

**Reflect, Rejuvenate, and
REGENERATE**

November 18-21, 2015

9th World Congress for Hair Research

**Miami • Florida • USA
InterContinental Hotel Miami**

**A Comprehensive,
International
Hair Research Meeting
for the
Advancement of
Knowledge
In Hair Growth,
Hair and Scalp Disease,
and Clinical Care**



Final Program Guide
www.hair2015.org

Hosted by **NORTH AMERICAN HAIR RESEARCH SOCIETY** 

CME sponsored by



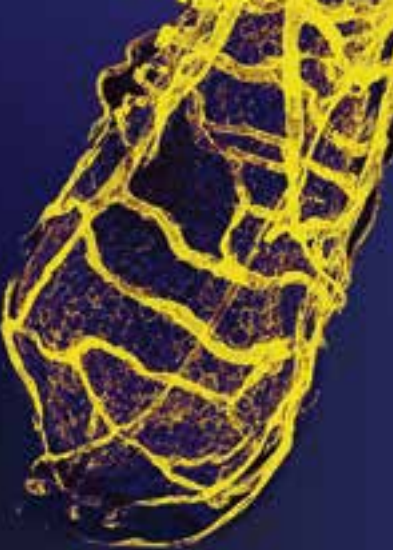


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NO PHOTOGRAPHY &
NO VIDEO RECORDING
OF SCIENTIFIC SESSIONS

Thank you for
your cooperation.



Dear Colleagues,

The North American Hair Research Society (NAHRS), with participation from the Australasian Hair & Wool Research Society, the European Society for Hair Research, the Hair Research Society of India, the Japanese Society for Hair Research, and the Korean Hair Research Society, welcome you to the 9th World Congress for Hair Research.

We celebrate the bringing together of International colleagues who will present new research, share experiences, and discuss new directions for the advancement of knowledge in hair growth, hair and scalp disease, and clinical care. Thank you for your participation and contributions in making the Congress a success.

Welcome to Miami!

Warmest regards,

Congress Scientific Planning Committee

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Final Program Guide

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Welcome to
MIAMI

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Hair Research Societies

We gratefully acknowledge the contributions and affiliations of the hair research "sister societies." Thank you for your support!

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Organizer together with JSCHR of

10th WCHR

October 31-November 3, 2017 • Kyoto

www.congre.co.jp/wchr2017/

CONGRESS VENUE Annex Hall
Kyoto International Conference Center
Kyoto, Japan

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November 18-21, 2015 • Miami

www.nahrs.org

PRESIDENT Wilma F. Bergfeld, MD

SECRETARY-TREASURER Maria K. Hordinsky, MD

VISIT THE WCHR2015 WEBSITE
FOR MEETING INFORMATION

www.hair2015.org

*If you have any questions
or for more information, please contact:*

REGISTRAR

North American Hair Research Society
303 West State Street, Geneva, IL 60134 USA
Phone 1-630-578-3991 | Fax 1-630-262-1520
info@nahrs.org | www.NAHS.org

9th World Congress for Hair Research (2015 WCHR)

November 18-21, 2015 | InterContinental Hotel Miami | 100 Chopin Plaza | Miami, Florida 33131 | USA

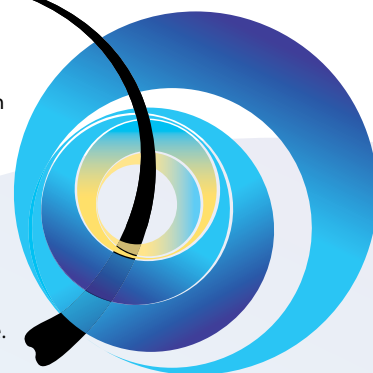
HOST/ORGANIZER North American Hair Research Society

OFFICIAL LANGUAGE English

CONGRESS PURPOSE The ultimate goal of the World Congress for Hair Research is to offer a comprehensive hair research meeting with our international colleagues to present new research, share experiences, and discuss new directions for the advancement of knowledge in hair growth, hair and scalp disease, and clinical care.

CONGRESS THEME The theme is *Reflect, Rejuvenate, and REGENERATE* as we reflect on hair follicle regeneration and rejuvenate our minds with new ideas and collaborations.

CONGRESS LOGO The center of the orb is a hair shaft from which swirls emanate. Symbolic nature of the shaft implies the conference is about all aspects that impact hair. Orb is symbolic of the world and convergence of ideas.



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NEXT WORLD CONGRESS

OCT. 31-NOV. 3, 2017

10TH World Congress for
Hair Research WCHR 2017

KYOTO, JAPAN



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WEATHER

November marks the beginning of the onset of winter in Miami, but a warm winter it is. Compared to the sizzling heat of the summer months, many find this the best time of year to visit Miami for pleasant weather. The temperature will vary between a high of 79°F and a low of 66°F (26°C to 19°C). It is recommended that you pack a light jacket or sweater for evenings and air-conditioned meeting rooms. There is a lower expectation of rain in the month of November compared to preceding months, and there will be approximately 7 hours of daylight at this time of year. For those planning to take a dip in the ocean, the sea temperature is approximately 79°F in November.

PERSONS WITH DISABILITIES

The 9th World Congress for Hair Research fully complies with the legal requirements of the Americans with Disabilities Act (ADA) and the rules and regulations thereof. If any participant in this educational activity is in need of support services, please notify the NAHRS Headquarters Office at 1-630-578-3991 or info@nahrs.org as soon as possible, and preferably before October 18, 2015.

TICKETS

Tickets are not required for the following, but a Congress name badge is required:

- Welcome Reception
- Posters
- Exhibits
- General and Concurrent Sessions, Wednesday through Saturday

Tickets are required for the following:

- Wednesday Pre-Congress Courses
- Satellite Symposia
- Friday Congress Dinner

You may opt to purchase Pre-Congress Course and Congress Dinner tickets separately during the WCHR online registration process. You may choose to register for the Satellite Symposium during the registration process. You will receive your tickets in your registration packet. You may check with Registration Desk onsite for availability of tickets.

MEETING ATTIRE

The attire for the educational sessions is business. Attire at the Friday Evening Congress Dinner is cocktail or business. The Dinner theme is Cuban/tropical, so you may want to dress for the theme.

OFFICIAL LANGUAGE

The official language of the 9th World Congress for Hair Research is English. No simultaneous interpretation will be provided.

CANCELLATION/REFUND POLICY

Registration fees, less a \$100.00 administration fee, will be refunded upon written notice of cancellation to the WCHR2015 Registrar's office received on or before October 16, 2015. After October 16, 2015, there will be no refund of fees for cancellation or for lack of attendance without notification. It is your responsibility to ensure that your cancellation request has been received by the WCHR2015 Registrar's office. "No shows" who have not pre-paid will be invoiced for the total registration fee.

VIDEO, PHOTOGRAPHY & AUDIO RECORDING 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. Audio recording for personal use only is permitted (i.e., for gathering information and NOT for rebroadcast or reproduction). Photography of scientific material is strictly prohibited. The only exception to the photography policy is photos taken by the official WCHR photographer, for purposes of podium photos to use in WCHR publications.

CELLULAR PHONE POLICY

The use of cellular phones in the General & Concurrent Session or workshop rooms is strictly prohibited. Attendees must either turn off or vibrate cellular phones.

DISCLAIMER

As an educational meeting, the WCHR2015 does not specifically approve, promote or accept the opinions, ideas, procedures, medications or devices presented in any paper, poster, discussion, forum or panel, course, or satellite symposia. By attending this program, in no way does it suggest that participants are trained and/or certified in the disciplines of hair research, hair disease, hair growth, or hair loss. All speakers, topics, and schedules are subject to change without prior notification, and will not be considered reasons for refund requests.



Continuing Medical Education (CME) Information

ACCREDITATION This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the University of Miami Leonard M. Miller School of Medicine and North American Hair Research Society. The University of Miami Leonard M. Miller School of Medicine is accredited by the ACCME to provide continuing medical education for physicians.

CREDIT HOURS The University of Miami Leonard M. Miller School of Medicine designates this live activity for a maximum of **23.75 AMA PRA Category 1 Credit™**. Physicians should claim only credit commensurate with the extent of their participation in the activity.

LEARNING OBJECTIVES Learning objectives are denoted by each session and course throughout this program. In addition, in the Abstract Book there is a learning objective for each presentation.

DOCUMENTATION OF ATTENDANCE FOR CME

1. Complete "CME Credit Claim Form" within one week.
2. CME Certificate will be emailed to attendees approximately 4 to 6 weeks after the conference.

EVALUATIONS Conference evaluations are a valuable tool in assisting to better serve you. Within five (5) business days of attending this conference, you will receive via e-mail a link through which you can complete a participant evaluation. We welcome your comments and suggestions. An outcome evaluation will be conducted 2 to 3 months following the course to measure the impact this activity had in changing performance and patient outcomes. We encourage and appreciate your participation.

ACKNOWLEDGEMENT

This CME Activity is partially supported by:

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- National Institute Of Arthritis And Musculoskeletal And Skin Diseases (NIAMS)
- International Society of Hair Restoration Surgery (ISHRS)
- Cicatricial Alopecia Research Foundation (CARF)
- National Alopecia Areata Foundation (NAAF)
- World Trichology Society (WTS)
- David M.C. Ju Foundation

DISCLOSURE AND CONFLICT OF INTEREST RESOLUTION

In accordance with the 2004 Updated ACCME Standards for Commercial Support the University of Miami Leonard M. Miller School of Medicine requires everyone in a position to control the content of a Continuing Medical Education activity – the Course Director(s), Planning Committee Members and all individuals participating as speakers, moderators or authors to disclose all relevant financial relationships with any commercial interest. All potential conflicts of interest are identified and resolved prior to the education activity being provided to learners. Disclosure of relevant financial relationship(s) will be provided to learners prior to the beginning of the educational activity. See Abstract Book and Course Handouts for list of Faculty Disclosures.

TIME	WEDNESDAY NOV 18, 2015	THURSDAY NOV 19, 2015	FRIDAY NOV 20, 2015	SATURDAY NOV 21, 2015
7:00am		International Board Meeting		AHWRS Member Meeting
7:30am		Sandringham/Windsor	Satellite Symposium Women's Rogaine Trianon	Sandringham
8:00am				Coffee with the Experts
8:30am		Live Patient Viewing - A. Tosti 8:30-9:15 Pt Viewing Biscayne 9:15-11:00 Discussion Versailles		Versailles
9:00am				
9:30am				
10:00am			Hormones, Hair Growth and Pattern Hair Loss - W. Bergfeld	Genetics, Genomics, & Personalized Medicine/ Biomarkers - A. Christiano
10:30am			Versailles	Versailles
11:00am		Exhibits/Posters/Coffee	Exhibits/Posters/Coffee	Coffee
11:30am	Registration Opens	Immunobiology, Alopecia Areata - M. Hordinsky	Stem Cells & Stem Cell Niches - G. Cotsarelis	Clinical Trials - J. Shapiro
12:00 noon	Mezzanine	Versailles	Versailles	Versailles
12:30pm				
1:00pm	Exhibit Set-up Mezzanine Poster Set-up Biscayne & Chopin	Satellite Symposium P & G Trianon	Satellite Symposium Viviscal Trianon	KHRS Member Meeting Sandringham
1:30pm				New Topics Selected from Abstracts: Part II - L. King Versailles
2:00pm				
2:30pm		Morphogenesis, Neogenesis and Tissue Engineering - S. Millar	Emerging Technologies and Therapies - K. Washenik	Closing Ceremony & Awards Versailles
3:00pm				
3:30pm				
4:00pm		Exhibits/Posters/Coffee	Exhibits/Posters/Coffee	
4:30pm		Auxiliary Cells - V. Horsley	Structure, Biology & Hair Curl, Color & Luster - T. Dawson	
5:00pm	Opening Ceremony Keynotes - R. Rox Anderson - JEbling Lecture: M. Philpott		New Topics Selected from Abstracts: Part I - V. Barbosa	
5:30pm		Versailles	Trianon	Exhibits dismantle Posters dismantle
6:00pm	Versailles			
6:30pm	Welcome Reception	Great Cases from South America - R. Romiti Versailles		
7:00pm	Exhibit & Poster Area	Evening free	Congress Dinner	
7:30pm	Mezzanine		Pool Terrace	
8:00pm	Evening free			
8:30pm				
9:00pm				
9:30pm				
10:00pm				



9th World Congress for Hair Research

WEDNESDAY | November 18, 2015

9:00AM-11:30AM **NAHRS BOARD OF DIRECTORS MEETING**
(invitation only)

10:00AM-6:30PM **SPEAKER READY ROOM** Oxford

11:30AM-7:30PM **REGISTRATION** Mezzanine

1:00PM-4:30PM **EXHIBITORS MOVE-IN**

1:00PM-4:30PM **POSTER PRESENTERS HANG THEIR POSTERS**
P001-P164 **Chopin** | P165-P248 **Biscayne**

1:00PM-4:30PM **PRE-CONGRESS COURSES**

PRE-CONGRESS COURSES Registration is required and will be confirmed on a first-come, first served basis. FEE: \$50 per course. Only those who register for the full congress may purchase a ticket for a pre-congress course.

1:00PM-4:30PM **101: BASIC COURSE ON DIAGNOSIS AND TREATMENT OF HAIR DISORDERS** (ticket required)

Tranon



Lynne J. Goldberg, MD



Paradi Mirmirani, MD



Andrew G. Messenger, MD



Amy McMichael, MD



Leonard Sperling, MD

DIRECTOR

Lynne J. Goldberg, MD, Professor of Dermatology and Pathology & Laboratory Medicine, Boston University School of Medicine; Director, Hair Clinic, Boston Medical Center, Boston, MA, USA

CO-DIRECTOR

Paradi Mirmirani, MD, Department of Dermatology, The Permanente Medical Group, Vallejo, CA, USA; Assistant Clinical Professor, Department of Dermatology, The University of California San Francisco, CA, USA

LEARNING OBJECTIVES

- Recognize the different clinical features that distinguish between non scarring alopecias and lymphocytic and neutrophilic scarring alopecias.
- Assess the different histopathologic features you might encounter in a scalp biopsy for hair loss for better clinicopathologic correlation.
- Design a first and second line treatment plan for the different types of alopecia.

