of Bioengineering\*, Imperial College London\*\* HairClone. UK.
- P058 L-(+)-tartaric acid supports human hair follicle cell growth factor production and proliferation in vitro.**  
*S. Kashiwagi\*, Y. Tsunai\*, M. Yoshino\*, A. Kuwahara\*, Y. Satou\*, T. Ishii\*, M. Ohyama\*, Y. Honma\*, M. Ohyama.*  
ROHTO Pharmaceutical Co.\* Ltd., Department of Dermatology, Kyorin University School of Medicine\*\*. Japan.
- P059 Effectiveness and safety of dutasteride versus finasteride in adult men with androgenic alopecia in South Korea: results from a real-world pilot chart review study.**  
*G. Ong<sup>(1)</sup>, S. Shantakumar<sup>(1)</sup>, Z. Lulic<sup>(2)</sup>, YF Ho<sup>(1)</sup>, W. Hong<sup>(3)</sup>, M. Sheng Duh<sup>(4)</sup>, WY Cheng<sup>(4)</sup>, PJ Bobbili<sup>(4)</sup>, P. Thompson-Leduc<sup>(4)</sup>, WYSim<sup>(5)</sup>, H. Kang<sup>(6)</sup>, C. Hun Huh<sup>(7)</sup>, Y. Won Lee<sup>(8)</sup>, G. Seong Choi<sup>(9)</sup>*  
GSK, Singapore<sup>(1)</sup>; GSK, UK<sup>(2)</sup>; GSK, Korea<sup>(3)</sup>; Analysis Group, Inc., USA<sup>(4)</sup>; KyungHee University, Korea<sup>(5)</sup>; The Catholic University of Korea, Korea<sup>(6)</sup>; Seoul National University, Korea<sup>(7)</sup>; KonKuk University, Korea<sup>(8)</sup>; Inha University, Korea.<sup>(9)</sup>
- P060 Cystine may play role to hair growth and hair growth effect with minoxidil.**  
*Y. Osada, T. Hama, K. Michibata*  
Medical Research and Development Division, ANGFA Co., Ltd, Japan.
- P061 Japanese gentian enhances the effects of minoxidil through the increase in the expression and activities of minoxidil-sulfating sulfotransferases in normal human epidermal keratinocytes.**  
*S. Ozawa\*, T. Sasa\*, T. Koyama\*\*, H. Inoue\*\*\*, Y. Osada\*\*\*\*, T. Hama\*\*\*\*, K. Kobayashi\*\*, J. Terashima\*, W. Habano\**  
\*Iwate Medical University School of Pharmacy, Men's Health Clinic Tokyo\*\*, St. Marianna University School of Medicine\*\*\*, ANGFA Co. Ltd., Tokyo Japan\*\*\*\*.
- P062 Platelet-rich Plasma intradermal injections increase the area of expression of CD34 and  $\beta$ -catenin in males with Androgenetic Alopecia.**  
*EE Pakhomova<sup>(1,2)</sup>, IO Smirnova<sup>(1)</sup>*  
St. Petersburg State University, Saint Petersburg, the Russian Federation<sup>(1)</sup>, St. Petersburg Center for Hair Treatment, Saint Petersburg, the Russian Federation.<sup>(2)</sup>
- P063 A randomized, placebo-controlled, double-blinded pilot study to evaluate sublingual minoxidil in androgenic alopecia: An interim analysis.**  
*L. Bokhari, R Sinclair*  
Sinclair Dermatology, Melbourne Australia.
- P064 YUFA Promotes Hair Growth and Prolongs Anagen Hair Cycle: In vivo and In vitro Evaluation.**  
*X. Guoshan, L. Chuying, J. Meitong, Y. Jiachen, P. Long-Quan*  
Department of Dermatology, Affiliated Hospital of Yanbian University, Yanji, China.
- P065 Effects of overexpression of Irfc15 on human dermal papilla cells.**  
*MK Kim, MK Kim, JC Kim, YK Sung*  
Department of Immunology, School of Medicine, Kyungpook National University, Daegu, Korea.

## TOPIC: AUXILIARY CELLS

- P066 Roles of mature adipocytes in human hair growth.**  
*J. Nakanishi, H. Kuratomi\**  
Shiseido Global Innovation Center, Yokohama, Japan. Medical Plaza Ichikawa Station, Ichikawa, Japan\*.
- P067 Do human dermal adipocytes shift from lipogenesis to lipophagy and lipolysis during anagen-catagen transition?**  
*C. Nicu<sup>(1,2)</sup>, JA Hardman<sup>(1,2)</sup>, J. Pople<sup>(3)</sup>, R. Paus<sup>(1,2)</sup>*  
Centre for Dermatology Research, University of Manchester<sup>(1)</sup>, UK Manchester Biomedical Research Centre and Manchester Academic Health Science Centre UK<sup>(2)</sup>, Unilever R&D Colworth Science Park, UK.<sup>(3)</sup>

## TOPIC: Cicatricial alopecia

- P068 Treating primary and secondary scarring alopecias with adipose tissue prior to hair transplantation - a 5 year experience**  
*G. Kuka Epstein*  
Hair Center Serbia/Foundation for Hair Restoration. USA
- P069 Erosive pustular dermatosis of the scalp, a case series.**  
*Y. Morales, B. Reyes, R. Tovar*  
Servicio de Dermatología, Unidad de Especialidades Médicas, SEDENA. Mexico.
- P070 Gram-negative infections in patients with folliculitis decalvans: a subset of patients requiring alternative treatment**  
*A. Samrao, P. Mirmirani*  
Kaiser-Permanente Northern California. USA
- P071 Folliculitis decalvans of the face - a rare clinical manifestation**  
*A. Baltabaev\*, M. Akdeniz\*\*, U. Blume-Peytavi\*, J. Röwert-Hubert\*, I. Jahnke\*\**  
Kyrgyz-Russian Slavic University, dermatovenereology department, Kyrgyzstan\*, Department of Dermatology and Allergy, Charité Medical University of Berlin, Germany\*\*