COURSE OUTLINE

1:00PM-1:45PM **45 My approach to the diagnosis and treatment of non-scarring alopecia**

Andrew G. Messenger, MD, Professor of Dermatology, University of Sheffield, United Kingdom

1:45PM-2:30PM **45 My approach to the diagnosis and treatment of scarring alopecia**

Paradi Mirmirani, MD

2:30PM-3:00PM **30 Special considerations for the alopecia patient of color**

Amy McMichael, MD, Professor and Chair, Department of Dermatology, Wake Forest Baptist Health, Winston-Salem, NC, USA

3:00PM-3:15PM **15 Break** (coffee, soda, snacks)

3:15PM-4:00PM **45 Histopathologic features of scarring and non-scarring alopecia**

Leonard Sperling, MD, Professor of Dermatology and Pathology at the Uniformed Services University of the Health Sciences, Bethesda, MD, USA

4:00PM-4:15PM **15 How to decipher a biopsy report of alopecia**

Lynne J. Goldberg, MD

4:15PM-4:30PM **15 Panel Question & Answer Session**

1:00PM-4:30PM 102: EPIDEMIOLOGY & CLINICAL TRIAL DESIGN (ticket required)**Sandringham/Windsor**

Julian Mackay-Wiggan, MD, MS



James A. Solomon, MD, PhD



Tito R. Mendoza, PhD, MS, MEd



Erika L. Hagstrom, MD



Madeleine Duvic, MD



Natasha A. Mesinkovska, MD, PhD

DIRECTOR

Julian Mackay-Wiggan, MD, MS, Associate Professor of Dermatology at CUMC and Director of the Dermatology Clinical Research Unit, Columbia University College of Physicians & Surgeons, New York City, NY, USA

LEARNING OBJECTIVES

- Discuss the basics of good clinical trial design and interpretation.
- Explain the rationale for factors that are considered in, and may alter, a study's design.
- Recognize the basic concepts of different types of clinical research such as epidemiologic studies, registry studies, and clinical trials.
- Appraise the use of electronic medical records in clinical research.
- Evaluate the steps involved in developing a patient-reported outcome measure in alopecia areata.

COURSE OUTLINE

1:00PM-1:10PM 10 Introduction and Welcome
Julian Mackay-Wiggan, MD, MS

1:10PM-1:30PM 20 National Alopecia Areata Foundation (NAAF) Uniform Protocol Development Project: A Plug & Play Method to Facilitate the Clinical Trial Process
James A. Solomon, MD, PhD, Associate Professor, University Central Florida, College of Medicine, Orlando, FL, USA; Assistant Clinical Professor, University of Illinois, College of Medicine, Urbana, IL, USA;
Director, Ameriderm Research, Ormond Beach, FL, USA

1:40PM-2:00PM 20 Quality of Life Measures in Alopecia Areata and the Development of the Alopecia Areata Symptom Impact Scale (AASIS)
Tito R. Mendoza, PhD, MS, MEd, Associate Professor, Department of Symptom Research, The University of Texas MD Anderson Cancer Center, Houston, TX, USA

2:10PM-2:30PM 20 Global burden of disease findings for hair loss (AA, scarring alopecias, MPH, FPHL, etc.)

Erika L. Hagstrom, MD, Internal Medicine Preliminary Resident, Loyola University, Chicago, IL USA

2:40PM-3:00PM 20 Lessons learned from the alopecia areata registry – special considerations for registry type clinical research

Madeleine Duvic, MD, Professor and Deputy Chair Dermatology, UT MD Anderson Cancer Center, Houston, TX, USA

3:10PM-3:25PM 15 Break (coffee, soda, snacks)

3:25PM-3:45PM 20 Use of Electronic medical record for clinical trials or epidemiological studies - The Cleveland Clinic Experience

Natasha Atanaskova Mesinkovska MD PhD, Staff, Department of Dermatology, Department of Dermatopathology, Cleveland Clinic, Cleveland, OH, USA

3:55PM-4:20PM 25 Recent clinical trials in alopecia areata: Optimal design vs. reality. Acknowledging limitations when discussing results
Julian Mackay-Wiggan, MD, MS

4:20PM-4:30PM 10 Questions and Summation
Julian Mackay-Wiggan, MD, MS

1:00PM-4:30PM 103: BASIC SCIENCE COURSE FOR HAIR RESEARCHERS (ticket required)

Trade Room



Angela M. Christiano, PhD



Valerie Horsley, PhD



Sarah E. Millar, PhD



Mayumi Ito, PhD



Peggy Myung, MD, PhD



Michael Rendl, MD

CO-DIRECTORS

Angela M. Christiano, PhD, Professor of Dermatology and Genetics & Development, Columbia University, New York City, NY, USA

Valerie Horsley, PhD, Associate Professor of Molecular, Cellular, & Developmental Biology, Yale University, New Haven, CT, USA

Sarah E. Millar, PhD, Professor, Departments of Dermatology and Cell & Developmental Biology and Vice-Chair for Research, Department of Dermatology, University of Pennsylvania, Philadelphia, PA, USA

COURSE OUTLINE

1:00PM-1:10PM 10 Introduction and Welcome
Sarah E. Millar, PhD & Valerie Horsley, PhD

1:10PM-1:40PM 30 Wnt signaling in hair follicle development and cycling
Sarah E. Millar, PhD

1:50PM-2:20PM 30 Melanocytes in the Hair Cycle
Mayumi Ito, PhD, Associate Professor, Department of Dermatology, Department of Cell Biology, New York University School of Medicine, NY, USA

2:30PM-3:00PM 30 Mesenchymal lineages in the skin - Fibroblasts and adipocytes
Valerie Horsley, PhD

3:10-3:25PM 15 Break (coffee, soda, snacks)

3:25-3:45PM 20 Stem Cell Niches in the Hair Follicle
Peggy Myung, MD, PhD, Assistant Professor, Department of Dermatology, Yale University, New Haven, CT, USA

3:55PM-4:15PM 20 Regulation of hair formation, growth and cycle by dermal papilla
Michael Rendl, MD, Associate Professor, Developmental and Regenerative Biology and Dermatology; and Member of the Black Family Stem Cell Institute, Icahn School of Medicine at Mount Sinai, New York, NY, USA

4:15PM-4:30PM 15 Q&A

WCHR 2015 Commemorative Prints HAIR FOLLICLE CONFOCAL IMAGES



A limited edition set of four photographic prints featuring award winning, hair follicle confocal images.

Included is an information insert with detailed descriptions of each image, credits and acknowledgement.

SET OF FOUR PRINTS
\$60 USD

11 inches x 14 inches
Suitable for framing.

See Registration Desk for details.

For your office or lab
Great as a gift for your mentor,
student, or colleague!

FOR
PURCHASE
\$60

5:00PM-6:30PM

OPENING CEREMONY

Versailles



Wilma F. Bergfeld, MD



Angela M. Christiano, PhD



Maria K. Hordinsky, MD



R. Rox Anderson, MD



Abraham Zlotogorski, MD



Mike P. Philpott, BSc, D. Phil

5:00PM-5:25PM Welcome to Miami! Congress Welcome & Acknowledgement of Highest Level Corporate Supporters and Sister Societies

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Angela M. Christiano, PhD, Professor of Dermatology and Genetics & Development, Columbia University, New York City, NY, USA

Maria K. Hordinsky, MD, Professor and Chair, Department of Dermatology, University of Minnesota, Minneapolis, MN, USA

5:25PM-5:55PM KEYNOTE SPEAKER

Low level light therapy for hair loss: clinical use, mechanisms and important questions

- 001 R. Rox Anderson, MD**, Professor of Dermatology, Harvard Medical School, Boston, MA, USA; Director, Wellman Center for Photomedicine, Massachusetts General Hospital, Boston, MA, USA; Adjunct Professor, M.I.T., Cambridge, MA, USA

LEARNING OBJECTIVES

- Describe the latest research with low level lasers and their effect on the hair follicle and sebaceous gland.

JOHN EBLING LECTURE

The European Hair Research Society (EHRS) sponsors each year since 1993 a prestigious lecture in memory of the late John Ebling, an internationally renowned zoologist. Dr. Ebling's hair research work was mainly devoted to understanding how hair growth and sebaceous gland activity is regulated, particularly the role of the endocrine system.

Sponsored by an educational grant from

Johnson & Johnson CONSUMER INC.

INTRODUCTION BY

Abraham Zlotogorski, MD, Professor and Chair, Department of Dermatology, Hadassah-Hebrew University Medical Center, Jerusalem, Israel; President, European Hair Research Society

6:00PM-6:30PM KEYNOTE SPEAKER

Hairs to hedgehogs: From in vitro modelling of the human hair follicle to basal cell carcinoma

- 002 Mike P. Philpott, BSc, D.Phil**, Professor of Cutaneous Biology, Centre for Cutaneous Research, Blizard Institute, Barts and The London School of Medicine and Dentistry, London, U.K.

LEARNING OBJECTIVES

- Describe the role in vitro models have played in our understanding of hair biology and how future models may further aid our studies.

6:30PM-8:00PM WELCOME RECEPTION, WITH EXHIBITS AND POSTER VIEWING

Welcome

RECEPTION

DATE: Wednesday | NOVEMBER 18, 2015

TIME: 6:30PM-8:00PM

FEE: No extra fee required.

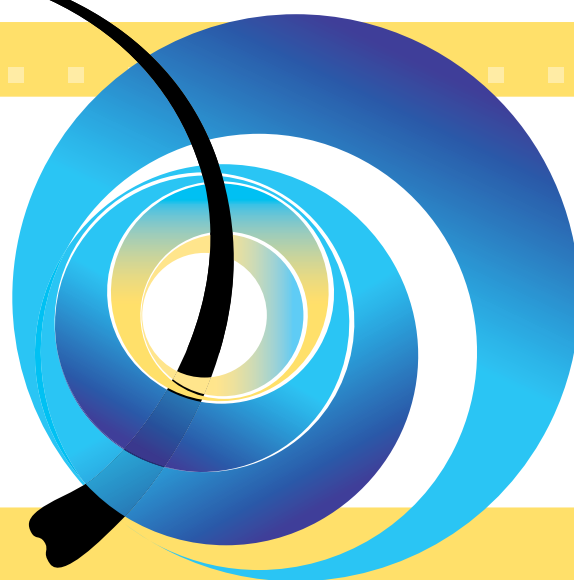
LOCATION: Mezzanine Foyer, InterContinental Hotel Miami

Join us

in the exhibit area after the Opening Ceremony to socialize, unwind and spend time talking with exhibitors and reviewing their products and services in a relaxed atmosphere. The scientific posters will also be available for viewing. Cocktails and hors d'oeuvres will be served.



This event is open to all registered meeting attendees. Attendees may purchase an extra ticket for accompanying guest(s) during registration process.



THURSDAY | November 19, 2015

7:00AM-8:00AM INTERNATIONAL BOARD OF HAIR RESEARCH SOCIETIES MEETING *(invitation only)*

Sandringham/Windsor

7:00AM-7:00PM SPEAKER READY ROOM **Oxford**

7:00AM-7:00PM REGISTRATION **Mezzanine**

7:30AM-5:00PM EXHIBIT VIEWING **Mezzanine**

7:30AM-9:00PM POSTER VIEWING **Biscayne & Chopin**

7:30AM-8:45AM FORMAL POSTER SESSION: EVEN NUMBERS

7:30AM-9:30AM EXHIBITS & POSTER VIEWING WITH COFFEE AVAILABLE
Coffee generously sponsored by P&G.

7:30AM-9:30AM CONTINENTAL BREAKFAST **Mezzanine**

8:30AM-10:00AM HAIR TRANSPLANTATION

Trianon



Paul T. Rose, MD, JD



Nilofer P. Farjo, MBChB



Chang-Hun Huh, MD, PhD

DIRECTOR

Paul T. Rose, MD, JD, Medical Director, Hair Transplant Institute Miami, Miami, FL, USA

CO-DIRECTORS

Nilofer P. Farjo, MBChB, Director, Farjo Hair Institute, Manchester, United Kingdom

Chang-Hun Huh, MD, PhD, Associate Professor, Department of Dermatology, Seoul National University Bundang Hospital, South Korea

INVITED SPEAKERS

Indications for Strip Harvesting vs Follicular Unit Extraction in Hair Restoration Surgery

Nilofer P. Farjo, MBChB

Robotic Hair Transplant Surgery

Chang-Hun Huh, MD, PhD

LEARNING OBJECTIVES

- Describe the latest techniques and technologies in hair transplantation for hair loss.

8:30AM-8:32AM	2	Moderator Introduction
003		Paul T. Rose, MD, JD USA
8:32AM-8:44AM	12	Robotic Hair Transplant Surgery
004		Chang-Hun Huh, MD, PhD Korea
8:44AM-8:56AM	12	Indications for Strip Harvesting vs Follicular Unit Extraction in Hair Restoration Surgery
005		Nilofer P. Farjo, MBChB United Kingdom
8:57AM-9:05AM	8	Allogeneic Hair Transplantation with Enhanced Survival by Anti-ICAM-1 Antibody in Nonhuman Primate
006		Jin Yong Kim, MD Korea
9:05AM-9:13AM	8	Genomics Comparison of Hair Follicles from FUT, FUE, and Plucks
007		Bradley R. Wolf, MD USA
9:14AM-9:22AM	8	Efficient Two Step Procedure For Scalp Scar Repair Combining Fat and Hair Grafting
008		Gorana Kuka, MD Serbia
9:22AM-9:30AM	8	Hair Transplant in Hypertrophic Scars Using PL-FUT
009		Kristel BJ van Herwijnen, MD The Netherlands
9:30AM-9:38AM	8	Eyelash Transplantation: Sequelae & Complication Management
010		Alan J. Bauman, MD USA
9:39AM-9:47AM	8	Hair Transplantation for the Treatment of End-Stage Scarring Alopecia
011		Meena K. Singh, MD USA
9:48AM-10:00AM	12	Q&A

8:30AM-11:00AM LIVE PATIENT VIEWING & DISCUSSION**Biscayne & Versailles**

Antonella Tosti, MD

DIRECTOR

Antonella Tosti, MD, Clinical Professor,
Department of Dermatology and Cutaneous
Surgery, University of Miami, Miami, FL, USA

*With the collaboration of residents and fellows from
the University of Miami Department of Dermatology
and Cutaneous Surgery*

LEARNING OBJECTIVES

- Recognize the different clinical features that distinguish between telogen effluvium and patterned hair loss and between the lymphocytic and neutrophilic scarring alopecias.

8:30AM-9:15AM Patient Viewing Biscayne

Several patients/cases will be available for live viewing in a section of Biscayne Ballroom. Come and view the cases during 8:30AM-9:15AM, and then discussion will occur in Versailles Ballroom beginning at 9:15AM.

9:15AM-11:00AM Discussion Versailles

We gratefully acknowledge Canfield Imaging Systems and FotoFinder Systems GmbH for loaning equipment.

10:00AM-11:00AM ANCILLARY MEETING EUROPEAN HAIR RESEARCH SOCIETY (EHRS) GENERAL MEMBERSHIP MEETING**Trianon****11:00AM-11:30AM COFFEE BREAK WITH EXHIBITS & POSTER VIEWING** (coffee, soda, small snacks) *Coffee generously sponsored by Women's Rogaine.***11:30AM-1:00PM IMMUNOBIOLOGY, ALOPECIA AREATA****Versailles**

Maria K. Hordinsky, MD



Amos Gilhar, MD



Ralf Paus, MD



Angela M. Christiano, PhD

DIRECTOR

Maria K. Hordinsky, MD, Professor and Chair, Department of Dermatology,
University of Minnesota, Minneapolis, MN, USA

CO-DIRECTORS

Amos Gilhar, MD, Professor of Dermatology, Rappaport Faculty of Medicine,
Technion-Israel Institute of Technology, Haifa, Israel

Ralf Paus, MD, Professor of Cutaneous Medicine, University of Manchester,
United Kingdom

INVITED SPEAKERS**Targeting Immune Cells in Alopecia Areata**

Angela M. Christiano, PhD, Professor of Dermatology and Genetics &
Development, Columbia University, New York City, NY, USA

NK and NK-like cells in alopecia areata

Amos Gilhar, MD

Putting things into perspective: How close have we really come to understanding the pathobiology of alopecia areata?

Ralf Paus, MD

LEARNING OBJECTIVE

- Outline recent advances in the pathophysiology and treatments of alopecia areata.

11:30AM-11:32AM 2 Moderator Introduction

012 Maria K. Hordinsky, MD | USA

11:32AM-11:44AM 12 Targeting Immune Cells in Alopecia Areata

013 Angela Christiano, PhD | USA

11:45AM-11:57AM 12 NK and NK-like cells in alopecia areata

014 Amos Gilhar, MD | Israel

11:58AM-12:10PM 12 Putting things into perspective: How close have we really come to understanding the pathobiology of alopecia areata

015 Ralf Paus, MD | United Kingdom

12:10PM-12:16PM 6 Q&A**12:16PM-12:28PM 12 Prevention and Treatment of Alopecia Areata with Mesenchymal Stem Cells in the C3H/HeJ Mouse Model**

016 Gwang Seong Choi, MD | Korea

12:29PM-12:41PM 12 Chemokine Receptor CCR5 is the Novel Target for the Treatment of Alopecia Areata

017 Taisuke Ito, MD | Japan

12:42PM-12:54PM 12 Treatment with Simvastatin Decreases pStat1 Levels and Reverses AA in the C3H/HeH Mouse Model

018 Gina M. DelCanto, BA | USA

12:54PM-1:00PM 6 Q&A

1:00PM-2:30PM LUNCH ON OWN OR SATELLITE SYMPOSIUM (ticket required)
 (See Quick Lunch Options Flyer)

1:00PM-2:30PM SATELLITE SYMPOSIUM New Insights and Cosmetic Approaches for Healthy Hair and Scalp (ticket required)

NO-CME
Trianon


John Gray, MD



Vicky Jolliffe, MD



Jennifer Marsh, PhD



Jim Schwartz, PhD

Sponsored and organized by:



Although cosmetic hair and scalp care technologies have been available for decades, recent advances in research continue to push the boundaries. One area of research in particular is giving rise to new technology and treatment possibilities: Oxidation and the effects it has on the properties of the pre- and post-emergent hair. These advances along with practical considerations will be discussed during P&G's Satellite Symposium.

MODERATOR

John Gray, MD, Medical Advisor, Procter & Gamble, Durban, South Africa

SPEAKERS

Vicky Jolliffe, MD, Consultant Dermatologist & Reader in Postgraduate Medical Education, Royal London Hospital, Great Britain

Jennifer Marsh, PhD, P&G Research Fellow, Cincinnati, OH, USA

Jim Schwartz, PhD, P&G Research Fellow, Victor Mills Society

Disclaimer: The Satellite Symposia are informational programs with the topic, program, and speakers selected and organized by the sponsoring company. They are paid opportunities by companies. CME Credit is not issued for the Satellite Symposia. Lunch is provided by the sponsoring company. Pre-registration is required and confirmed on a first-come, first-served basis. Fee: \$0. Ticket is required for entry.

1:00PM-1:10PM 10 Take a seat and begin lunch
1:10PM-1:15PM 5 Welcome, Introductions, and Overview
 Chairman: John Gray, MD

1:15PM-1:30PM 15 Growing Better Hair: Impacting Pre-Emergent Hair via Scalp Condition
 Jim Schwartz, PhD

1:30PM-1:45PM 15 Preserving fiber health: Reducing oxidative stress throughout the life of the hair fiber
 Jennifer Marsh, PhD

1:45PM-1:55PM 10 Clinical Importance of effective cosmetic hair care products
 Vicky Jolliffe, MD

1:55PM-2:10PM 15 Panel Discussion & Audience Q&A
 Vicky Jolliffe, MD; Jim Schwartz, PhD; Jennifer Marsh, PhD; John Gray, MD

CONCURRENT SESSIONS
2:30PM-4:00PM MORPHOGENESIS, NEOGENESIS, AND TISSUE ENGINEERING
Trianon


Sarah E. Millar, PhD



Vladimir Botchkarev, MD, PhD



Marja L. Mikkola, PhD



Cheng-Ming Chuong, MD, PhD



Bruce A. Morgan, PhD

DIRECTOR

Sarah E. Millar, PhD, Professor, Departments of Dermatology and Cell & Developmental Biology and Vice-Chair for Research, Department of Dermatology, University of Pennsylvania, Philadelphia, PA, USA

CO-DIRECTORS

Vladimir Botchkarev, MD, PhD, Professor of Cutaneous Biology, University of Bradford, United Kingdom;
 Adjunct Professor of Dermatology, Boston University, Boston, MA, USA

Marja L. Mikkola, PhD, Team Leader, Developmental Biology Program, Institute of Biotechnology, University of Helsinki, Finland

INVITED SPEAKERS

β-catenin signaling marks self-renewing stem cells in multiple epithelial tissues

Sarah E. Millar, PhD

Regeneration of skin appendages: Physiological and wound induced responses

Cheng-Ming Chuong, MD, PhD, Professor of Pathology, Chair, Graduate Committee, University of Southern California, Los Angeles, CA, USA

Getting it right: Coordinating progenitors and their niche to specify hair size and structure

Bruce A. Morgan, PhD, Associate Professor, Harvard Medical School and Massachusetts General Hospital, Boston, MA, USA

LEARNING OBJECTIVES

- Describe recent developments in research on hair follicle development, regenerative growth, wound-induced neogenesis and tissue engineering.
- Understand the basic mechanisms controlling hair follicle development and growth, be familiar with some of the current research in this area, and appreciate how these discoveries may eventually be applied to treating hair disorders.

2:30PM-2:32PM **2 Moderator Introduction**

019 Sarah E. Millar, PhD | USA

2:32PM-2:52PM **20 β -catenin signaling marks self-renewing stem cells in multiple epithelial tissues**

022 Sarah E. Millar, PhD | USA

2:52PM-2:56PM **4 Q&A**2:56PM-3:16PM **20 Regeneration of skin appendages: Physiological and wound induced responses**

023 Cheng-Ming Chuong, MD, PhD | USA

3:16PM-3:20PM **4 Q&A**3:20PM-3:40PM **20 Getting it right: Coordinating progenitors and their niche to specify hair size and structure**

024 Bruce A. Morgan, PhD | USA

3:40PM-3:44PM **4 Q&A**3:45PM-3:57PM **12 Inducing Hair Follicle Organogenesis with Defined Protein Factors**

025 Sung-Jan Lin, MD, PhD | Taiwan

3:57PM-4:00PM **3 Q&A**2:30PM-4:00PM **CICATRICAL ALOPECIA**

Versailles



Elise A. Olsen, MD



Andrew G. Messenger, MD



Nonhlanhla P. Khumalo, MBChB, PhD

DIRECTOR

Elise A. Olsen, MD, Professor of Dermatology and Medicine; Director, Hair Disorders Research and Treatment Center; Director, Dermatopharmacology Study Center, Duke University Medical Center, Durham, NC, USA

CO-DIRECTOR

Andrew G. Messenger, MD, Professor of Dermatology, University of Sheffield, United Kingdom

INVITED SPEAKERS

Frontal Fibrosing Alopecia: preliminary results of a multicenter study

Elise A. Olsen, MD

Low-hanging Fruit: Identifying Preventable Causes of Scarring Alopecia

Nonhlanhla P. Khumalo, MBChB, FCDerm, PhD, Professor and Head of Division of Dermatology, University of Cape Town, South Africa

LEARNING OBJECTIVES

- Outline the recent advances and research outcomes of treatments for cicatricial alopecia.

2:30PM-2:32PM **2 Moderator Introduction**

026 Elise A. Olsen, MD | USA

2:32PM-2:47PM **15 Frontal Fibrosing Alopecia: preliminary results of a multicenter study**

028 Elise A. Olsen, MD | USA

2:47PM-2:52PM **5 Q&A**2:52PM-3:07PM **15 Low-hanging fruit: Identifying Preventable Causes of Scarring Alopecia**

029 Nonhlanhla P. Khumalo, MBChB, PhD | South Africa

3:07PM-3:12PM **5 Q&A**3:12PM-3:24PM **12 Comparison of Four Regimens for the Treatment of Central Centrifugal Cicatricial Alopecia**

030 Nikki Tang, MD | USA

3:25PM-3:37PM **12 Absence of Catagen/telogen Phase and Loss of Cytokeratin 15 Expression in Hair Follicles in Lichen Planopilaris**

031 Curtis T. Thompson, MD | USA

3:38PM-3:50PM **12 Frontal Fibrosing Alopecia: Epidemiologic Data From a Patient Registry**

032 Varvara Kanti, MD | Germany

3:50PM-4:00PM **10 Q&A**4:00PM-4:30PM **COFFEE BREAK WITH EXHIBITS & POSTER VIEWING** (coffee and soda only)

4:30PM-6:00PM **AUXILIARY CELLS**

Versailles



Valerie Horsley, PhD



Mirna Perez-Moreno, PhD



Mayumi Ito, PhD

DIRECTOR

Valerie Horsley, PhD, Associate Professor of Molecular, Cellular & Developmental Biology, Yale University, New Haven, CT USA

INVITED SPEAKERS**Links between macrophages and the activation of the skin stem cell niche**

Mirna Perez-Moreno, PhD, Group Leader, Epithelial Cell Biology Group, Cancer Cell Biology Program, Spanish National Cancer Research Center, Madrid, Spain

Melanocyte stem cells in the hair follicle

Mayumi Ito, PhD, Associate Professor, Department of Dermatology, Department of Cell Biology, New York University School of Medicine, New York, NY, USA

Regulation of dermal adipocytes

Valerie Horsley, PhD

LEARNING OBJECTIVES

- Discuss the role of auxiliary cells in the regulation of hair follicle biology.

4:30PM-4:32PM	2 Moderator Introduction
033	Valerie Horsley, PhD USA
4:32PM-4:52PM	20 Links between macrophages and the activation of the skin stem cell niche
034	Mirna Perez-Moreno, PhD Spain
4:53PM-5:13PM	20 Melanocyte stem cells in the hair follicle
035	Mayumi Ito, PhD USA
5:14PM-5:34PM	20 Regulation of dermal adipocytes
036	Valerie Horsley, PhD USA
5:34PM-5:44PM	10 Q&A
5:45PM-5:57PM	12 Are Eccrine Glands Part Of The Pilosebaceous Unit?
037	Francisco Jimenez, MD Spain
5:57PM-6:00PM	3 Q&A

6:15PM-7:00PM **GREAT CASES FROM SOUTH AMERICA**

Versailles



Ricardo Romiti, MD, PhD



Maria E. Cappetta, MD



Isabella Doche, MD

DIRECTOR

Ricardo Romiti, MD, PhD, Director, Hair and Scalp Disorders Clinic, University of São Paulo, Brazil

CO-DIRECTORS

María E. Cappetta, MD, Medical Doctor Specialist in Dermatology, Hair Clinic at CEMIC (Centro de Educación Médica e Investigaciones Clínicas-Fundación Norberto Quirno) and Buenos Aires Skin, Buenos Aires, Argentina

Isabella Doche, MD, Dermatologist and PhD student, University of São Paulo, Brazil; Research Fellow, University of Minnesota, MN, USA

LEARNING OBJECTIVES

- Review a variety of case presentations on hair research and clinical hair disorders from South America.

6:15PM-6:16PM	1 Moderator Introduction
038	Ricardo Romiti, MD, PhD Brazil

CLINICAL CASES PART I: Ricardo Romiti, MD, PhD & Eugenia Cappetta, MD

6:16PM-6:20PM	4 Pseudo-fringe sign in frontal fibrosing alopecia
041	Rodrigo Pirmez, MD Brazil
6:20PM-6:24PM	4 Breast cancer metastasis mimicking cicatricial alopecia
042	Mariana Martin, MD Argentina
6:24PM-6:28PM	4 Vitiligo-like patches: a further hallmark of frontal fibrosing alopecia?
043	Alessandra Anzai, MD Brazil
6:28PM-6:32PM	4 Folliculitis decalvans following hair transplant in surgical scar sites
044	Néstor Carreño, MD Chile
6:32PM-6:36PM	4 Histologic examination of "normal-appearing" scalp in lichen planopilaris and frontal fibrosing alopecia
045	Isabella Doche, MD Brazil

6:36PM-6:40PM 4 Q&A**CLINICAL CASES PART II: Ricardo Romiti, MD, PhD & Isabella Doche, MD**

6:40PM-6:44PM	4 Fibrosing alopecia in a pattern distribution: an unreported diagnosis in Chilean patients
046	Felipe Mardones, MD Chile
6:44PM-6:48PM	4 Trichoscopy pitfalls
047	Aline Donati, MD Brazil
6:48PM-6:52PM	4 Alopecia areata in solid organ transplant patients
048	Cecilia Navarro Tuculet, MD Argentina
6:52PM-6:56PM	4 TrichoQuiz
049	Ricardo Romiti, MD, PhD Brazil
6:56PM-7:00PM	4 Q&A

FRIDAY | November 20, 2015

7:00AM-6:00PM **SPEAKER READY ROOM** Oxford7:00AM-6:15PM **REGISTRATION** Mezzanine7:30AM-5:30PM **EXHIBIT VIEWING** Mezzanine7:30AM-5:30PM **POSTER VIEWING** Biscayne & Chopin7:30AM-8:45AM **FORMAL POSTER SESSION: ODD NUMBERS**7:30AM-9:30AM **EXHIBITS & POSTER VIEWING WITH COFFEE AVAILABLE**

Coffee generously sponsored by Women's Rogaine.