- P072 Central centrifugal cicatricial alopecia following a patchy pattern: a new form of clinical presentation and a challenging diagnosis for the dermatologist.**  
A. Gómez-Zubiaur, D. Saceda-Corralo\*\* MD Vélez-Velázquez\*, A. Rodríguez-Villa Lario, S. Medina-Montalvo, L. Trasobares-Marugán.  
Dermatology Service, Anathomy Service, Hospital Universitario Príncipe de Asturias, Alcalá de Henares, Spain.\* Dermatology Service Hospital Universitario Ramon y Cajal, Madrid, Spain.\*\*
- P073 Surgical correction possibilities of scalp patches in patients with widespread form of lichen planopilaris.**  
E. Denisova, A. Volkov  
Volosy. Saint-Petersburg. Russia.
- P074 Trichoscopic and histopathological characteristics of central centrifugal cicatricial alopecia in a phototype III patient.**  
D. De Perosanz-Lobo, D. Fernández-Nieto, D. Saceda-Corralo, S. Vañó-Galván  
Hospital Ramón y Cajal. Madrid, Spain.
- P075 Clinical case of scalp metastasis from breast cancer.**  
A. Mareeva<sup>(1)</sup>, V. Smolyannikova<sup>(2)</sup>  
State Research Centre of Dermatovenereology and Cosmetology, Moscow, Russia<sup>(1)</sup>; I.M. Sechenov First Moscow State Medical University. Russia.<sup>(2)</sup>
- P076 Erosive pustular dermatosis of the scalp - an international study.**  
M. Starace, RM Trueb, V. Piccolo, M. Iorizzo, F. Camacho, G. Yulia, L. Rudnicka, I. Umberto, L. Anna, S. Vañó-Galván, A. Goren, A. Alessandrini, N. Brandi, B. M. Piraccini  
Department of Experimental, Diagnostic and Specialty Medicine-Division of Dermatology, University of Bologna, Bologna, Italy.
- P077 Dermoscopic features of folliculitis decalvans: a study of 42 cases and their clinico-pathological correlations.**  
M. Uchiyama, K. Harada, R. Irisawa, R. Tsuboi  
Department of Dermatology, Tokyo Medical University, Tokyo, Japan.
- P078 Cicatricial alopecia as an outcome of chronic mucocutaneous candidiasis**  
MK Baltabaev, AA Koybagarova, AM Baltabaev  
Kyrgyz-Russian Slavic University, Dermatovenereology department. Kyrgyzstan
- P079 Folliculitis decalvans in association with Crohn's disease: case report.**  
N. Vidolova Brabcova, V. Holecova, F. Rob, K. Konasova, P. Bohac, V. Krizkova, J. Hercogova  
Department of Dermatovenereology, 2<sup>nd</sup> Medical Faculty, Charles University and Bulovka Hospital, Prague, Czech Republic.
- P080 A rare case of a man with fibrosing alopecia in a pattern distribution.**  
MF Gavazzoni, L. Pantaleão, R.Trüeb\*, JR Moraes, H. Dutra, E. Rohen, I. Martins, J. Fróes, C. Figueroa  
Federal Fluminense University, Antonio Pedro University Hospital. Niteroi, Rio de Janeiro, Brazil. Center for Dermatology and Hair Diseases Professor Trüeb, Zurich/Wallisellen, Switzerland\*
- P081 Graham-little-piccardi-lassueur syndrome: a case report with hair casts and extensive involvement of the body.**  
XQ Li, X. Chen, JZ Zhang, C. Zhou  
Department of Dermatology, Peking University People's Hospital, Beijing, China.
- P082 Piccardi-Lassueur-Graham-Little Syndrome: Case Report.**  
V. Chinchilla, V. Urrutia, C. Salgado, R. Reyes  
Instituto de Dermatología y Cirugía de Piel (INDERMA). Ciudad de Guatemala. Guatemala.
- P083 Dissecting cellulitis of the beard: a primary neutrophilic cicatricial alopecia in an atypical localización.**  
W. López, LE Muñoz, CL Montoya  
Fundación Valle del Lili, Universidad Icesi Cali, Colombia. Hospital Universidad del Norte, Barranquilla, Colombia.
- P084 The great mimicker: a case of scalp sarcoidosis mimicking discoid lupus erythematosus.**  
E. Peterson, L. Krueger, D. Gutierrez, AG. Franks, J. Shapiro, K. Lo Sicco  
The Ronald O. Perleman Department of Dermatology, New York University School of Medicine, New York, USA
- P085 Folliculitis decalvans developed on a burn scar in the scalp: a case report.**  
W. López, C.L Montoya  
Dermatology Service, Fundación Valle del Lili, Universidad Icesi, Cali, Colombia. Hospital Universidad del Norte, Barranquilla, Colombia.
- P086 Trichodynia as an early sign of cicatricial alopecia: a case study.**  
M. Cisterna\* \*\*, A. Cordero\*\*\*, ML Bovcon\* \*\*  
AATRI (Asociación Argentina de Tricología)\*, Universidad Maimónides Buenos Aires\*\*, Hospital Británico de Buenos Aires\*\*\* Argentina.
- P087 Folliculitis decalvans treatment with amphotericin b and triamcinolone microinfusion into the scalp.**  
D. Roth, F. Schalch  
Clínica Citera & Clínica FOS. Brazil.
- P088 Frontiers in lpp pathobiology: does defective mitochondrial function promote hair follicle inflammation by up-regulating damage associated molecular patterns (damps) in the bulge?**  
JA Hardman, S. Panicker\*, MJ Harries, R. Paus  
Centre for Dermatology Research, University of Manchester and Salford Royal NHS foundation, & NIHR Biomedical Research Centre, Manchester, UK\* Department of Zoology, University of Kerala, India
- P089 Keratosis follicularis spinulosa decalvans, an uncommon cause of cicatricial alopecia.**  
J. Larrondo\*, M. Gosch\*\*, A. McMichael\*\*\*  
Dermatology department, Clínica Alemana, Santiago, Chile.\* Dermatology department, Hospital del Salvador, Santiago, Chile.\*\* Dermatology department, Wake Forest Baptist Health, NC, USA.\*\*
- P090 Increased prevalence of cardiac and metabolic disease among patients with lichen planopilaris.**  
R. Conic, N. Mesinkovska, G. Damiani, M. Piliang, W. Bergfeld  
Cleveland Clinic, Cleveland, OH; University of California, Irvine, CA.\* USA

## TOPIC: DERMAL PAPILLA

- P091 Autophagy inhibitor 3-methyladenin regulates wnt/beta-catenin signaling in human dermal papilla cells.**  
G. Jeong<sup>(1)</sup>, S. Shin<sup>(1)</sup>, BC Park<sup>(2)</sup>, Y. Na<sup>(1)</sup>, SN Kim<sup>(1)</sup>  
Basic Research & Innovation Division, AMOREPACIFIC Corp. R&D Unit, Yongin, Republic of Korea<sup>(1)</sup> Department of Dermatology, Dankook University Hospital, Cheonan, Republic of Korea.<sup>(2)</sup>
- P092 Effects of particulate matter on human dermal papilla cells.**  
Hyuk Chul Kwon, Tae Yang Kim, Chun Mong Lee, Kwang Sik Lee, Kun Kook Lee  
Songpa R&D Center, Coreana Cosmetic Co.,Ltd. Korea.
- P093 5-Fluorouracil induces delayed anagen initiation by the decrease of nuclear  $\beta$ -catenin and fgf-7/-10 in dermal papilla cells.**  
JI Kang, YK Choi, J. Ko, ES Yoo, HK Kang  
Department of Medicine, School of Medicine, Jeju National University. Korea.