7:30AM-9:00AM **SATELLITE SYMPOSIUM** Quality of Life Considerations and Treatment Opportunities in Female Pattern Hair Loss(ticket required) **NO-CME** Trianon

Richard G. Fried, MD, PhD



Ulrike Blume-Peytavi, MD



Amy McMichael, MD

During the symposium, the speakers will share the latest clinical research findings of the treatment of FPHL using 5% Minoxidil foam, translating clinical outcomes into improvement in quality of life. The emotional and counseling aspects of FPHL will be discussed focusing on change in the conversation between healthcare professionals and patients.

MODERATOR

Richard G. Fried, MD, PhD, Clinical Psychologist and Board Certified Dermatologist, Yardley Dermatology Associates, Yardley, PA, USA

SPEAKERS

Richard G. Fried, MD, PhD

Ulrike Blume-Peytavi, MD, University Professor, Executive Medical Director Department of Dermatology and Allergy, Director Clinical Research Center for Hair and Skin Science, Charité-Universitätsmedizin Berlin

Amy McMichael, MD, Professor and Chair, Department of Dermatology, Wake Forest Baptist Health, Winston-Salem, NC, USA

LEARNING OBJECTIVES

- Discover the latest clinical findings on the treatment of Female Pattern Hair Loss using a novel, marketed 5% Minoxidil foam.
- Learn the psychological impact of FPHL and the need for patient behavioral counselling and emotional support.

Sponsored and organized by:

WOMEN'S
Rogaine®

7:30AM-7:40AM **10 Breakfast Buffet/Settle-in**

7:40AM-7:45AM **5 Welcome, Introductions, and Overview**
Richard G. Fried, MD, PhD

7:45AM-8:05AM **20 Minoxidil 5% foam once daily in women – clinical evidence**
Ulrike Blume-Peytavi, MD

8:05AM-8:25AM **20 FPHL in the African American patient: Hints for diagnosis and treatment**
Amy McMichael, MD

8:25AM-8:45AM **20 Psychological and Functional Impact of FPHL: Empowerment and Efficacy Strategies for Successful management.**
Richard G. Fried, MD, PhD

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9:30AM-11:00AM **HORMONES, HAIR GROWTH AND PATTERN HAIR LOSS**

Versailles



Wilma F. Bergfeld, MD



Rodney Sinclair, MBBS, MD



Ulrike Blume-Peytavi, MD



Valerie A. Randall, PhD

DIRECTOR

Wilma F. Bergfeld, MD, Professor of Pathology, and Dermatology, Cleveland Clinic, Cleveland, OH, USA

CO-DIRECTORS

Rodney Sinclair, MBBS, MD, Professor of Dermatology, University of Melbourne, Australia

Ulrike Blume-Peytavi, MD, University Professor, Executive Medical Director Department of Dermatology and Allergy, Director Clinical Research Center for Hair and Skin Science, Charité-Universitätsmedizin Berlin

INVITED SPEAKERS

Translational approach to androgenetic alopecia – clinical and molecular read-outs

Ulrike Blume-Peytavi, MD

Regulation of human hair growth: androgens and prostanoids

Valerie A. Randall, PhD, Professor of Biomedical Sciences, Centre for Skin Sciences, School of Life Sciences, University of Bradford, Bradford, United Kingdom

LEARNING OBJECTIVES

- Outline the recent advances and research outcomes of treatments for pattern hair loss.

9:30AM-9:32AM **2 Moderator Introduction**
050 Wilma F. Bergfeld, MD | USA

9:32AM-9:52AM **20 Translational approach to androgenetic alopecia – clinical and molecular read-outs**
052 Ulrike Blume-Peytavi, MD | Germany

9:52AM-10:12AM **20 Regulation of human hair growth: androgens and prostanoids**
053 Valerie A. Randall, PhD | United Kingdom

10:12AM-10:15AM **3 Q&A**

10:15AM-10:27AM **12 The Role of Inflammation and Immunity in the Pathogenesis of Female-Pattern Hair Loss**
054 Neil Sadick, MD | USA

10:27AM-10:30AM **3 Q&A**

10:30AM-10:42AM **12 CRTH2/ PTGDR2 Antagonists Reverse the Hair Growth Inhibition Caused by Elevated PGD2 Level**
055 Ying Zheng, PhD | USA

10:42AM-10:45AM **3 Q&A**

10:45AM-10:57AM **12 TBA**
056

10:57AM-11:00AM **3 Q&A**

11:00AM-11:30AM COFFEE BREAK WITH EXHIBITS & POSTER VIEWING (coffee, soda, small snacks) *Coffee generously sponsored by Samumed.*

11:30AM-1:00PM **STEM CELLS AND STEM CELL NICHES**

Versailles



George Cotsarelis, MD



Colin Jahoda, PhD



Manabu Ohyama, MD, PhD



Tudorita Tumbur, PhD



Pantelis Rombolas, PhD

DIRECTOR

George Cotsarelis, MD, Professor and Chair, Department of Dermatology, University of Pennsylvania, Philadelphia, PA, USA

CO-DIRECTORS

Colin A. B. Jahoda, PhD, Professor, School of Biological and Biomedical Sciences, Durham University, United Kingdom

Manabu Ohyama, MD, PhD, Professor, Department of Dermatology, Kyorin University School of Medicine, Tokyo, Japan

INVITED SPEAKERS**Molecular Control of Hair Follicle Stem and Progenitor Cells**

Tudorita (Doina) Tumbur, PhD,

Associate Professor, Department of Molecular Biology and Genetics, Cornell University, Ithaca, NY, USA

Mechanisms of hair follicle stem cell fate by live imaging

Pantelis Rombolas, PhD, Assistant Professor, Department of Dermatology, University of Pennsylvania, Philadelphia, PA, USA

LEARNING OBJECTIVES

- Describe some of the latest developments in research on hair follicle stem cells and stem cell niches.

11:30AM-11:31AM	1	Moderator Introduction
057		George Cotsarelis, MD USA
11:31AM-11:51AM	20	Molecular Control of Hair Follicle Stem and Progenitor Cells
060		Tudorita Tumbur, PhD USA
11:51AM-12:11PM	20	Mechanisms of hair follicle stem cell fate by live imaging
061		Pantelis Rombolas, PhD USA
12:11PM-12:15PM	4	Q&A
12:15PM-12:27PM	12	Human Long Term Deregulated Circadian Rhythm in Vvo Alters the Clonogenic Properties of Outer Root Sheath Cells
062		Nathalie Deshayes, MSc France
12:27PM-12:30PM	3	Q&A
12:30PM-12:42PM	12	An Integrated Transcriptome Atlas of Embryonic Hair Follicle Progenitors, their Niche and the Developing Skin
063		Michael Rendl, MD USA
12:42PM-12:45PM	3	Q&A
12:45PM-12:57PM	12	Two Distinct Spontaneous Regenerative Activities to Repair Ionizing Radiation-induced Dystrophy in Anagen Follicles
064		Sung-Jan Lin, MD, PhD Taiwan
12:57PM-1:00PM	3	Q&A

1:00PM-2:30PM LUNCH ON OWN OR SATELLITE SYMPOSIUM (ticket required)
(See Quick Lunch Options Flyer)

1:00PM-2:30PM SATELLITE SYMPOSIUM New Clinical Evidence and the Role of Nutraceuticals for the Treatment of Thinning Hair

(ticket required) **NO-CME** **Trianon**



Desmond J. Tobin, PhD



Glynis Ablon, MD



Mark Holland

Clinical studies have demonstrated the ability of a nutraceutical supplement containing a proprietary blend of shark and mollusk powder derived from sustainable marine sources, to provide essential nutrients to aid in hair growth. The effectiveness of this product for the treatment of hair loss and thinning hair was the subject of a recent panel discussion by experts in dermatology and plastic surgery involving Dr. Heidi Waldorf, Dr. Vivian Bucay, Dr. Wendy Roberts and Dr. Steven Dayan.

LEARNING OBJECTIVES

- Understand the clinical evidence available surrounding nutraceuticals and their application for the treatment of thinning hair and hair growth.
- Identify other treatment options available and use of a multi-therapy approach.
- Discover the latest clinical evidence and the 25 year history of Viviscal dietary supplements and their application in modern medicine.
- Get a first look at the Viviscal cell modelling exploration work to help uncover Viviscal's mechanism of action.

MODERATOR

Desmond J. Tobin, PhD, Professor of Cell Biology, Centre for Skin Sciences (Director), School of Life Sciences, University of Bradford, Bradford, West Yorkshire, United Kingdom

Disclaimer: The Satellite Symposia are informational programs with the topic, program, and speakers selected and organized by the sponsoring company. They are paid opportunities by companies. CME Credit is not issued for the Satellite Symposia. Lunch is provided by the sponsoring company. Pre-registration is required and confirmed on a first-come, first-served basis. Fee: \$0. Ticket is required for entry.

Sponsored and organized by:

Viviscal®

SPEAKERS

Desmond J. Tobin, PhD, University of Bradford, Bradford, West Yorkshire, United Kingdom

Glynis Ablon, MD, Assistant Clinical Professor, UCLA; Ablon Skin Institute, Los Angeles, CA USA

Mark Holland, CEO N America, Lifes2good, Chicago, IL USA

Helena McMahon, PhD

1:00PM-1:25PM **25** **Settle-in, begin lunch**

1:25PM-1:30PM **5** **Welcome, Introductions, and Overview**
Mark Holland

1:30PM-1:40PM **10** **The role of nutraceuticals in the current ecosystem of hair growth treatments**
Desmond J. Tobin, PhD

1:40PM-1:50PM **10** **Viviscal Clinical Trials**
Glynis Ablon, MD

1:50PM-2:00PM **10** **Viviscal cell model studies**
Helena McMahon PhD

2:00PM-2:10PM **10** **Panel Discussion & Q&A**

2:10PM **Concluding Remarks**

2:30PM-4:00PM EMERGING TECHNOLOGIES AND THERAPIES

Versailles



Ken Washenik, MD, PhD



Takashi Tsuji, PhD



Annika Vogt, MD

DIRECTOR

Ken Washenik, MD, PhD, Faculty, Department of Dermatology, New York University School of Medicine, New York, NY, USA; Bosley Medical Group, Beverly Hills, CA, USA

CO-DIRECTORS

Takashi Tsuji, PhD, Team Leader, Laboratory for Organ Regeneration, RIKEN Center for Developmental Biology, Chuou-ku, Kobe, Japan

Annika Vogt, MD, Associate Professor, University Pierre et Marie Curie (UPMC), Paris, France; Scientific Director of Experimental & Translational Research, Clinical Research Center for Hair and Skin Science, Department of Dermatology, Charité-University Medicine, Berlin, Germany

INVITED SPEAKERS

Hair Regeneration as a Future Organ Replacement Regenerative Therapy

Takashi Tsuji, PhD

Differences between affected and clinically non-affected scalp in male individuals with male pattern androgenetic alopecia: Linking of clinical and molecular biological findings

Annika Vogt, MD

LEARNING OBJECTIVES

- Discuss various emerging technologies and therapies as they relate to hair loss and hair growth.

2:30PM-2:32PM	2 Moderator Introduction	3:26PM-3:29PM	3 Q&A
065	Ken Washenik, MD, PhD USA	3:29PM-3:41PM	12 Minoxidil Response Testing in Females with Androgenetic Alopecia: A 24 Week Multi-Center Prospective Study
2:32PM-2:52PM	20 Hair Regeneration as a Future Organ Replacement Regenerative Therapy	069	Andy Goren, MD USA
066	Takashi Tsuji, PhD Japan	3:41PM-3:44PM	3 Q&A
2:53PM-3:13PM	20 Differences between affected and clinically non-affected scalp in male individuals with male pattern androgenetic alopecia: Linking of clinical and molecular biological findings	3:45PM-3:57PM	12 The Microfollicle: In Vitro Modelling the Hair Follicle for High-throughput Screening
067	Annika Vogt, MD France/Germany	070	Beren Atac, PhD Germany
3:14PM-3:26PM	12 Various wavelengths of light-emitting diode light regulate the proliferation of human dermal papilla cells and growth of hair follicles via Wnt/β-catenin and the ERK pathways	3:57PM-4:00PM	3 Q&A
068	Hong Jin Joo, MD Korea		
4:00PM-4:30PM COFFEE BREAK WITH EXHIBITS & POSTER VIEWING (coffee and soda only) <i>Coffee generously sponsored by P&G.</i>			

CONCURRENT SESSIONS

4:30PM-6:00PM STRUCTURE, BIOLOGY & HAIR CURL, COLOR & LUSTER

Trianon



Thomas L. Dawson, Jr., PhD



Jolon Dyer, PhD



Amy McMichael, MD



John Lemasters, MD, PhD

DIRECTOR

Thomas L. Dawson, Jr., PhD, Senior Principal Investigator, Institute of Medical Biology, Agency for Science, Technology, and Research (A*STAR), Singapore

CO-DIRECTORS

Jolon Dyer, PhD, Science Group Leader, Food & Bio-Based Products, AgResearch, New Zealand

Amy McMichael, MD, Professor and Chair, Department of Dermatology, Wake Forest Baptist Health, Winston-Salem, NC, USA

INVITED SPEAKERS

Hair fiber structure and performance: mapping the cross-link network

Jolon Dyer, PhD

Compartmentation of Mitochondrial and Oxidative Metabolism in Hair Follicles: A Ring of Fire

John J. Lemasters, MD, PhD, Professor, Departments of Drug Discovery & Biomedical Sciences and Biochemistry & Molecular Biology; Director, Center for Cell Death, Injury & Regeneration, Medical University of South Carolina, Charleston, SC, USA

LEARNING OBJECTIVES

- Outline current research in the structure and biology of the hair shaft, including hair curl, color, and luster.