- P094 Hair growth effect of fermented fish oil via stimulation of the wnt/ $\beta$ -catenin pathway.**  
J. Ko, JI Kang, YJ Hyun, HS Yoon, SM Kim, YS Ahn\*, JW Hyun, ES Yoo, HK Kang  
Department of Medicine, School of Medicine, Jeju National University, Jeju, South Korea. Choung Ryong Fisheries Co. LTD, Iljudong-ro, Jeju, South Korea.\*
- P095 Importance of the macro-environment and extracellular vesicles communication for hair growth.**  
A. Tinguely<sup>(1)</sup>, A. Le Riche<sup>(1,2,3)</sup>, D. Boudier<sup>(1)</sup>, L. Marchand<sup>(1)</sup>, S. Gofflo<sup>(1)</sup>, D. Aberdam<sup>(2,3)</sup>, B. Closs<sup>(1)</sup>  
SILAB, R&D Department, SILAB, Brive, France<sup>(1)</sup> INSERM UMR 976, Paris, France<sup>(2)</sup> Paris-Diderot University, Paris, France.<sup>(3)</sup>
- P096 Electrical stimulation on hair follicle dermal papilla cells in vitro.**  
L. Yan, T. Kageyama, B. Zhang, J. Fukuda  
College of Engineering Science, Yokohama National University, Kanagawa Institute of Industrial Science and Technology (KISTEC). Japan.
- P097 Exosomes derived from dermal papilla cells promote hair growth in cultured human hair follicles and regulate hair cycling in mice.**  
MH Kwack, CH Seo, P. Gangadaran, BC Ahn, MK Kim, JC Kim, YK Sung.  
Department of Immunology, School of Medicine, Kyungpook National University. Korea
- P098 Characterisation of immortalised human balding and non-balding dermal papilla cells.**  
J. Lee\*, A. Bahta\*, M. Sawicka\*, R. Bhogal\*, M. Philpott\*  
Cell Biology and Cutaneous Research, Blizzard Institute, Queen Mary University London. UK\* Unilever R&D, Colworth Science Park, Bedfordshire, UK.\*\*
- P099 Differential molecular signature of dermal papilla cells (dpcs) from balding and non balding scalp in 2d, 3d culture and co-culture with adipose-derived stem cells (ascs).**  
R. Borhan<sup>(1,2)</sup>, J. Lee<sup>(1)</sup>, A. Bensussan<sup>(2)</sup>, M. Philpott<sup>(1)</sup>  
Centre for Cell Biology and Cutaneous Research, Blizzard Institute, Barts and The London School of medicine and Dentistry, Queen Mary College London, London, UK<sup>(1)</sup> Centre de Recherche sur la Peau, Inserm U976, Pavillon Bazin, Hopital Saint Louis, Paris.<sup>(2)</sup>
- P100 Effects of cnidium officinale, polygonum multiflorum and hottuyia cordata extracts on 3d cultured human dermal papilla cells**  
JY Shin, YH Choi, J. Kim, SY Lee, M. Hyun Jin, S. Lee  
R&D Center, LG Household & HealthCare, 70, Magokjungang 10-ro, Gangseo-gu, Seoul, Korea
- P105 Frontal fibrosing alopecia: is there a link in relatives?**  
SS Ocampo-Garza, TL Orizaga-y Quiroga, ME Herz-Ruelas, S. Chávez-Álvarez, V. Olvera-Rodriguez, DM de la Fuente-Rodriguez, J. Ocampo-Candiani  
Dermatology Service, University Hospital "Dr. José E. González", UANL, Monterrey, México
- P106 Prostaglandin analogue for eyebrow alopecia in a patient with frontal fibrosing alopecia.**  
A. Murad<sup>(1,2)</sup>, W. Bergfeld<sup>(2)</sup>  
Mater Misericordiae University Hospital, Dublin, Ireland<sup>(1)</sup> Cleveland Clinic Foundation, Ohio, USA.<sup>(2)</sup>
- P107 Risk factors and clinical profile of Brazilian patients with frontal fibrosing alopecia.**  
P. Ramos<sup>(1)</sup>, B. Duque-Estrada<sup>(2)</sup>, R. Pirmez<sup>(2)</sup>, L. Abraham<sup>(3)</sup>, F. Mulinari-Brenner<sup>(4)</sup>, D. Cadore de Farias<sup>(5)</sup>, G. Martins Pinto<sup>(6)</sup>, A. Anza<sup>(7)</sup>, L. Santos<sup>(8)</sup>, A. Donati<sup>(9)</sup>, D. Melo<sup>(10)</sup>, H. Miot<sup>(1)</sup>  
UNESP<sup>(1)</sup>; Santa Casa Rio de Janeiro<sup>(2)</sup>; UnB<sup>(3)</sup>; UFPR<sup>(4)</sup>; UFSC<sup>(5)</sup>; Santa Casa Porto Alegre<sup>(6)</sup>; USP<sup>(7)</sup>; Private practice<sup>(8)</sup>; Hosp. Servidor Estadual<sup>(9)</sup>; Hosp. Naval Marcilio Dias. Brazil.<sup>(10)</sup>
- P108 Defining Normal Forehead Length across Sex, Age and Race: A Pilot Study.**  
C. Pham, F. Choi, M. Juhasz, D. Pouldar, C. Ekelem, N. Mesinkovska  
Center: University of California, Irvine. USA.
- P109 Low-level light therapy for frontal fibrosing alopecia. a randomized clinical trial.**  
P. Fonda-Pascual, D. Saceda-Corralo, OM Moreno-Arrones, C. Pindado-Ortega, P. Jaen-Olasolo, S. Vañó-Galván  
Ramon y Cajal University Hospital. Dermatology Department, Trichology Unit. Madrid. Spain.
- P110 Therapeutic success in Fibrosing Frontal Alopecia: Case Report.**  
M. Recoder, F. Mariotto, A. Mariotto  
Instituto Mariotto Recoder, Belo Horizonte - MG, Brasil.
- P111 Demographic characteristics of frontal fibrosing alopecia in patients under 50.**  
S. Kam, LJ Goldberg  
Department of Dermatology, Boston University School of Medicine, Boston, MA, USA.
- P112 Frontal fibrosing alopecia in a young man: could trauma be a trigger?**  
N. Salmon, A. Bryden  
Department of Dermatology, Ninewells Hospital, Dundee, Scotland.
- P113 Evidence for lymphocytic inflammation in unaffected scalp of patients with folliculitis decalvans: a histological study of affected and unaffected scalp biopsies from 25 patients.**  
I. Doche\*, M. Hordinsky\*\*, MCM Rivitti-Machado\*, MN Sotto\*, NSValente\*  
University of Sao Paulo. Brazil\*, University of Minnesota USA\*\*.

## TOPIC: Frontal Fibrosing Alopecia

- P101 Frontal fibrosing alopecia in 18 men.**  
S. Papanikou, V. Chasapi  
«Andreas Syggros» Hospital, Athens, Greece.
- P102 Frontal fibrosing alopecia: effectiveness and safety of oral dutasteride in routine clinical practice.**  
C. Pindado-Ortega, D. Saceda-Corralo, O.M. Moreno-Arrones, A.R. Rodriguez-Barata, P. Jaén, S. Vañó-Galván.  
University Hospital Ramón y Cajal, Madrid, Spain.
- P103 Platelet rich plasma (prp) for treatment resistant frontal fibrosing alopecia: a case report.**  
D. Özcan, A. Tuncer Vural, \*Ö. Özen  
Departments of Dermatology and \*Pathology, Baskent University Faculty of Medicine, Ankara, Turkey.
- P104 A Significant Association between Frontal Fibrosing Alopecia and Facial Procedures.**  
C. Pham, K. Hashemi, M. Juhasz, C. Ekelem, J. Lin, F. Choi, N. Mesinkovska  
University of California, Irvine School of Medicine. USA.
- P114 Identification of titanium dioxide on the hair shaft of patients with frontal fibrosing alopecia.**  
J. Ferrando, A. Combalia, E. Prats\*, J. García-Veigas.  
Department of Dermatology, Hospital Clínic & Technologic and Scientific Center\*. University of Barcelona, Spain.
- P115 Lichen planus pigmentosus and frontal fibrosing alopecia in a patient successfully treated with isotretinoin.**  
M. Herrero-Moyano, M. Andreu-Barasoain, J. Alcántara-Gonzalez, M. Ruano del Salado, TM Capusan, ME Sánchez-Largo, YC Pérez-González, L. Calzado-Villarreal.  
Department of Dermatology and Pathology\*, Hospital Universitario de Torrejón, Torrejón de Ardoz, Madrid. Spain.
- P116 Ultrasound evaluation of Frontal Fibrosing Alopecia.**  
A. Combalia, P. Giavedoni, L. Rojano-Fritz, J. Ferrando.  
Department of Dermatology. University of Barcelona. Spain.



- P117 **Initial treatment approaches for extensive lichen planopilaris: should we stop putting all our eggs in one basket?**  
*R. Perry-Thomas, A. Takwale*  
Gloucestershire Hospitals NHS Foundation Trust, Gloucester, United Kingdom.
- P118 **Occipital fibrosing alopecia.**  
*A. Combalia, X. Bosch-Amate, J. Ferrando.*  
Department of Dermatology, Hospital Clínic, University of Barcelona, Spain.
- P119 **Low sebum excretion - a risk factor for frontal fibrosing alopecia?**  
*SL Gaikwad, K. Dobson, A. McDonagh, AG Messenger*  
Department of Dermatology, Royal Hallamshire Hospital, Sheffield, UK.
- P120 **Frontal fibrosing alopecia: case series from two Colombian centers.**  
*G. Mancilla\*, C. Palacio\*\**  
Private practice. Medellín, Colombia\*. GRID.Private practice. Bogotá, Colombia.\*\*

### TOPIC: Genotrichosis

- P121 **Genotrichosis, a classification proposal.**  
*JC Salas-Alanis, I. Meester*  
Instituto Dermatológico de Jalisco. Mexico.
- P122 **Autoimmune polyendocrinopathy candidiasis ectodermal dystrophy: apeced syndrome.**  
*X. Bosch-Amate, A. Combalia, J. Ferrando*  
Department of Dermatology. Hospital Clínic, University of Barcelona. Spain.

### Topic: Hair cosmetics news and views

- P123 **HR007 induces the proliferation of human hair follicles ex vivo.**  
*B. Hashtroudy\*, M. Calvo-Sánchez\*\*, S. Fernández-Martos\*\*, B. Castro\*\*\*, K. García Alonso\*, S. Armenteros González\*, J. Espada Regalado\*\**  
Medical Department Cantabria Labs, Madrid SPAIN\* Experimental dermatology group & Skin Biology. Dermatology Department Research Institute Hospital Ramón y Cajal, Madrid SPAIN\*\* Scientific Department Histocell Spain.\*\*\*
- P124 **The prevalence of biotin use in patients presenting for hair loss.**  
*D. Marks, D. Hagigeorges, A. Manatis-Lornell, J. Okhovat, M. Senna*  
Department of Dermatology, Massachusetts General Hospital, Boston, MA, USA.
- P125 **Formulation and evaluation of silicone-free scalp care shampoo.**  
*D. Eun, H. Lee, W. Bae, J. Choi, W. Kim*  
Amorepacific Corporation R&D Center. Korea.
- P126 **Importance of safety tests for rinse off products.**  
*A. Tosti, L. de Campos\**  
Fredric Brandt Endowed Professor of DermatologyDr. Phillip Frost Department of Dermatology and Cutaneous SurgeryMiller School of Medicine, University of Miami. USA Monat Global.\*
- P128 **Development of in vitro and in vivo models to evaluate the protection of hair and scalp from air pollutants.**  
*A. Perrin, C. Gondran, C. Coquet, E. Oger, R. Zhao\*, X. Qu\*, K. Cucumel*  
Ashland Global Skin Research Center, Sophia-Antipolis, France Ashland, Shanghai, China.\*

- P130 **Nanoparticles for hair shaft cosmetic treatment.**  
*T. Katzer*  
Pharmacy and Biology Department, Santa Cruz do Sul University, Brazil.
- P131 **Cosmetic trichology and oftalmology: psycho-neuro-endocrine-immunology pathway as an allergy physiopathology adjuvant.**  
*ML Bovcon<sup>(1,2)</sup>, M. Díaz<sup>(1)</sup>, M. Cisterna<sup>(1,2)</sup>*  
AATRI - Asociación Argentina de Tricología<sup>(1)</sup> Universidad Maimónides - Facultad de Farmacia y Bioquímica.<sup>(2)</sup> Buenos Aires. Argentina.
- P132 **In vitro evaluation of rosemary (*rosmarinus officinalis*), tea tree (*melaleuca alternifolia*) and lavender (*lavandula angustifolia*) essentials oils in proliferation of human fibroblasts.**  
*ACHR Machado, LG Sakamoto, DG Spindola, CR Oliveira*  
Molecular Biology and Cell Culture Laboratory of the Health Sciences School, Anhembi Morumbi University, São Paulo, Brazil.
- P133 **Phase II study to evaluate efficacy and safety of spectralash® topical solution for growth stimulation of eyelashes.**  
*MA Martínez-Velasco, F. Tamez-Gutierrez, H. Lacky*  
Hospital Medica Sur, Mexico City. Mexico.

### TOPIC: Hair follicle aging

- P134 **Lamin B1 as novel biomarker for senescence in human hair follicles?**  
*M. Alam\*, A. Wang, O. Dreesen, F. Jimenez\*, C. Clavel*  
Mediteknia Skin & Hair Lab, Las Palmas, Spain\*. A STAR Skin Research Institute of Singapore, Singapore.
- P135 **Prevention of H2O2-induced cellular senescence in human hair follicle dermal papilla cells.**  
*D Pawlus, P. Kiehne, T. Thompson, C. Hall, CK Angerhofer*  
Aveda, Hair Innovation and Technology, Blaine, MN, USA.
- P136 **The effects of urban particulate matters on human hair follicular cells.**  
*MS Jun, MH Kwack, MK Kim, JC Kim, YK Sung*  
Department of Immunology, School of Medicine, Kyungpook National University. Korea.

### TOPIC: Hair pigmentation/Hair graying

- P137 **Xanthotrichia (hair yellowing) due to topical treatment with minoxidil: case report.**  
*A. Lyakhovitsky, Y. Ben Mordechai, S. Baum, K. Varshavsky, A. Barzilai.*  
Chaim Sheba Medical Center, Tel-Hashomer, Israel.
- P138 **Localized repigmentation of hair.**  
*MP Garcia Muret, A. Mozos Rocafort, L. Puig Sanz*  
Hospital de la Santa Creu i Sant Pau. Universitat Autònoma de Barcelona. Spain.

### TOPIC: Hair transplantation

- P140 **Developments in hair transplantation.**  
*E. Villodres\*, C. Fischer\*\*, J. Mir Bonafé\*\*\**  
Villodres Trasplante Capilar\*, Barcelona, Spain; Hospital Salvador\*\*, Santiago, Chile; Hospital Universitario Son Espases\*\*\*, Palma de Mallorca, Spain.
- P141 **Frontal hairline patterns in young Mexicans.**  
*A. Morales, B. Reyes, D. Cisneros, R. Tovar*  
Department of Dermatology, Medical Specialties UnitArmy University and Air ForceSecretary of National Defense. Mexico.

- P142 Transplantation of anagen hair follicles promotes stretched scar remodeling.**  
*M. Plotczyk\*, G. Williams\*\*, F. Jiménez\*\*\*, CA Higgins\**  
 Department of Bioengineering\*, Imperial College London, London UK Farjo Hair Institute\*\*, London UK Meditekna Dermatology Clinic\*\*\*, Las Palmas De Gran Canaria. Spain.
- P143 Impact of preservation solutions on hair micrografts? Trichogenicity ascertained by dermal papilla gene expression.**  
*AR Castro<sup>(1,2)</sup>, C. Portinha<sup>(2)</sup>, E. Logarinho<sup>(1)</sup>*  
 i3S, Instituto de Investigação e Inovação em Saúde, Universidade do Porto, Porto, Portugal<sup>(1)</sup> Saúde Viável – Clínica de Microtransplante Capilar, Porto, Portugal.<sup>(2)</sup>
- P144 Efficacy of autologous hair transplantation in women with endocrine-therapy induced alopecia.**  
*P. Bouhanna, M. Larif, A. Guichard*  
 Hair surgery service, Department Sabouraud, Hospital Saint-Louis, Paris, France Dermatology Service, CHU Clermont-Ferrand, University of Clermont Auvergne, France. Legacy Healthcare, Epalinges.
- P145 A comparative study between totally preserved graft and epidermis trimmed grafts in post transplant progression.**  
*H. Kang, SJ Park*  
 Miracle hair restoration Clinic. Korea.
- P146 "A trichoscopic study of the characteristics of transitional zone" - a step towards creating natural hairline.**  
*S. Agrawal, R. Dhurat*  
 LTMMC Mumbai. India.
- P147 Perifollicular repigmentation in lupus hair transplant: an initial sign for hair regrowth?**  
*J. Larrondo\*, M. Gosch\*\*, P. Guaya\*\*, A. McMichael\*\*\*.*  
 Dermatology department, Clínica Alemana, Santiago, Chile\*. Dermatology department, Hospital del Salvador, Santiago, Chile \*\*. Dermatology department, Wake Forest Baptist Health, NC, USA. \*\*\*
- P148 Useful protocol for skin preparation prior to the hair implantation in scarring alopecia.**  
*A. Menem, M. Nagai\*, M. Velez \*\*, M. Menem \*\*\**  
 Centro Médico Teknon, Barcelona Spain; Renaissance Clinic, Fukuoka, Japan\*; Department of Dermatology Hospital del Mar\*\*; HC Hairclinic\*\*\*, Barcelona, Spain.

### TOPIC: Histopathology

- P149 Rare in hair: a gamut of interesting cases.**  
*M. Jage, R. Dhurat, S. Aggarwal, J. Chitalia*  
 Department of Dermatology, Lokmanya Tilak Municipal Medical College and General Hospital, Sion. India.
- P150 Sebaceoma simulating melanocytic malignant cutaneous neoplasia.**  
*B. Poggi, J. Marques da Costa, D. Melo, M. Sousa, T. Barreto*  
 Hospital Naval Marcilio Dias. Brazil.
- P151 Horizontally sectioned scalp biopsies in the diagnosis of chronic diffuse hair loss.**  
*M. Jage, R. Dhurat*  
 Dept of Dermatology, Lokmanya Tilak Municipal Medical College & General Hospital, Sion, Mumbai. India.
- P152 Lichen simplex chronicus on the scalp: broom fibers on dermoscopy; gear wheel sign and hamburger sign on histopathology.**  
*S. Agrawal, R. Dhurat*  
 LTMMC Mumbai. India.
- P153 Alopecia in patients with dystrophic epidermolysis bullosa.**  
*JC Salas-Alanis\*\*, R. Cepeda-Valdez\*, M. Saeb-Lima\*\*\*.*  
 Dystrophic Epidermolysis Bullosa Research Association\*; Instituto Dermatológico de Jalisco\*\*; Departamento de Patología del Instituto Nacional de Nutrición Salvador Zubirán\*\*\*, Mexico.