4:30PM-4:32PM	2 Moderator Introduction
071	Thomas L. Dawson, Jr., PhD Singapore
4:32PM-4:52PM	20 Fiber Structure and Performance: Mapping the Crosslink Network
073	Jolon M. Dyer, PhD New Zealand
4:54PM-5:14PM	20 Compartmentation of Mitochondrial and Oxidative Metabolism in Hair Follicles: A Ring of Fire
074	John J. Lemasters, MD, PhD USA
5:15PM-5:27PM	12 Relating the Biomechanical Properties of the Human Hair Follicle to its Microstructure
075	Lucien Bildstein, PhD France
5:27PM-5:30PM	3 Q&A
5:30PM-5:42PM	12 Optical Properties of the Medulla and the Cortex of Human Beard and Scalp Hair
076	Babu Varghese, PhD The Netherlands
5:42PM-5:45PM	3 Q&A
5:45PM-5:57PM	12 Monitoring Changes in Hair Structure During Childhood
077	Maria L. Bovcon, BSc, MSc Argentina
5:57PM-6:00PM	3 Q&A

4:30PM-6:00PM NEW TOPICS SELECTED FROM ABSTRACTS: PART I

Versailles



Victoria H. Barbosa, MD, MBA, MPH



Woo-Young Sim, MD



Gillian E. Westgate, PhD

DIRECTOR

Victoria H. Barbosa, MD, MBA, MPH, Faculty, Department of Dermatology, Rush University

CO-DIRECTORS

Woo-Young Sim, MD, Professor and Chair, Department of Dermatology, Kyung Hee University, Seoul, Korea

Gillian E. Westgate, PhD, Business Development Manager, Centre for Skin Sciences, University of Bradford, United Kingdom; Director, Westgate Consultancy Ltd., United Kingdom

LEARNING OBJECTIVES

- Review a variety of case presentations on hair research and clinical hair disorders.

4:30PM-4:30PM 0 Moderator Introduction

078 Victoria H. Barbosa, MD, MBA, MPH | USA

4:30PM-4:38PM 8 Treatment of Moderate to Severe Alopecia Areata with the Janus Kinase Inhibitor, Tofacitinib: The Cleveland Clinic Experience

081 Omer Ibrahim, MD | USA

4:38PM-4:40PM 2 Q&A

4:40PM-4:48PM 8 Two-Center Open-Label Trial of Oral Tofacitinib in Patients with Severe, Recalcitrant Alopecia Areata

082 Milene Crispin, MD | USA

4:48PM-4:50PM 2 Q&A

5:30PM-8:30PM EXHIBITS DISMANTLE

5:30PM-8:30PM POSTERS DISMANTLE

4:50PM-4:58PM 8 Sequential Cyclic Change of Hair Roots of Dystrophic Anagen Followed by Catogen and Telogen in The Mechanism of Alopecia Areata Incognita Revealed by Dermoscopy

083 Xingqi Zhang, MD, PhD | China

4:58PM-5:00PM 2 Q&A

5:00PM-5:08PM 8 P-3074, a New HPCH Topical Formulation for the Treatment of Androgenetic Alopecia in Male Subjects

084 Francesco Scarci | Switzerland

5:08PM-5:10PM 2 Q&A

5:10PM-5:18PM 8 A Novel Ingredient for Improved Hair Surface

085 Eric Spengler, MAS | USA

5:18PM-5:20PM 2 Q&A

5:20PM-5:28PM 8 A Novel Treatment Principle in Anti-hirsutism Management: An Osteopontin-derived Peptide Potently Inhibits Human Hair Growth in Vitro and in Vivo

086 Marta Bertolini, PhD | Germany

5:28PM-5:30PM 2 Q&A

5:30PM-5:38PM 8 Alopecia Areata Bulbs Show Significant Transcriptional Abnormalities Before, During and After Active Hair Loss

087 Jane Li, MBBS | Australia

5:38PM-5:40PM 2 Q&A

5:40PM-5:48PM 8 α 1-AR Agonist Induced Piloerection Protects Against the Development of Traction Alopecia

088 Andy Goren, MD | USA

5:48PM-5:50PM 2 Q&A

5:50PM-5:58PM 8 Pharmacologic Inhibition of JAK-STAT signaling Promotes Hair Growth

089 Etienne Wang, MBBS, MA | USA

5:58PM-6:00PM 2 Q&A

7:00PM-10:30PM CONGRESS DINNER (ticket required)

TROPICAL CUBAN Congress Dinner

STOP BY THE MOJITO BAR

to experience some great variations on this popular traditional Cuban cocktail:

Traditional Mojito,
Sangre Mojito (Blood Orange),
Spicy Gingersnap Mojito.

DATE: Friday | NOVEMBER 20, 2015

TIME: 7:00PM-10:30PM

FEE: \$150 per ticket

LOCATION: Pool Terrace, InterContinental Hotel Miami

Come enjoy a fun-filled evening of socializing with your colleagues and friends, old and new.

Join us on the pool terrace for a tropical evening of Cuban inspired dining, music and dancing! The attire for the evening is cocktail or business. As the theme is tropical/Cuban, you may want to dress for the theme.

Tickets are required for entry and must be purchased in advance (see registration form). Tickets are not included in the main meeting registration fee. PLEASE NOTE: Tickets to the Congress Dinner are non-refundable due to the guaranteed reservation that must be made on behalf of the attendee.

SATURDAY | November 21, 2015

6:45AM-3:15PM REGISTRATION Mezzanine

7:00AM-2:30PM SPEAKER READY ROOM Oxford

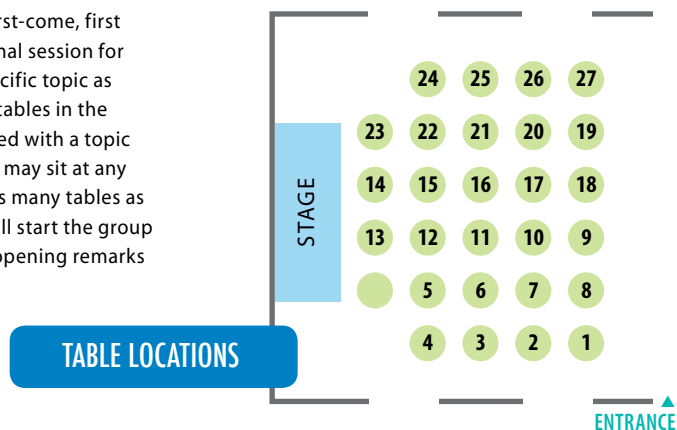
7:00AM-8:00AM ANCILLARY MEETING Sandringham
Australasian Hair & Wool Research Society
(AHWRS) General Membership Meeting

7:30AM-9:00AM CONTINENTAL BREAKFAST Versailles

8:00AM-9:00AM COFFEE WITH THE EXPERTS

Versailles

Open to all attendees on a first-come, first served basis. This is an informal session for small groups to discuss a specific topic as noted on the list. The round tables in the General Session will be labeled with a topic and table leader's name. You may sit at any table you like and rotate to as many tables as you wish. The table leader will start the group with a mini-presentation or opening remarks about the topic.

**01 Alopecia Areata**

090 Maria K. Hordinsky, MD | USA
091 Melissa Piliang, MD | USA

02 Cicatricial Alopecia

092 Leonard Sperling, MD | USA
093 Ralf Paus, MD | United Kingdom

03 Central Centrifugal Cicatricial Alopecia

094 Valerie Callender, MD | USA
095 Nonhlanhla P. Kumalo, MBChB, PhD | South Africa

04 Frontal Fibrosing Alopecia

096 Elise A. Olsen, MD | USA
097 Janet Roberts, MD | USA

05 Medical Therapy for Androgenetic Alopecia

098 Ulrike Blume-Peytavi, MD | Germany
099 Ken Washenik, MD, PhD | USA

06 Low Level Laser Therapy

100 R. Rox Anderson, MD | USA
101 Joaquin Jimenez, MD | USA

07 Camouflaging Techniques

102 Nilofer P. Farjo, MBChB | United Kingdom
103 Alex Ginzburg, MD | Israel

08 Nutraceuticals

104 Wilma F. Bergfeld, MD | USA
105 Natasha Mesinkovska, MD, PhD | USA

09 Hair Pathology

106 Lynne J. Goldberg, MD | USA

10 Trichoscopy

107 Fernanda Torres, MD | Brazil

11 Trichograms

108 Hugh Rushton, PhD, DSc | United Kingdom

12 Instruments You Need

109 Bernard Cohen, MD | USA

13 Hair Transplantation

110 Bessam Farjo, MBChB | United Kingdom
111 Sharon A. Keene, MD | USA

14 Robotic Hair Transplantation

112 Chang-Hun Huh, MD, PhD | Korea
113 Paul T. Rose, MD, JD | USA

15 Stem Cells

114 George Cotsarelis, MD | USA
115 Valerie A. Randall, PhD | United Kingdom

16 Follicular Neogenesis

116 Colin Jahoda, PhD | United Kingdom
117 Jerry Shapiro, MD | USA

17 Genetic Testing

118 Angela M. Christiano, PhD | USA

18 Hair Diversity

119 John Gray, MD | South Africa
120 Gillian E. Westgate, PhD | United Kingdom

19 African American Hair & Scalp Considerations

121 Yolanda Lenzy, MD, MPH | USA
122 Amy McMichael, MD | USA

20 New Drugs and Hair

123 Gabriella Fabbrocini, MD | Italy

21 Hair Loss in Women

124 Paul Farrant, BSc, MBBS | United Kingdom
125 Paradi Mirmirani, MD | USA

22 Hair Care

126 Maria Fernanda Gavazzoni, MD, PhD | Brazil

23 Hair Dyes

127 Jennifer Marsh, PhD | USA

24 Hair Pigmentation

128 Bruno A. Bernard, Dr.es Sci. | France
129 Desmond J. Tobin, PhD | United Kingdom

25 Hair Shaft Disorders

130 David Whiting, MD | USA

26 Hair Diseases in Children

131 Andrew G. Messenger, MD | United Kingdom

27 Infections/Infestations

132 Daniel Asz Sigall, MD | Mexico

9:30AM-11:00AM **GENETICS, GENOMICS, AND PERSONALIZED MEDICINE/BIOMARKERS**

Versailles



Angela M. Christiano, PhD



Regina C. Betz, MD



Abraham Zlotogorski, MD

DIRECTOR

Angela M. Christiano, PhD, Professor of Dermatology and Genetics & Development, Columbia University

CO-DIRECTORS

Regina C. Betz, MD, Prof. Dr. med., Institute of Human Genetics, University of Bonn, Bonn, Germany

Abraham Zlotogorski, MD, Professor and Chair, Department of Dermatology, Hadassah-Hebrew University Medical Center, Jerusalem, Israel

INVITED SPEAKERS

Latest findings in the field of monogenic hair disorders

Regina C. Betz, MD

Mapping of hair disorders—Not everything is gold

Abraham Zlotogorski, MD

LEARNING OBJECTIVES

- Discuss the current research in genetics, genomics and personalized medicine/biomarkers as they relate to the hair follicle and hair disorders.

9:30AM-9:32AM	2 Moderator Introduction
133	Angela M. Christiano, PhD USA
9:32AM-9:52AM	20 Latest findings in the field of monogenic hair disorders
136	Regina C. Betz, MD Germany
9:54AM-10:14AM	20 Mapping of hair disorders – Not everything is gold
137	Abraham Zlotogorski, MD Israel
10:15AM-10:27AM	12 Keratoderma and Woolly Hair Caused by Mutation in KANK2, a Novel Player in the Regulation of Hair Structure
138	Yuval Ramot, MD Israel
10:27AM-10:30AM	3 Q&A
10:30AM-10:42AM	12 The Development of a Genetic Approach to Suppress an Inheritable Structure Defect of the Hair
139	Jiang Chen, MD USA
10:42AM-10:45AM	3 Q&A
10:45AM-10:57AM	12 Global MicroRNA Profiling Suggests Their Role in the Control of Human Hair Follicle Ageing
140	Natalia Botchkareva, MD, PhD United Kingdom
10:57AM-11:00AM	3 Q&A

11:00AM-11:30AM **COFFEE BREAK** (coffee only)

Versailles

11:30AM-1:00PM **CLINICAL TRIALS**

Versailles



Jerry Shapiro, MD



Valerie D. Callender, MD



Rolf Hoffmann, MD



Won-Soo Lee, MD, PhD

DIRECTOR

Jerry Shapiro, MD, Professor, The Ronald O. Perleman Department of Dermatology, New York University School of Medicine, New York City, NY, USA

CO-DIRECTOR

Valerie D. Callender, MD, Associate Professor of Dermatology, Howard University College of Medicine, Washington, DC, USA

INVITED SPEAKERS

Treating Alopecia and Beyond: How the hair follicle may be an ideal resource for cell-based therapeutics

Rolf Hoffmann, MD, Professor, Replicel Life Sciences Inc., Vancouver, BC, Canada

Alopecia Areata: Clinicotherapeutic Trials and Updates

Won-Soo Lee, MD, PhD, Professor and Chairman, Department of Dermatology, Yonsei University, Wonju College of Medicine, Republic of Korea

LEARNING OBJECTIVES

- Outline the current clinical trials in hair disorders

11:30AM-11:32AM **2 Moderator Introduction**

141 Jerry Shapiro, MD | USA

11:32AM-11:52AM **20 Treating Alopecia and Beyond: How the hair follicle may be an ideal resource for cell-based therapeutics**

143 Rolf Hoffmann, MD | Canada

11:54AM-12:14PM **20 Alopecia Areata: Clinicotherapeutic Trials and Updates**

144 Won-Soo Lee, MD, PhD | Korea

12:15PM-12:27PM **12 Safety and Efficacy of a Topical Treatment (SM04554) for Androgenetic Alopecia (AGA): Results from a Phase 1 Trial**

145 Yusuf Yazici, MD | USA

12:27PM-12:30PM **3 Q&A**12:30PM-12:42PM **12 Induction of Hair Growth in Subjects with Male Pattern Baldness by Hypoxia Induced Multipotent Stem Cell-Secreted Proteins**

146 Gail Naughton, PhD | USA

12:42PM-12:45PM **3 Q&A**12:45PM-12:57PM **12 Female Pattern Hair Loss: Combination Therapy With Low Dose Oral Minoxidil and Spironolactone**

147 Rodney D. Sinclair, MBBS, MD, FACD | Australia

12:57PM-1:00PM **3 Q&A**1:00PM-1:30PM **COFFEE** (coffee and snacks)

Versailles

CONCURRENT SESSIONS

1:00PM-2:30PM NEW TOPICS SELECTED FROM ABSTRACTS: PART II

Versailles



Lloyd E. King, MD, PhD



Sundaram Murugusundram, MD



Ryoji Tsuboi, MD, PhD

DIRECTOR

Lloyd E. King, MD, PhD, Professor of Medicine (Dermatology), Vanderbilt University Medical Center, Founder, Vanderbilt Dermatology Division & Residency, Nashville, TN, USA

CO-DIRECTOR

Sundaram Murugusundram, MD, Founder & Medical Director, Chennai Skin Foundation & Yesudian Research Institute, Chennai, India

Ryoji Tsuboi, MD, PhD, Professor and Chairman, Department of Dermatology, Tokyo Medical University, Tokyo, Japan

LEARNING OBJECTIVES

- Review a variety of case presentations on hair research and clinical hair disorders.

1:00PM-1:00PM 0 Moderator Introduction

148 Lloyd E. King, MD, PhD | USA

1:00PM-1:08PM 8 A Stable Polyamine Analogue, N1-methylspermidine, Prolongs Anagen and Regulates Human Hair Follicle Stem Cells via Anti-oxidative, Anti-inflammatory and Peripheral Clock-related Mechanisms

151 Yuval Ramot, MD | Israel

1:08PM-1:10PM 2 Q&A

1:10PM-1:18PM 8 A Multi-scale Model for Hair Follicle Reveals Phase Separation Mechanism Drives Rapid Hair Growth Patterning

152 Ji Won Oh, MD, PhD | USA

1:18PM-1:20PM 2 Q&A

1:20PM-1:28PM 8 Hair Follicle Mesenchyme Cells Exhibit Immune Privilege and Can Improve Islet Allograft Survival

153 Kevin McElwee, PhD | Canada

1:28PM-1:30PM 2 Q&A

1:30PM-1:38PM 8 DNA Methylation Profile of Monozygotic and Dizygotic Twins Discordant for Alopecia Areata

154 Eddy Hsi Chun Wang, PhD | USA

1:38PM-1:40PM 2 Q&A

1:40PM-1:48PM 8 Shh Signaling Regulates the Damage Response of Murine and Human Hair Follicles in Chemotherapy-induced Alopecia

155 Iain Haslam, PhD | United Kingdom

1:48PM-1:50PM 2 Q&A

1:50PM-1:58PM 8 Evidence for Alopecia Areata and Celiac Disease Cross-reactive Epitopes Expressed by Anagen Hair Follicle Inner Root Sheath - Implications for Alopecia Areata Autoantigen(s) Discovery

156 Desmond J. Tobin, PhD | United Kingdom

1:58PM-2:00PM 2 Q&A

2:00PM-2:08PM 8 Variations and Similarities of Hair Follicles and Papillae from Vertex and Occipital Regions in Subjects with Androgenetic Alopecia and Healthy Controls

157 Paul L. Bigliardi, A/Prof | Singapore

2:08PM-2:10PM 2 Q&A

2:10PM-2:18PM 8 BMP Signalling and Sox2 in the Dermal Papilla Regulates the Hair Follicle Stem Cell Niche

158 Carlos Clavel, PhD | Singapore

2:18PM-2:20PM 2 Q&A

2:20PM-2:28PM 8 Using Signaling Pathway Activation Analysis to Identify Prospective Drugs that May Be Used for Treatment of Androgenetic Alopecia

159 Evgeniya Schastnaya | USA

2:28PM-2:30PM 2 Q&A

1:00PM-2:30PM ANCILLARY MEETING The Korean Hair Research Society (KHRS) General Membership Meeting

Sandringham

2:30PM-3:00PM CLOSING CEREMONY AND AWARDS

Versailles

2:30PM-2:45PM 15 Presentation of Poster & Oral Awards, and NAHRS Travel Grants

Angela Christiano, PhD

2:45PM-2:50PM 10 Presentation of Congress Planning Committee Certificates

Wilma F. Bergfeld, MD & Ken Washenik, MD, PhD

2:50PM-2:55PM 5 Announcement of 2017 WCHR – Japan

Ryoji Tsuboi, MD, PhD

2:55PM-3:00PM 5 Final Remarks

Maria K. Hordinsky, MD

3:00PM ADJOURN

Scientific Posters

The scientific poster presentations will be on display in the Chopin and Biscayne Ballrooms on the Mezzanine Level. All accepted abstracts are required to prepare a poster. Poster display area for each poster is 4 ft x 4 ft (1.2m x 1.2m). No CME credit will be issued for poster viewing or poster sessions.

P001-P164 Chopin
P165-P248 Biscayne

Biscayne & Chopin

POSTER PRESENTERS HANG THEIR POSTERS

Wednesday
NOVEMBER 18, 2015 1:00PM-4:30PM

POSTER VIEWING HOURS

Wednesday
NOVEMBER 18, 2015 4:30PM-8:00PM

Thursday
NOVEMBER 19, 2015 7:30AM-9:00PM

Friday
NOVEMBER 20, 2015 7:30AM-5:30PM

FORMAL POSTER SESSIONS

Thursday
NOVEMBER 19, 2015 7:30AM-8:45AM *even numbers*

Friday
NOVEMBER 20, 2015 7:30AM-8:45AM *odd numbers*

POSTER DISMANTLE

Friday
NOVEMBER 20, 2015 5:30PM-8:30PM

P001 TBA

P002 Child Ludwig Pattern Hair Loss
Stene Jean-Jacques, MD | Belgium

P003 Hair Follicle Neogenesis and Regenerative Cutaneous Wound Healing with Tocotrienol
Noha S. Ahmed | USA

P004 From Hair to Heart: Nestin-Expressing Hair Follicle Associated Pluripotent (HAP) Stem Cells Differentiate to Beating Cardiac Muscle Cells
Yasuyuki Amoh, MD, PhD | Japan

P005 Lichen Planus Pigmentosus in Frontal Fibrosing Alopecia: Limitations for the Use of Antimalarials?
Alessandra Anzai, MD | Brazil

P006 Male Frontal Fibrosing Alopecia with Cutaneous Lichen Planus: A Case Report
Alessandra Anzai, MD | Brazil

P007 Regulatory T-cells in the C3H/HeJ Mouse Model of Alopecia Areata
Annika BM Åstrand, PhD | Sweden

P008 Trichoscopy in Diferencial Diagnosis of Female Pattern Hair Loss
Daniel Asz-Sigall, MD | Mexico

P009 The Microfollicle: In Vitro Modelling the Hair Follicle for High-throughput Screening
Beren Atac, PhD | Germany

P010 Repairing Effect on Damaged Hair of the Shampoo With a High Content of Botanical Oil
Woori Bae, MSc | Korea

P011 A Retrospective Review of Treatment Results for Patients With Central Centrifugal Cicatricial Alopecia
Courtney W. Bagayoko, MD, MS | USA

P012 Prostaglandin D2 and Its Metabolite 15-dPGJ2 Promote Catagen Progression in Mice
Soon Sun Bak, PhD | Korea

P013 In Vitro Reconstructed Scalp Model to Study Early Steps of Hair Follicle Neo Morphogenesis
Khalid Bakkar, PhD | France

P014 Eyelash Transplantation: Sequelae & Complication Management
Alan J. Bauman, MD | USA

P015 Effects of Hair Products and Actives on Hair Water Content
Fraser I. Bell, PhD | United Kingdom

P016 Progressive Modification of Hair Keratin Protein Through Repeated Use of Penetrating Actives Delivered by Shampoo and Conditioner Systems
Fraser I. Bell, PhD | United Kingdom

P017 Clinical Effects of DPCP in Alopecia Areata, Retrospective Review of 50 Patients
Wilma F. Bergfeld, MD | USA

P018 Is Androgen Excess Masked in Alopecia Areata Patients: A Retrospective Data Analysis of 1,587 Patients
Wilma F. Bergfeld, MD | USA

P019 Prevalence of Hormonal and Endocrine Dysfunction in Lichen Planopilaris Patients: A Retrospective Data Analysis of 413 Patients
Wilma F. Bergfeld, MD | USA

P020 A Novel Treatment Principle in Anti-hirsutism Management: An Osteopontin-derived Peptide Potently Inhibits Human Hair Growth in Vitro and in Vivo
Marta Bertolini, PhD | Germany

P021 Do $\gamma\delta$ T Cells Contribute to Human Hair Biology and Pathology?
Marta Bertolini, PhD | Germany

P022 Pilot Observations That the Ecto-enzymes, CD73 and CD39, May be Novel Players in the Human HF Immune System and in Hair Growth Regulation
Marta Bertolini, PhD | Germany

P023 Dissecting Folliculitis in Children Post Lice Infestation
Diego L. Bet, MD | Brazil

P024 Variations and Similarities of Hair Follicles and Papillae from Vertex and Occipital Regions in Subjects with Androgenetic Alopecia and Healthy Controls
Paul L. Bigliardi, A/Prof | Singapore

P025 Relating the Biomechanical Properties of the Human Hair Follicle to its Microstructure
Lucien Bildstein, PhD | France

P026 Solution of Hair Strength Using the Maillard Reaction
Sungah Bin | Korea

P027 A Case of Foreign Body Reaction Following Hair Restoration Surgery
Leila D. Bloch, MD | Brazil

P028 Efficacy Assessment of a Nutraceutical in the Reduction of Telogen Effluvium in Women
Leila D. Bloch, MD | Brazil

P029 Global MicroRNA Profiling Suggests Their Role in the Control of Human Hair Follicle Ageing
Natalia Botchkareva, MD, PhD | United Kingdom

P030 Adipose Derived Stromal Stem Cells Therapy in Alopecia
Maria L. Bovcon, BSc, MSc | Argentina

P031 Monitoring Changes in Hair Structure During Childhood
Maria L. Bovcon, BSc MSc | Argentina

P032 Association of Lichen Planopilaris with Thyroid Disease: A Retrospective Case-control Study
Nikoleta Brankov, BS | USA

P033 Can Hair Follicles "See" the Light? Analysis of Light-Sensitive Receptors in Human Hair Follicles
Serena Buscone, MSc | United Kingdom

P034 The Prevalence of Geriatric Alopecia Areata Among 572,617 Dermatology Patients Seen at a Large Dermatology Group Private Practice Throughout Florida and Ohio
Chauncey C. Caldwell, MD | USA

P035 Safety and Efficacy of Clobetasol Propionate 0.05% E Foam for the Treatment of Central Centrifugal Cicatricial Alopecia
Valerie D. Callender, MD, FAAD | USA

P036 Trichotillomania Treated With N-acetyl Cysteine
María E. Cappetta, MD | Argentina

P037 Understanding the Genetics of Rare Hair Disorders in Children
Leslie Castelo-Soccio, MD, PhD | USA

P038 The Development of a Genetic Approach to Suppress an Inheritable Structure Defect of the Hair
Jiang Chen, MD | USA

P039 The Thyroid Hormone Analogue KB2115 (Eprotirome) Prolongs Anagen in Human Hair Follicles: A Novel Strategy for Managing Telogen Effluvium?
Jérémy Chéret, PhD | Germany

P040 Androgenetic Alopecia: Is Mitochondria Function Altered in Dermal Papilla Cells From Balding Scalps?
Elaine G. Chew, BSc | Singapore

P041 Prevention and Treatment of Alopecia Areata with Mesenchymal Stem Cells in the C3H/HeJ Mouse Model
Gwang Seong Choi, MD | Korea

P042 A Pilot Study on Efficacy and Safety of Various Concentrations of Intralesional Triamcinolone Acetonide for Patchy Alopecia Areata
Thomas W. Chu, MD | Taiwan

P043 Short and Long Term Tissue Changes After Heat and Steam Treatment in Hair Follicles and Skin in Mice: A Histopathology and HD-OCT Study
Shunjie Chua, MD | Singapore

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- P245** Early Events in the Border of Patchy Hair Loss Lesions of Alopecia Areata Revealed by Serial Transverse Sections
Xingqi Zhang, MD, PhD | China
- P246** Sequential Cyclic Change of Hair Roots of Dystrophic Anagen Followed by Catagen and Telogen in The Mechanism of Alopecia Areata Incognita Revealed by Dermoscopy
Xingqi Zhang, MD, PhD | China
- P247** CRTH2/ PTGDR2 Antagonists Reverse the Hair Growth Inhibition Caused by Elevated PGD2 Level
Ying Zheng, PhD | USA
- P248** Cocking the Eyebrows to Find the Missing Hairline in Frontal Fibrosing Alopecia: a Useful Clinical Maneuver
Bree Zimmerman, MD | USA

Exhibits

You are invited to visit the exhibits at the 9th World Congress for Hair Research, located in the Mezzanine on the second floor of the InterContinental Hotel Miami. Companies of interest to dermatologists, dermatologic surgeons, hair restoration surgeons and hair researchers will be displaying their products and services. Representatives will be available to answer questions. Coffee breaks will be served in the exhibit area.