- P154 Hedgehog-like moustache trichomegaly in a patient receiving Vismodegib.**  
*J. Riera-Monroig, A. Combalia, A. Rodríguez, L. Alós\*, C. Mangas, C. Carrera, J. Ferrando*  
 Departments of Dermatology & Pathology\*, Hospital Clinic, University of Barcelona, Spain.

### TOPIC: Hormones, hair growth and FPHL

- P155 The Effect of MicroRNA92a on the function of hair follicle outer root sheath cells in vitro.**  
*YH Chen, ZF Lu*  
 The Second Affiliated Hospital, Zhejiang University School of Medicine. China.
- P156 Kartogenin may regulate hair growth and hair cycling transition via transforming growth factor-beta2/Smad signaling.**  
*LJ Zhou, ZF Lu*  
 The Second Affiliated Hospital, Zhejiang University School of Medicine. China.
- P157 Quantitative evaluation of hair growth in the treatment of hormone replacement therapy in Japanese postmenopausal women.**  
*Y. Endo, S. Hiroshima, A. Tsuge, Y. Obayashi, T. Ono, T. Ito, T. Ikenishi, J. Saito\*, R. Ueki\**  
 Lion Corporation, Juntendo Tokyo Koto Geriatric Medical Center\*, Japan.
- P158 The effect of sildenafil on hair growth.**  
*DA Yu, HI Choi, BM Kang, J. Jang, ST Hwang\*, KH Kim, O. Kwon.*  
 Laboratory of Cutaneous Aging and Hair Research, Clinical Research Institute, Seoul National University Hospital, Dr. Hwang's Hair-Hair Clinic\*, Seoul, Republic of Korea.
- P159 Dihydrotestosterone-induced keratinocytes death is mediated by the activation of tgf-β/smad pathway.**  
*Ji Kang, YK Choi, J. Ko, ES Yoo, HK Kang*  
 Department of Medicine, School of Medicine, Jeju National University. Korea.

### TOPIC: Neogenesis and tissue engineering

- P160 Large scale fabrication of evenly spaced, size controlled spheroids array with human dermal papilla cells and outer root sheath cells.**  
*JH Kim<sup>(1)</sup>, H. Kim<sup>(1)</sup>, M. Choi<sup>(1)</sup>, B. Jin<sup>(1)</sup>, M. Kim<sup>(2)</sup>, M. Kwack<sup>(2)</sup>, SS Bak<sup>(2)</sup>, Y. Sung<sup>(2)</sup>*  
 Department of Molecular Science and Technology, Ajou University, Suwon, Korea, <sup>(1)</sup> Department of Immunology and Hair Research Center, School of Medicine, Kyungpook National University, Daegu, Korea.<sup>(2)</sup>
- P161 Toward an autologous ipsc-derived microfollicle model.**  
*O. El Baraka, A. Ramme, D. Faust, L. Danoux\*, U. Marx*  
 TissUse GmbH, Berlin, Germany. BASF Beauty Care Solutions France, Lyon, France.\*
- P162 Bioengineered human dermis model to culture and sustain in vitro hair follicles growth.**  
*G. Imparato, C. Casale, F. Urciuolo, P. A. Netti*  
 Center for Advanced Biomaterials for Healthcare- Istituto Italiano di Tecnologia Department of Chemical Materials and Industrial Production (DICMAPI), University of Naples Federico II, Naples, Italy.
- P163 Decorin-mediated regulation of postal hair follicular morphogenesis and cycling.**  
*J. Jing, Z. Lu, L. Zhou, H. Wang*  
 Department of Dermatology, The Second Affiliated Hospital, School of Medicine, Zhejiang University, Hangzhou, China.



## TOPIC: Pediatric Trichology

- P164 Diagnostic significance of trichoscopic examination in children with alopecia areata and trichotillomania**  
*R. Arsov\*, L. Arsova\*\*, I. Yordanova\*, D. Gospodinov\**  
 Department of Dermatology and Venereology, Faculty of Medicine, Medical University Pleven, Bulgaria.\* Liliya Trichology Center, Sofia, Bulgaria.\*\*
- P166 Hypotrichosis, strabism, brachyonychia, autism and tall stature.**  
*J. Campos, M. Rigatti, D. Cadore, A. Nunes, C. Brummer, G. Funchal*  
 Serviço de Dermatologia, Universidade Federal de Santa Catarina, Florianópolis, Brazil.
- P167 Uncombable Hair Syndrome - A Case Report.**  
*S. Giraldi, D. Zanatta*  
 Pediatric Dermatology Service, Clinical Hospital of the Federal University of Parana, Brazil.
- P168 Clinical case of trihotillomania flow in the puberty patient.**  
*A. Khaldieieva*  
 Hair Health Center. Kyiv. Ukraine.
- P169 Hair Shaft Disorders in Children - A review of 22-year cases of a Pediatric Dermatology Service.**  
*S. Giraldi, D. Zanatta*  
 Pediatric Dermatology Service, Clinical Hospital of the Federal University of Parana, Brazil.

## TOPIC: Prostaglandins and hair follicle regulation

- P170 Inhibitors of prostaglandin D2 synthase (PTGDS) activity as a solution for anti-hair loss.**  
*S. Kim<sup>(1)</sup>, Y. Na<sup>(1)</sup>, BC Park<sup>(2)</sup>, SN Kim<sup>(3)</sup>*  
 Basic Research & Innovation Division, AMOREPACIFIC Corp. R&D Unit, Yongin, Republic of Korea<sup>(1)</sup> Department of Dermatology, Dankook University Hospital, Cheonan, Republic of Korea.<sup>(2)</sup>
- P171 The influence of prostaglandin D2 in androgenetic alopecia.**  
*LM Quirino, A. Almeida, V. Bedin, L. Ferreira*  
 BWS Institute - Sao Paolo. Brazil.

## TOPIC: Psychological aspects of hair disease

- P172 Impacts of alopecia areata on psychiatric disorders: a retrospective cohort study.**  
*JC Kim, E. Lee, JW Choi*  
 Ajou University School of Medicine. South Korea.
- P173 Trichotillomania: clinical variability.**  
*Y. Romanova\*, D. Romanov\*, A. Lvov\**  
 Moscow scientific and practical center for dermatovenereology and cosmetology, Moscow, Russia\* I.M. Sechenov First Moscow State Medical University (Sechenov University), Moscow, Russia.\*\*

## TOPIC: Stem cells and stem cell niches

- P174 Functional recovery of spinal cord injury promoted with hair-follicle-associated pluripotent (HAP) stem cells captured on polyvinylidene fluoride membranes (PFM).**  
*K. Obara\*, N. Tohgi\*, K. Shirai\*, S. Mii\*, Y. Hamada\*, N. Arakawa\*, R. Aki\*, RM Hoffman\*\*, Y. Amoh\**  
 Department of Dermatology, Kitasato University School of Medicine, Minami-ku, Sagami-hara, Japan\*, AntiCancer, Inc., San Diego, CA, USA\*\*, Department of Surgery, University of California San Diego, CA, USA\*\*\*