EXHIBIT VIEWING HOURS

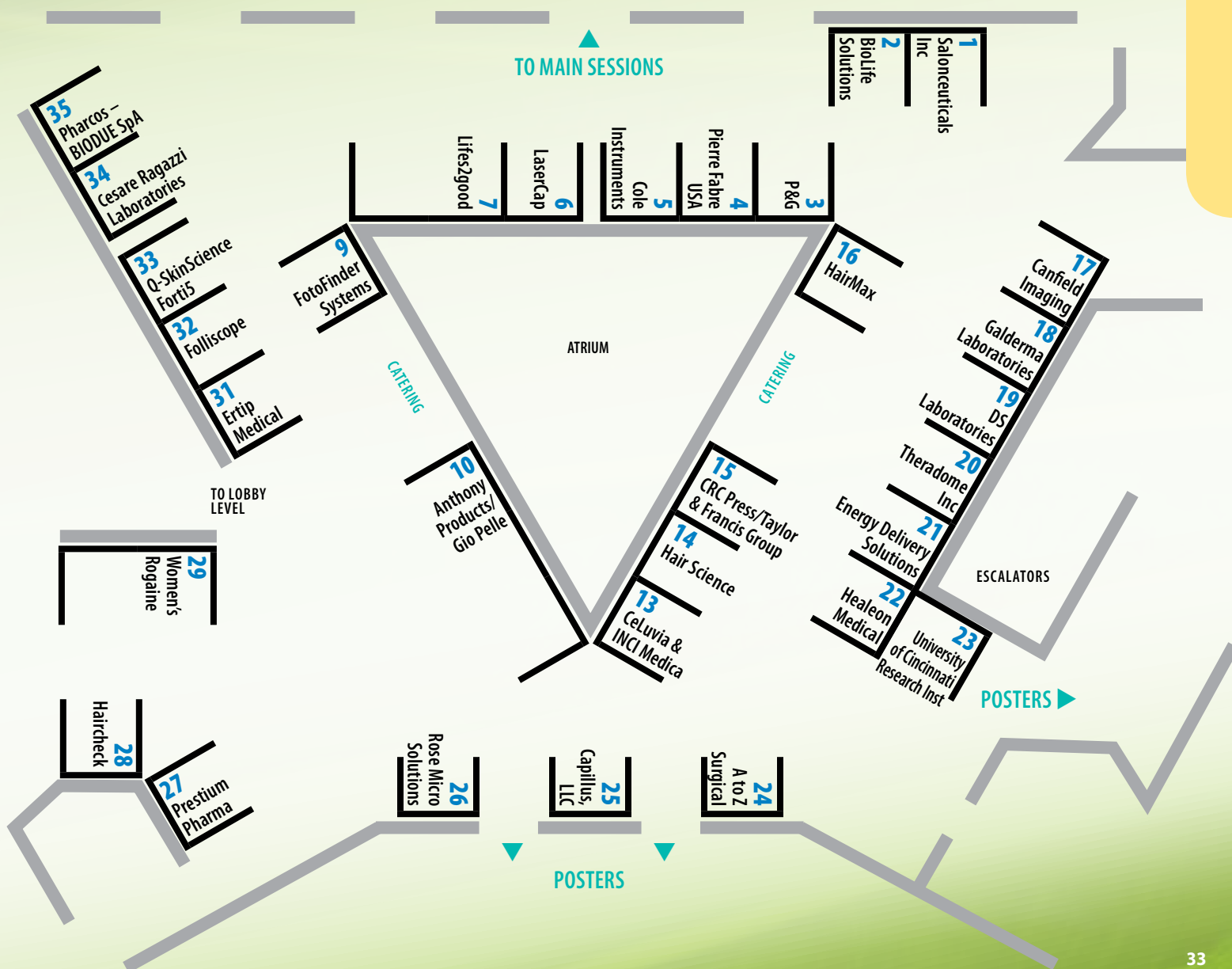
Wednesday NOVEMBER 18, 2015	4:30PM-8:00PM <i>Welcome Reception in Exhibit Area</i> 6:30PM-8:00PM
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Thursday NOVEMBER 19, 2015	7:30AM-5:00PM
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Friday NOVEMBER 20, 2015	7:30AM-5:30PM
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EXHIBITORS DISMANTLE

Friday NOVEMBER 20, 2015	5:30PM-8:30PM
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The following is a list of exhibiting companies (as of copy deadline for this program), listed in alphabetical order by company name.

A to Z Surgical

25 Plant Ave.
Hauppauge, NY 11788 USA
Phone: 1-516-849-3936 or toll-free (U.S. & Canada) 1-800-843-6266
Fax: 1-631-273-6199
kenny@georgetiemann.com
www.atozsurgical.com
Kenny Moriarty, VP
BOOTH #24

Surgical instruments and accessories for all types of surgery including microscopes, follicular scopes, FUE devices, surgical chairs and loupes.

Anthony Products/ Gio Pelle

7740 Records
Indianapolis, IN 46226 USA
Phone: 1-371-545-6196 or toll-free (U.S. and Canada) 1-800-428-1610
Fax: 1-317-543-3289
customerservice@anthonyproducts.com
www.anthonyproducts.com
Charles Petrucci
BOOTH #10

Anthony Products specializes in the distribution of ENT, Plastic Surgery and Dermatology instruments and equipment. Gio Pelle specializes in customized skin care and microdermabrasion. Private label opportunities are available for skin care.

BioLife Solutions, Inc.

3303 Monte Villa Parkway, Suite 310
Bothell, PA 98021 USA
Phone: 1-425-402-1400 or toll-free (U.S. & Canada) 1-866-424-6543
info@biolifesolutions.com
www.biolifesolutions.com
Matt Snyder, VP Global Sales
BOOTH #2

HypoThermosol® is a GMP, serum-free, protein-free, clinical grade graft storage solution specifically formulated to preserve cells and tissues during hypothermic storage.

Canfield Imaging Systems

253 North Passaic Avenue
Fairfield, NJ 07004 USA
Phone: toll-free (U.S. & Canada) 1-800-815-4330 or 1-973-276-0339
info@Canfieldsci.com
www.Canfieldsci.com
BOOTH #17

A global imaging service and systems provider offering solutions to improve communications and support claims through photographic documentation and image analysis.

Capillus, LLC

1430 South Dixie Highway, Suite 304
Coral Gables, FL 33146 USA
Phone: 1-786-888-6249 or toll-free (U.S. & Canada) 1-888-272-9599
www.capillus.com
Carlos Piña, CEO
BOOTH #25

Capillus, LLC manufactures & markets the FDA-cleared, Capillus272 laser therapy cap, a low-level laser device that is safe & effective for the treatment of hair loss due to heredity. The Capillus272 is a non-surgical option sold only through physicians.

CeLuvia & INCI Medica

23 Lesmill Road # 205
Toronto, ON M3B 3P6 CANADA
Phone: 647-894-7781
giorashavit@hotmail.com
www.celuvia.com
www.reload-hairloss.com
BOOTH #13

Celuvia & Inci Medica are leaders in the anti-aging and hair restoration technology. From brightening complex to skin reconstruction up to hair growth. True results & zero side effects. Looking for distributors.

Cesare Ragazzi Laboratories

Via Benini, 11
Zola Predosa (Bologna), 40069 ITALY
Phone: +39051755407
stefanoospitali@cesareragazzi.com
www.cesareragazzi.com
Stefano Ospitali, CEO
BOOTH #34

Hair replacement system: cnc Italian medical device – CRLAB trichological products.

Cole Instruments

1070 Powers Place
Alpharetta, GA 30009 USA
Phone: 1-678-566-1011 or toll-free (U.S. & Canada) 1-800-368-4247
Fax: 1-678-566-1957
sales@coleinstruments.com
www.coleinstruments.com
Barbara Perkins
BOOTH #5

Hair transplant medical devices.

CRC Press/Taylor & Francis Group

6000 Broken Sound Parkway NW
Suite 300
Boca Raton, FL 33487 USA
Phone: 1-561-998-2507
Fax: 1-561-998-2559
www.crcpress.com
BOOTH #15

CRC Press – Taylor & Francis Group is a global publisher of print and electronic books. Visit our booth to browse our publications in hair restoration and plastic surgery and receive convention discounts. Register for email alerts at www.crcpress.com.

DS Laboratories

1601 Green Road
Pompano Beach, FL 33064 USA
Phone: toll-free (U.S. and Canada) 1-888-404-7770
sheryl@dslaboratories.com
www.dslaboratories.com
Sheryl Bard, Director of Customer Service
BOOTH #19

We are on a mission to radically change hair and skin care practices by developing innovative technologies which make a meaningful difference in the lives of our customers. DS Laboratories, as an industry leader for over 10 years, has an unrelenting passion to continually revolutionize the beauty industry.

Energy Delivery Solutions

3315 Industrial Parkway
Jeffersonville, IN 47130 USA
Phone: 812-920-0596
Fax: 812-725-9018
bill.ehringer@energy-delivery-solutions.com
www.energy-delivery-solutions.com
Dr. Bill Ehringer, CEO
BOOTH #21

Energy Delivery Solutions offers the world's only ATP delivery solution for use in cell and tissue preservation. Our patented solution has been used in cell and tissue studies during hypoxia and has shown superior performance compared to cell medias or tissue and organ preservation solutions alone.

Ertip Medical

Halide Edip Adivar Mah. Akar Cad.
No: 38 Kat: 3 Daire: 8
Bomonti Sisli
Istanbul, 34382 TURKEY
Phone: 00902122103220
Fax: 00902122102565
info@ertipmedical.com
www.ertipmedical.com
Ms. Busra Eryigit, International Sales & Marketing Manager
BOOTH #31

Ertip provides FUE punches and FUE Device Combi 24 developed for motorized system instead of manual use to open a canal for hair follicles fast and effectively. FUE punches vary in 6 different sizes which are 0,6 – 0,7 – 0,8 – 0,9 – 1,0 – 1,2 MM.

Folliscope

#203, 593-64 Bangbae Dong
Seocho-Gu
Seoul, SOUTH KOREA
Phone: 82-10-5492-1010
anagencorp@gmail.com
www.folliscope.com
Terry Lee
BOOTH #32

Folliscope is a system that offers to customers accurate hair characteristics information by examining hair density, thickness and growth rate with the use of a computer equipped with a high definition color video microscopic camera and extra software.

FotoFinder Systems GmbH

Industriestraße 12
84364 Bad Birnbach, GERMANY
Phone: +49 (0) 8563 97720-0
Fax: +49 (0) 8563 97720-10
info@fotofinder.de
www.fotofinder.de
Andreas Mayer
BOOTH #9

FotoFinder is setting the pace in trichoscopy, offering unmatched resolution for measurements with half-micron accuracy and services for diagnosing hair loss without shaving, epilation or biopsy! FotoFinder Trichoscale provides you with a digital trichogram.



Galderma Laboratories, L.P.

14501 North Freeway Service Road East
Fort Worth, TX 76177 USA
Phone: 1-817-961-5297
vanessa.villasenor@galderma.com
www.galderma.com

BOOTH #18

Galderma Laboratories, L.P. Founded in 1981, Galderma is committed to delivering innovative medical solutions to meet the dermatological needs of people throughout their lifetime while serving healthcare professionals around the world.

Haircheck

12188 SW 128th St.
Miami, FL 33186-5231 USA
Phone: 1-305-253-9200 or toll-free (US & Canada) 1-800-233-7453
Fax: 1-305-253-6696
vidal@iberiusllc.com
www.haircheck.com
Mike Vidal, President

BOOTH #28

Patented technology measures hair loss, breakage, and response to treatments. Haircheck gives a precise measurement of "how much hair" is present in an area of scalp and will generate a "hair score" to aid in the diagnosis of thinning and shedding.

HairMax-Lexington International, LLC

777 Yamato Road
Boca Raton, FL 33431, USA
Phone: 1-561-314-2430
Fax: 1-561-892-0747
dm@hairmax.com
www.hairmax.com
David Michaels, Managing Director

BOOTH #16

HairMax laser phototherapy medical devices treat androgenetic alopecia and promote hair growth in both males and females, and are U.S. FDA cleared. Six double-blind studies were conducted, proving the safety and efficacy, with results published in 3 peer-reviewed journals.

Hair Science

5355 E. High Street, #422
Phoenix, AZ 85054 USA
Phone: 1-951-295-8087
dgreif1@cox.net
www.hairsience.com
Doug Greif, President

BOOTH #14

Uniquely engineered formulations, such as Formula 82M, are designed to restore hair follicles to normal function. Formula 82M is a prescription formulation that is supplied through MasterPharm Compounding Pharmacy in New York.

Healeon Medical, Inc.

1111 Rancho Conejo Blvd., #204
Newbury Park, CA 91320 USA
Phone: 1-805-499-7482
sales@healeonmedical.com
www.healeonmedical.com
John Panik

BOOTH #22

Healeon Medical, Inc. provides devices featuring the state-of-the-art CENTRICyte 1000 AND Healeon's PRP for regenerative cellular therapy.

LaserCap

3615 Superior Ave., Suite 3104F
Cleveland, OH 44114 USA
Phone: international toll-free at 1-877-711-4769
info@laserlap.com
www.laserlap.com
Prerna Khemka, Director

BOOTH #6

LCPRO™ – a hair thinning treatment device which uses low level light therapy to aid in the medical management of hair loss. It is wireless, portable and discreet and has 224 lasers for optimal power and efficacy. Created by the inventors of LaserCap.

Lifes2good

355 N. Canal Street
Chicago, IL 60606, USA
Phone: 1-312-454-6184
Fax: 1-312-454-6184
mark@lifes2good.com
www.lifes2good.com
Mark Holland, CEO North America

BOOTH #7

Viviscal Professional is a 100% drug free solution to fuller and thicker hair that is backed by 7 clinical trials and some of the world's leading physicians.

Pharcos – BIODUE SpA

Via Ambrogio Lorenzetti 3/a
Sambuca V.P., Florence, ITALY
Phone: +39335306415
ruffo.benedetti@biodue.com
Dr. Ruffo Benedetti, CEO

BOOTH #35

The WNT pathway represents the principal molecular signaling system that acts in the epidermis and the derma during the formation and development of the hair follicle. Deltacrin WNT, promoting the activation of the WNT pathway, is an innovative product line for the treatment of hair loss.

Pierre Fabre USA

8 Campus Drive, Fl. 2
Parsippany, NJ 07054 USA
Phone: 1-973-355-8000
Fax: 1-973-989-0420
customerservice@pfdusa.com
www.pierre-fabre.us
Anais Guerlaud, Product Manager - Glytone

BOOTH #4

Pierre Fabre Laboratories is one of the largest pharmaceutical companies in France and a worldwide specialist in dermo-cosmetics including the Ducray brand, dedicating its research to the health and beauty of hair with clinically demonstrated results.

Prestium Pharma

411 South State Street, Suite E-100
Newtown, PA, 18940 USA
Phone: 1-267-685-0340
james.caruso@renpharm.com
www.prestiumpharma.com
James Caruso, Product Manager

BOOTH #27

Prestium is committed to improving patients' lives by reliably supplying high-quality, complex pharmaceutical products.

Procter & Gamble

2 P&G Plaza
Cincinnati, OH 45202 USA
Phone: 1-513-983-1100
Sullivan.a.4@pg.com
www.pgdermatology.com
Andy Sullivan

BOOTH #3

Procter & Gamble partners with leading health care professionals and scientists to develop breakthrough products that help improve the quality of patients' lives.

Q-SkinScience Forti5

12203 SW 131 Ave
Miami, FL 33186 USA
Phone: 1-305-591-6868
Fax: 1-786-429-3525
info@qskinscience.com
www.qskinscience.com

BOOTH #33

Q-SkinScience® Forti5 is a nutritional supplement designed by world leading dermatologists based on the most advanced hair loss research currently available. It helps to restore and support thicker and faster growth of thinning hair through five key pathways.