- P175 Exosome for Hair Regeneration: from bench to bedside.**  
*CH Huh, \*B S Park*  
 Seoul National University Bundang Hospital, Cellpark Dermatology Clinic. Korea.\*
- P176 Transplantation of Cell Enriched Adipose Tissue For Follicular Niche Stimulation in Early Androgenetic Alopecia: a Randomized, Blinded, Controlled Trial.**  
*G. Kuka Epstein*  
 Foundation for Hair Restoration. Miami. USA.
- P177 Methods for deriving hair follicle containing sheets in vitro.**  
*J. Walter, H. Kunz*  
 INVITROHAIR SA. UK.
- P178 Follicular Stem Cells In Cosmetic & Regenerative Medicine**  
*C G. Gho, HAM Neumann*  
 Hair Science Institute. Maastricht. Netherlands
- P179 The effect of ap-flavone-01 on activating wnt signaling in hair follicle stem cells and human hair follicle organ.**  
*M. J. Hong, S. Shin, Y. Lee, B. Park M.D, Y. Na and S. N. Kim*  
 Basic Research & Innovation Division, AMOREPACIFIC Corp. R&D Unit, Yongin, Republic of Korea. Department of Dermatology, Dankook University Hospital, Cheonan, Republic of Korea.
- P180 Towards charting the molecular morphology of human hair cycle control: expression changes in key wnt/ $\beta$ -catenin signals during the telogen-anagen transformation of human scalp hair follicles.**  
*N. Hawkshaw, JA Hardman, M. Alam, I. Hernandez\*, F. Jimenes-Acosta\*, R. Paus*  
 Centre for Dermatology Research, University of Manchester and Salford Royal NHS foundation, & NIHR Biomedical Research Centre, Manchester, UK. Mediteknia, Las Palmas, Gran Canaria, Spain.\*
- P181 Blockading paclitaxel cytotoxicity in the human hair follicle with palbociclib: fighting fire with fire to protect against chemotherapy induced alopecia?**  
*TS Purba<sup>(1)</sup>, K. Ngandu<sup>(2)</sup>, L. Brunken<sup>(3)</sup>, E. Mitchell<sup>(1)</sup>, N. Hassan<sup>(1)</sup>, A. O'Brien<sup>(1)</sup>, C. Mellor<sup>(1)</sup>, A. Shahmalak<sup>(4)</sup>, R. Paus<sup>(1,3,5)</sup>*  
 Centre for Dermatology Research, University of Manchester UK<sup>(1)</sup>. University of Huddersfield<sup>(2)</sup>. Monasterium Laboratory<sup>(3)</sup>. Crown Clinic<sup>(4)</sup>. University of Miami Miller School of Medicine. USA<sup>(5)</sup>
- P182 Bmp signaling regulation of melanogenesis, pigment transfer and melanocyte migration in the melanocyte stem cell niche.**  
*J. Lim, J. Ng, D. Quek, Z. Lim, K. Sim, C. Clavel*  
 Hair & Pigmentation Development, Skin Research Institute of Singapore (SRIS), Singapore; Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore.

## TOPIC: Trichoscopy and other diagnostic tools

- P183 New method of imaging analysis in order to measure the efficacy or hair regrowth treatments.**  
*L. Bloch, C. Escudeiro, F. Sarruf*  
 IPclin - Instituto de Pesquisa Clínica - São Paulo - Brazil.
- P184 Pitfalls and artifacts in trichoscopy.**  
*T. Barreto<sup>(1)</sup>, D. Melo<sup>(1,2)</sup>, T. Castro-Alves<sup>(3)</sup>, M. Lima<sup>(4)</sup>*  
 Alopecia Outpatient Clinic - Dermatology Service of Marcilio Dias Naval Hospital - Rio de Janeiro - Brazil<sup>(1)</sup>; Post-Graduate Program in Medical Sciences of Pedro Ernesto University Hospital - University of State of Rio de Janeiro (UERJ) - Rio de Janeiro - Brazil<sup>(2)</sup>; Dermatology Service of Gaffrée e Guinle University Hospital - Federal University of the State of Rio de Janeiro (UNIRIO) - Rio de Janeiro - Brazil<sup>(3)</sup>; Alopecia Outpatient Clinic - Dermatology Service of Santa Casa de Misericórdia do Recife - Recife - Brazil<sup>(4)</sup>.



- P185** **Portable and affordable trichoscopy: comparing the images of the fotofinder leviacam to the fotofinder medicam 800 hd.**  
A. Tosti, J. Griggs, A. Ahmed, N. Sanchez, H. Almohanna  
University of Miami Miller School of Medicine. USA.
- P186** **Imprints from laser-grid as a pitfall from trichoscopy.**  
G. Pinto, R. Bonamigo, M. Miteva  
Hospital Santa Casa de Porto Alegre, Brazil/Universidade Federal do Rio Grande do Sul, Porto Alegre, Brazil. University of Miami School of Medicine, Miami, USA.
- P187** **The frequency of trichoscopic features in androgenetic alopecia.**  
T. Tsimbalenko\*, A. Altaeva\*\*  
Moscow scientific and practical center of dermatovenerology of the Department of health, Russia \*, Polyclinic N°2 Department for Presidential Affairs of the Russian Federation, Moscow, Russia \*\*.
- P188** **The Utility of Non-invasive In Vivo Imaging in Monitoring Hair Loss Disorders: A Pilot Study.**  
C. Ekelem, M. Juhasz, F. Choi, A. Asghari, J. Yu, E. Heidari, Z. Chen, N. Atanaskova Mesinkovska  
University of California Irvine Department of Dermatology, University of California Irvine Beckman Laser Institute. USA.
- P189** **Tufted hair follicles associated with lipedematous alopecia: magnetic resonance imaging and ultrasound assessment.**  
A. Lobato-Berezo, E. López-Trujillo, RM Pujol  
Hospital del Mar-Parc de Salut Mar. Barcelona. Spain.
- P190** **Description of trichoscopic findings in chronic lupus erythematosus on the scalp.**  
H. Gomez, D. Saceda, ME de Las Heras-Alonso, P. Fonda, O. Muñoz, C. Pindado, S. Vaño-Galván.  
Trichology Unit, Dermatology Department, Ramón y Cajal University Hospital, Madrid, Spain.
- P191** **Evaluation of moisture absorption characteristics of damaged hair.**  
H. Park, D. Eun, K. Lee, Y. Jung, E. Kim  
AMOREPACIFIC R&D Center, Yongin, Korea.
- P192** **Efficiency of hair detection in hair to hair matched trichoscopy.**  
R. Grimalt\*, M. Kasprzak\*\*, MF Rocha Serpa\*, J. Sicinska\*\*\*, A.Tosti\*\*\*\*  
Universitat Internacional de Catalunya, Sant Cugat (Barcelona) Spain\*; TrichoLAB, Warsaw, Poland\*\*, CSK MSW, Warsaw, Poland \*\*\*; University of Miami, Miller School of Medicine, Miami, USA \*\*\*\*.
- P193** **Poly N Acetyl Glucosamine: new treatment option in patients with hair loss associated with scalp inflammation.**  
C. Vincenzi\*, B. Marisaldi\*, A Tosti\*\*  
Nigrisoli Hospital Bologna\* Italy, Department of Dermatology University of Miami\*\* USA.
- P194** **Topical Sandalore®, a specific OR2AT4-stimulating odorant, ameliorates female telogen effluvium: Randomized, double-blinded, placebo-controlled clinical trial.**  
F Jimenez, E López, M Bertolini\*, M Alam, C Ward\*, J Chéret\*, G Westgate\*\*, F Rinaldi\*\*\*, R Paus\*\*\*\*  
Meditekna Clinic, Las Palmas; Monasterium Lab, Germany\*; Westgate Cons., Bedford, UK\*\*; Giuliani S.p.A. \*\*\*; Dept Dermatology, University of Miami, USA \*\*\*\*.
- P195** **Primary cutaneous follicle center lymphoma on scalp.**  
A. Ahmed, H. Almohanna, J. Griggs, A.Tosti,  
King Fahad Hospital, Dermatology Department, Medina, KSA. Prince Sultan Military Medical City, Dermatology Department, Riyadh, KSA. University of Miami Hospital, Dermatology Department, Miami, USA.
- P196** **In vitro antifungal effects of bee venom against malassezia species associated with seborrheic dermatitis.**  
JH Kim, JY Hong, JR Hong, HI Cheon, MS Hur, YW Lee, YB Choe, KJ Ahn  
Department of Dermatology, Konkuk University School of Medicine, Seoul, Korea.
- P197** **Effect on inflammatory cytokine levels in patients with seborrheic dermatitis using new-formula shampoo.**  
YW. Lee, JY Hong, JH Kim, JR Hong, HI Cheon, MS Hur, YB Choe, KJ Ahn  
Department of Dermatology, Konkuk University School of Medicine, Seoul, Korea.
- P198** **Dermcidin production in human hair follicle epithelium via or2at4 activation by a synthetic odorant increases follicular resistance to bacterial contamination: novel folliculitis therapy?**  
J. Lehmann<sup>(1)</sup>, J. Chéret<sup>(2)</sup>, L. Ponce<sup>(1)</sup>, F. Jimenez<sup>(3)</sup>, H. Erdmann<sup>(4)</sup>, M. Bertolini<sup>(1)</sup>, R. Paus<sup>(2,5)</sup>.  
Monasterium Laboratory, Muenster, Germany (1), University of Miami, Miami, FL, USA (2), Meditekna Clinic, Gran Canaria, Spain (3), Kosmed Klinik, Hamburg, Germany (4), University of Manchester, Manchester, UK (5)
- P199** **Clinical analysis of localized hypertrichosis.**  
GW Park, WI Kim, JB Lee\*, MB Kim  
Department of Dermatology, School of Medicine, Pusan National University, Cheonnam National University\*, Korea.
- P200** **Novel objective measurements of curl pattern facilitate communication and risk stratification in alopecia.**  
L. Krueger, C. Aguh\*, E. Peterson, K. Lo Sicco, J. Shapiro.  
The Ronald O. Perleman Department of Dermatology, New York University, New York, NY, Department of Dermatology, Johns Hopkins University\*, Baltimore, MD. USA.
- P201** **Clinical pattern of lichen planopilaris in patients with erosive vulvar lichen planus.**  
KK Khostikoeva, OV Parygina, OM Medetskaya, Ptashnikova, MV Oganasyan, YG Petunova, IO Smirnova  
Saint-Petersburg State University, Saint-Petersburg City Dermatovenerological Dispensary. Russia.
- P202** **Low-dose-naltrexone: a novel adjunctive treatment in symptomatic alopecias?**  
V. Tortelly, B. Nunes, L. Starling, T. Barreto, D. Melo  
Hospital Universitário Pedro Ernesto. Brazil.
- P203** **Tinea Capitis in Adults; An 18-year Epidemiological, Clinical and Mycological study in Korea.**  
J. Park, SW Park, SK Park, SK Yun, HU Kim  
Department of Dermatology, Chonbuk National University. Korea.
- P204** **Macrofibrils, the main building block of hair, are left handed**  
DP Harland<sup>(1)</sup>, V Novotna<sup>(1)</sup>, M Richena<sup>(1)</sup>, S Velamoor<sup>(1,2)</sup>, A. J. McKinnon<sup>(3)</sup>, Food and Bio-based Products Group, Ag. Research, Crown Research Institute, Lincoln, New Zealand<sup>(1)</sup>; Microbiology and Immunology, University of Otago, Dunedin, New Zealand<sup>(2)</sup>; Institute of Fundamental Sciences, Massey University, Palmerston North, New Zealand<sup>(3)</sup>.
- P205** **Pityriasis amiantacea: an epidemiologic study of 44 cases in Korean patients**  
SW Park, HB Kwak, SK Yun, HU Kim, J. Park  
Department of Dermatology, Chonbuk National University Medical School. Korea.
- P206** **Orwin's Threshold is a key point in the anagen follicle; what is it, where is it, and why?**  
DP Harland<sup>(1)</sup>, M Richena<sup>(1)</sup>, JE Plowman<sup>(1)</sup>, JA Vernon<sup>(1)</sup>, DR Scobie<sup>(2)</sup>, S Deb-Choudhury<sup>(1)</sup>, AG Grosvenor<sup>(1)</sup>, S Clerens<sup>(1)</sup>, TL Dawson Jr<sup>(3)</sup> Food and Bio-based Products Group, AgResearch, Crown Research Institute, Lincoln, New Zealand<sup>(1)</sup>; Farm Systems Group, AgResearch, Crown Research Institute, Lincoln, New Zealand<sup>(2)</sup>; Skin Research Institute of Singapore, Singapore; Medical University of South Carolina, School of Pharmacy, USA<sup>(3)</sup>.

## TOPIC: Miscellaneous

- P207 A Series of Scalp Allergic Contact Dermatitis Secondary to Hair Accessories Containing Nickel and Polyurethane.**  
*C. Pham, M. Juhasz, C. Ekelem, N. Atanaskova Mesinkovska*  
University of California, Irvine. USA.
- P208 Awareness regarding hair-care and treatment seeking behavior amongst a cohort of Indian Population: A survey of 1160 individuals**  
*M. Mhatre, R. Dhurat\*, A. Sharma\**  
Departments of Dermatology, Wockhardt Hospitals & Lokmanya Tilak Municipal General Hospital\*. Mumbai, India.
- P209 Mycosis fungoides areata-like in an ophiasis pattern**  
*P. Ramos<sup>1</sup>, MT Nakandakari<sup>2</sup>*  
São Paulo State University<sup>1</sup> (UNESP), Botucatu. Private practice<sup>2</sup>, Bauru - Brazil.
- P210 Alopecia as the uncommon side-effect of anti-tuberculosis drugs**  
*KS Kim, SY Yang, JE Hahm, CW Kim, SS Kim*  
Department of Dermatology, Kangdong Sacred Heart Hospital, Hallym University. Korea
- P211 Assessment of the “skinscreen” social media video library to augment physician-patient education**  
*K. Svigos, E. Peterson, J. Zampella, J. Shapiro, K. Lo Sicco, K. Sukhdeo*  
Ronald. O. Perelman Department of Dermatology of New York University Langone Health. USA.
- P212 The influence of ultrastructure and protein composition on hair properties: a first step toward control of hair appearance at the follicle level**  
*M. Richena<sup>(1)</sup>, J. Plowman<sup>(1)</sup>, D. Scobie<sup>(2)</sup>, A. Grosvenor<sup>(1)</sup>, J. Vernon<sup>(1)</sup>, S. Clerens<sup>(1)</sup>, D. Harland<sup>(1)</sup>*  
Food and Bio-Based Products Group, AgResearch, Crown Research Institute, Lincoln, New Zealand <sup>(1)</sup> Farm Systems Group, AgResearch, Crown Research Institute, Lincoln, New Zealand. <sup>(2)</sup>
- P213 Cholesterol homeostasis is disrupted by abca5 knockdown in outer root sheath keratinocytes**  
*M. Palmer, I. Haslam*  
University of Huddersfield. UK.
- P214 Colchicine induced telogen effluvium**  
*D. Omoto, M. Nakamura*  
Department of Dermatology, School of Medicine University of Occupational and Environmental Health. Japan.
- P215 Analysis of hair and serum copper, zinc levels in hair loss patients**  
*SS Kim, JE Hahm, KS Kim, SY Yang, CW Kim*  
Hallym University Kangdong Sacred Heart Hospital, Department of Dermatology. Korea South.
- P216 Nuclear expression of HIF1a, ARNT and Notch2 in human hair follicles vs epidermis define the association of HIF1 with distinct physiological phenomena**  
*VV Shinin, AA Panteleyev*  
National Research Center Kurchatov Institute, Moscow, Russian Federation.
- P217 Tinea capitis in adults in Rio de Janeiro, Brazil**  
*C. Salas-Callo, R. Pirmez, R. Schechtman*  
Department of Dermatology, Instituto de Dermatologia Professor Rubem David Azulay, Santa Casa da Misericórdia do Rio de Janeiro, Brazil.
- P218 Towards development of a completely human model system for the re-innervation of scalp skin and hair follicles ex vivo**  
*J. Chéret<sup>(1,2)</sup>, I. Piccini<sup>(1)</sup>, L. Ponce<sup>(1)</sup>, M. Bertolini<sup>(1)</sup>, R. Paus<sup>(2,3)</sup>*  
Monasterium Laboratory, Münster, Germany<sup>(1)</sup>, University of Miami Miller School of Medicine, Miami, Florida, USA<sup>(2)</sup>, University of Manchester, Manchester, United Kingdom <sup>(3)</sup>
- P219 Unusual patterned presentation of trichotillomania masquerading as female pattern hair loss**  
*A. Sayyad, R. Dhurat, S. Agrawal, S. Daruwala*  
Lokmanya Tilak municipal medical college and general hospital, Sion, Mumbai. India
- P220 A case of tinea capitis by microsporum ferrugineum treated successfully with terbinafine**  
*M. Iglesias Sancho, E. Amores Martin, N. Setó Torrent, M. Salleras Redonnet.*  
Department of Dermatology, Hospital Universitari Sagrat Cor, Barcelona, Spain.







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## Plan to Attend

### General Outline, so you can plan your travel

<b>TUESDAY</b> November 12, 2019	Ancillary Meeting: ABHRS Exams
<b>WEDNESDAY</b> November 13, 2019	Pre-Congress Courses: <ul style="list-style-type: none"> <li>Basics Course</li> <li>Advanced/Board Review</li> <li>Surgical Assistants Program</li> <li>Half-Day Course</li> </ul>
<b>THURSDAY</b> November 14, 2019	<ul style="list-style-type: none"> <li>General Session</li> <li>Live Patient Viewing</li> <li>Welcome Reception</li> </ul>
<b>FRIDAY</b> November 15, 2019	<ul style="list-style-type: none"> <li>Discussion Table Topics</li> <li>General Session</li> <li>Workshops</li> <li>M&amp;M Conference</li> </ul>
<b>SATURDAY</b> November 16, 2019	<ul style="list-style-type: none"> <li>General Session <i>until noon</i></li> <li>World Congress <i>ends at noon</i></li> <li>WLSW: Triple Crown <i>begins (SMP) at the hotel when the World Congress ends</i></li> <li>Gala! <i>in the evening</i></li> </ul>
<b>SUNDAY</b> November 17, 2019	WLSW: Triple Crown <i>hospital all day</i>



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WLSW SMP Co-Chair | **Timothy P. Carman, MD, FISHRS**

The ISHRS is the leader in high quality education for hair restoration surgeons. The ISHRS has achieved the highest level of accreditation to organize education for physicians from the renowned Accreditation Council for Continuing Medical Education.



**[www.27thannual.org](http://www.27thannual.org)**





**Aderans Bringing Smiles to the World**

**as a “Wellness Company”**



Aderans Group was founded in 1968 with the hope to “help solve customers who are worried about hair loss and bring smiles to their face”. As our management vision is to “become a Good Company”, we aim to bring smiles to faces, so they can fulfill their dreams and live full, happy lives.

Starting in Japan, we have been improving the Quality of Life of the world in 19 countries and areas such as North America, Europe, and Asia as a total hair solution company.

As a “Wellness Company” including hair-related, beauty and health, we would like to put the best smiles on faces and bring full, happy lives as a “World’s Brand, Aderans”.

\*Please look at our Homepage for more information.

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PREMIUM  
BY SENTOO COLLECTION

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SENTOO COLLECTION

ANY  
D'AVRAY  
CENTRE DE CHEVEUX PARIS

BOSLEY

HAIRCLUB

**Proving Dreams and Excitement by Promoting Overall Wellness Through our Hair-related, Beauty and Health Business**

## About Aderans' CSR

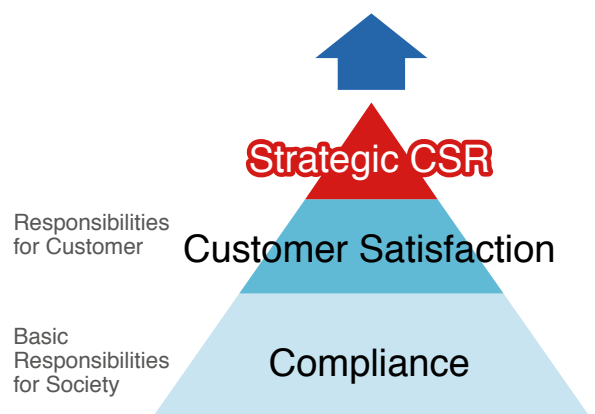
The Aderans Group aim to use its strengths to make positive impacts on society with strategic CSR activities to unify the business. Some examples include “Love Charity”, which is an activity to gift custom-made wigs to children who have lost their hair through medical treatment and put back smiles on their face, “Fontaine Green Forest Campaign”, which is an eco-cycle system to collect unneeded wigs from customers and plant trees in forests, and Industry-University collaborated research for healthier hair and scalp. The number of activities is increasing yearly.

As a global company, it is essential to have global perspectives for social responsibility. Our company strive for our employees to have their own sense of social responsibility, playing an active role in various fields, and aim to become a Good Company full of CSR activities.

## Medical Business with the Base of CSR Activities

In Japan, we have 31 in-hospital hair salons with a barrier-free environment with items such as Mobile Salon Chairs. This has been getting very high evaluation from people from the medical field. With Oita University, we conducted a joint research project on “Novel Alpha-Lipoic Acid Derivatives”. This led to the creation of a scalp care lotion for patients with disease such as breast cancer who use medical treatment. Also, we have been conducting a joint research project with Osaka University for 15 years on the red LED light, which is known to be effective on hair growth.

CSR by integrating with core business



**Aderans**

GLOBAL WELLNESS COMPANY

<https://www.aderans.co.jp/corporate/english/csr/>





## **NEW RESEARCH: ALOPECIA AREATA**

CTP-543 is an oral selective inhibitor of Janus kinase 1 and 2, known as JAK1 and JAK2. There is growing evidence that JAK signaling underlies the pathophysiology in alopecia areata.

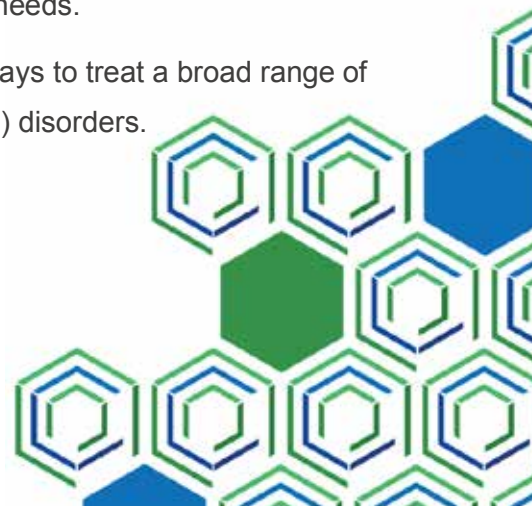
Initial results in a Phase 2 trial evaluating CTP-543 in patients with moderate-to-severe alopecia areata showed statistically significant hair regrowth. Clinical evaluation is ongoing.

For more information on our clinical trials please visit [www.clinicaltrials.gov](http://www.clinicaltrials.gov).

### **Product Innovation. Patient Impact.**

At Concert Pharmaceuticals, we are focused on the discovery and development of innovative drug products that positively impact patients and address important medical needs.

Our pipeline of new medicines is rapidly advancing to offer innovative ways to treat a broad range of disease areas, targeting autoimmune and central nervous system (CNS) disorders.





## Samumed is a leader in medical research and development for tissue-level regeneration

With its platform's origins in small-molecule-based Wnt pathway modulation, Samumed develops therapeutics to address a range of degenerative diseases, regenerative medicine, and oncology.



Samumed is currently enrolling a phase 2/3 multi-center, randomized, double-blind, placebo-controlled, parallel-group study of two doses of topical SM04554 solution (0.15% and 0.25%) applied daily to the scalp of male AGA subjects. The trial is a 54-week study, with 48 weeks of treatment followed by 6 weeks of follow-up.

**Learn more at [www.samumed.com](http://www.samumed.com)**

**samumed**

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

# SAVE THE DATE

## WORLD CONGRESS FOR HAIR RESEARCH 2021

9 - 12 April 2021

On behalf of the organising committee, we are excited to welcome you to Melbourne for the World Congress for Hair Research 2021.

Sign up to our mailing list to receive updates on the program, speakers and social functions:



<https://www.hair2021.org/>



[hair2021@arinex.com.au](mailto:hair2021@arinex.com.au)

Melbourne is the second largest city in Australia and is renowned as Australia's knowledge and cultural capital. Melbourne offers a sophisticated multi-cultural lifestyle, hidden laneways abundant with arts, museums, festivals, sporting events, food, wine, shopping and much more.

Explore Melbourne beyond just the Congress and immerse yourself in sightseeing and activities that Melbourne and Australia have to offer! Start planning your trip to Melbourne and get inspired by my favorite spots to visit around Australia:

- › Royal Botanic Gardens Victoria
- › National Gallery of Victoria
- › Hammer Hall
- › Federation Square
- › Melbourne Zoo
- › Melbourne Cricket Ground (MCG) Tour
- › Great Ocean Road
- › Bondi Beach
- › Uluru
- › Great Barrier Reef
- › Wine Glass Bay
- › And so much more!

Melbourne really is the place to be and we are excited to invite you to this stunning city.

**Prof Rod Sinclair,**  
Chair of WCHR 2021

**Interested in sponsoring WCHR 2021? Email: [sponsorship@arinex.com.au](mailto:sponsorship@arinex.com.au)**







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