Salonceuticals Inc.

3148 W. Pembroke Road
Hallandale, FL 33009 USA
Phone: 1-877-706-8688
ginger@regenepure.com
www.salonceuticals.org
Ginger Loranger-Alarcon

BOOTH #1

Regenepure by Salonceuticals is an advanced doctor endorsed pre and post-transplant product line free of sulfates and parabens.

Theradome, Inc.

4900 Hopyard Road, Suite 100
Pleasanton, CA 94588 USA
Phone: 1-510-828-5880
www.theradome.com

BOOTH #20

Theradome™ LH80 PRO, the world's technologically advanced, FDA-cleared OTC wearable laser helmet for hair growth. Millions of people suffering hair loss can enjoy effective hair treatments at home. Our device uses 80 proprietary lasers to deliver clinical grade performance for hair restoration therapy.

University of Cincinnati Research Institute

260 Stetson Street
Cincinnati, OH 45226-1401 USA
Phone: 1-513-558-5849
nick.nikolaides@ucr.org
www.ucr.org
Nick Nikolaides, Business Development

BOOTH #23

TUCRI helps businesses tap into the world-class expertise & resources found on the UC campus. We're a separate organization from UC, but closely affiliated and well connected. We offer a "one stop shop" for accessing UC smarts in all its many varieties.

Women's Rogaine

199 Grandview Road
Skillman, NJ 08558, USA
Phone: 1-800-223-0182
jhaus2@its.jnj.com
www.womensrogaie.com
Jared Haus, Director Professional Marketing

BOOTH #29

The ROGAINE® brand is the first topical brand FDA-approved to help regrow hair - in both men and women. With 25 years of results and numerous clinical trials, the ROGAINE® brand is the #1 dermatologist-recommended brand for hair regrowth.



Non-Profit Organizations – Table Top Exhibits



Alopecia UK is a small UK charity which has a vision to improve the lives of those affected by alopecia. We have aims centred around support, awareness, research and fundraising. Although we predominately focus on alopecia areata, we support individuals with scarring and androgenetic alopecia too as the psychological and social stigma issues are the same.

We have developed a network of supports across the UK. At these meetings people meet others with hair loss and share their experiences and information, increasing their feelings of support and reducing feelings of isolation. In 2014 we held our first 'Big Weekend' incorporating an information day with healthcare professionals providing presentations and workshops tailored to children and adults. We enabled individuals to socialise in a safe environment

to give them coping strategies as many people feel isolated by their skin disease.

We have helped to fund a Hair Loss Priority Setting Partnership to identify the unanswered questions about hair loss prevention, diagnosis and treatment. This is a consultative process with patients, carers, parents and clinicians to agree which priorities research should target and what really matters to everyone.



C. A. R. F.

The Cicatricial Alopecia Research Foundation (CARF) is a nonprofit public charities organization and the world's only voice for patients with cicatricial alopecia. Our Mission is to provide education and patient support, raise public awareness, and advance and promote

research, and our Vision is to improve the care of patients with inflammatory, scarring hair disorders

HOW WE HELP:

1. We fund research. CARF-funded research is leading the effort to find more effective treatments and a cure for cicatricial alopecia. The Cicatricial

Alopecia Research Symposium (2011) brought together world-class experts and facilitated the exchange of ideas and information between laboratory and clinical researchers to accelerate the translation of basic scientific discoveries into clinical applications. The next Symposium will occur in May 2016 in conjunction with the SID Annual Meeting.

2. We organize and facilitate support groups. CARF support groups, active in 10 cities in the United States, Canada and the United Kingdom, serve as a forum for patients to share insights in a supportive, safe, and comfortable setting. Through the exchange of information, participants find emotional, medical and cosmetic support for living

with cicatricial alopecia. A physician is present at all meetings to answer questions and make sure correct, up-to-date information is given.

3. We hold patient-doctor conferences. The CARF biennial Patient-Doctor Conference is a multi-day educational conference where patients learn more about the diagnosis and available treatments, discover the latest research breakthroughs, hear about cosmetic solutions, meet leading physicians and researchers in the field, and participate in breakout sessions.
4. We provide education to the public via website, brochures, newsletter, and advocacy.



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.



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.



The World Trichology Society is a North American-based organization dedicated to educating, supporting and promoting

trichologists worldwide. With this goal in mind, in addition to our Associate and Certification

courses, we also offer a Fellow course for advanced trichological knowledge and have liaised with an accredited online University to offer a Doctor of Health Science (DHS) course with a specialization in trichology.

The World Trichology Society's aims:

- To promote leadership in trichology and excellence in client/patient care through education and advocacy.

- Promote excellence in educational standards for student-trichologists worldwide.
- Promote interdisciplinary interaction between trichologists, physicians and other specialties for the benefit of the client/patient.

MIAMI

There's no place on Earth like Miami.

Made legendary during the whimsical Art Deco era, and again when Crockett and Tubbs of the TV show "Miami Vice" thrilled us as they raced across the city, Miami has evolved into the world's premier playground — so much more than it ever was before.

Officially called Greater Miami and the Beaches, Miami offers a fascinating blend of cutting edge urban chic and Old World Florida mixed with Cuban culture.

Miami is world renowned for its beautiful sand beaches, hot clubs and luxe lounges. Cosmopolitan crowds and beautiful surroundings make Miami the perfect place to party after a long day. Home to master chefs, five-star restaurants and the freshest ingredients, Miami has become a mecca for foodies. Miami's restaurants feature a blend of culture and culinary technique that has evolved into what is now known as New World Cuisine — a product of Caribbean, Latin and European cuisines unique to the destination.



Although the Cuban influence runs strong, Miami has an unparalleled mix of ethnic and cultural groups spread throughout the sprawling city (more than 100 languages spoken). Miami offers a live and

let live philosophy — an essential attitude in a large city with so many different points of view.

Glorious weather has always been the main attraction, with yearly temperatures in Miami averaging 76°F. Sun-kissed days feature bluer than blue skies, dotted with surreal cotton candy clouds. Gentle breezes keep things cool throughout the day, while sultry temperatures heat up clear "Moon over Miami" evenings.

In recent years, Miami has spawned its own artistic renaissance, hosting several prestigious film, music and art festivals while still offering local gallery walks down historic streets. In addition, Downtown Miami has been going through major development over the past several years. The latest addition is the currently under-construction Museum Park, a state-of-the-art, environmentally friendly bayfront facility. The stunning Pérez Art Museum Miami is now open, and the Frost Museum of Science will soon be open in early 2016.

Miami is home to two national parks and countless other attractions, so visitors have unlimited options — snorkeling, swimming with dolphins, playing with monkeys, hand-feeding alligators and conversing with parrots, to name a few.



Enjoy a day at sea. Sail across Biscayne Bay or snorkel at one of the recreational diving spots and let the calm waters of the Atlantic Ocean relax and inspire you. Sightseeing tours, beach excursions and sunset cruises provide just the right opportunity for visitors to dive right in.



MIAMI

EXPLORE MIAMI'S MANY EXCITING NEIGHBORHOODS

DOWNTOWN MIAMI The location of the InterContinental Hotel Miami, downtown is a hub for international business and finance, with soaring office towers and ultra-modern condominiums lining Brickell Avenue. Enjoy the shopping, dining and nightlife of the new and exciting Mary Brickell Village.

SOUTH BEACH/ART DECO DISTRICT South Beach is located just off the mainland, across the MacArthur Causeway from Downtown Miami, which is about a 20 minute drive. South Beach's Art Deco District pulls you in with an imaginative collection of more than 800 architecturally protected historic buildings from the 1930s and 1940s – the largest concentration of Art Deco architecture in the world. Referred to as the "American Riviera," South Beach is crowned by Ocean Drive,

friendly area of town is Lincoln Road, a lively magnet for culture, entertainment and shopping, as well as people watching.

DESIGN DISTRICT On the northern fringes of downtown, the Design District is home to leading home designer brand stores and also other fashion brand icons.

WYNWOOD With a tropical SoHo vibe, Wynwood is home to more than 100 art galleries and the astonishing Wynwood Wall, an open air park dedicated to cutting-edge museum quality contemporary urban murals.

LITTLE HAVANA Saturated with Cuban culture, Little Havana's main thoroughfare, Calle Ocho (Eighth Street) is lined with comfort food restaurants featuring Latin specialties and cafes where men sip cafecitos, play dominos and argue about politics all day. Here, artisans still hand-roll cigars, and tailors create custom guayaberas (traditional linen shirts), while the sounds of salsa and meringue fill the air.

LITTLE HAITI This is the cultural heart for the Haitian Diaspora. The area boasts art galleries, Haitian book and music stores and the Little Haiti Cultural Center, which hosts dance and theater performances and is increasingly becoming a burgeoning center of small independent businesses of all kinds.

COCONUT GROVE South of downtown where the foliage becomes lush and tropical, Coconut Grove was legendary in its heyday as an arts colony. Today, the culturally diverse locality draws throngs of tourists and residents to its restaurants and cafes, art galleries, boutiques, farmers' markets and bookstores.

BAL HARBOUR A favored hideaway of the rich and famous, Bal Harbour epitomizes luxury living. Upscale hotels and condos offer oceanfront views, world-class beaches and resort spas all in a quiet, relaxing and high-end environment. This is a necessary stop for luxury shoppers as its shops and mall rival the world's most ultra-luxury shopping centers.

SUNNY ISLES BEACH The atmosphere in Sunny Isles Beach is casual. The funky 1950's motels and small beachfront hotels are giving way to luxury apartment towers and hotels. However, little has changed on the Newport Fishing Pier, where you can drop a line and fish from shore. For real deep-sea fishing, head to the charter boats docked on the Intracoastal Waterway at Haulover Beach Park. Across the way, a one-mile stretch of white sand and open ocean surf invites sunbathing and swimming. Oleta River State Park is a popular destination for kayaking and biking.

There are no WCHR group charter tours offered, but if you would like to arrange individual tours, you are encouraged to do so through the hotel concierge desk.

PHONE 1-305-372-4708

EMAIL concierge.icmiami@ihg.com

For more information on Greater Miami and all it has to offer, go to:

<http://www.miamiandbeaches.com/places-to-see>



a world class catwalk of see-and-be-seen boutique hotels, alfresco cafes, bikini-clad in-line skaters and beaches packed with fashionable sun seekers. Across from this pedestrian





GETTING AROUND DOWNTOWN WITH THE METROMOVER Everybody rides free on Metromover! This 4.4-mile electrically-powered, fully automated monorail people mover system connects with Metrorail at Government Center and Brickell stations and with Metrobus at various locations throughout downtown. Major destinations of the Metromover system include the American Airlines Arena, Bayside Market Place, Miami-Dade College and the Miami-Dade County School Board. The stop nearest the InterContinental Hotel Miami is Bayfront Park. For more information go to: <http://www.miamidade.gov/transit/metromover.asp>.



SOME TOP THINGS TO DO AND SEE IN GREATER MIAMI

BASK ON THE MANY BEACHES The beach is the place to be, whether you want to swim, sunbathe, socialize or just soak up the local vibe.

BAY OR OCEAN CRUISE From yachts to catamarans to sail boats, there are many cruises available.

BAYFRONT PARK & BAYSIDE MARKETPLACE Bayfront Park leads into Bayside Marketplace, an entertainment, shopping and dining area for you to enjoy only steps away from the Hotel InterContinental Miami.

EVERGLADES BOAT TOUR See the alligators in their natural habitat.

DEEP SEA FISHING Various fishing charters are available.

GOLF MIAMI BEACH Miami Golf Club and Crandon Golf at Key Biscayne are but a few of the many courses.

TOP NOTCH WORLD DINING Miami is home to master chefs, five-star restaurants and the freshest ingredients.

NIGHTLIFE AND NIGHTCLUBS Mary Brickell Village in downtown and South Beach are hot night spots. Some of the best known clubs are Mansion, Mango's Tropical Café, Dinner & Show, and Bongo's Cuban Café, owned by singer Gloria Estefan.

WORLD CLASS SHOPPING Everything from malls to luxury stores to concept shops, check out Lincoln Road, Bal Harbour and Miami Design District.

VIZCAYA MUSEUM & GARDENS This historical 50-acre Vizcaya estate offers a glimpse at life in turn-of-the-century South Florida.

ZOO MIAMI The Miami-Dade Zoological Park and Gardens, branded and commonly known as Zoo Miami, is the largest and oldest zoological garden in Florida, and the only tropical zoo in the United States.

JUNGLE ISLAND Jungle Island is a unique interactive zoological park.

MONKEY JUNGLE A 30-acre wildlife park established in 1933 for the exhibition and study of endangered monkeys in semi-natural habitats.



Commemorative Messages

Highest Level Corporate Supporters



Johnson & Johnson Consumer Inc, the makers of Women's Rogaine® are proud to be the Platinum Sponsor for the 9th World Congress for Hair Research, and welcome all to Miami for this impressive gathering of hair researchers. We are excited to partner with the North American Hair Research Society

to support this wonderful hair research meeting. Johnson & Johnson is dedicated to supporting global research in the area of hair loss and continues to support the field of hair loss research as well as patients through their hair loss journey. Further, we are proud to announce this year's launch in the United States of the first ever, once a day foam for female pattern hair loss. Women's Rogaine® works beneath the surface to reactivate follicles and help regrow hair.

Johnson & Johnson is committed to continuing research in hair sciences to create innovative solutions for our patients'. We welcome you to attend our Symposium entitled: Quality of Life Considerations and Treatment Opportunities in Female Pattern Hair Loss on Friday from 7:30-9 in the Trianon Room, scientific posters as well as our booth on the exhibit floor for product information. Johnson & Johnson hopes that you have a wonderful and educational World Congress!



As a Gold Sponsor, P&G is delighted to welcome all Congress Delegates to Miami for the 9th World Congress for

Hair Research and to be supporting this important and exciting event. It promises to be an intensive week of seminars and symposia bringing together new insights and different perspectives and dimensions in the latest hair research. We look forward to the chance to meet together as a global hair research community and with you all as the world's leading experts in clinical and scientific research in hair.

At P&G we recognise the important role that the appearance of the hair and a healthy scalp plays for men and women around the world. The need for everyday hair care solutions developed through an advanced understanding of hair and scalp science and proven to deliver results effectively and efficiently is relevant more than ever. Our Pantene and Head and Shoulders Scientists and Dermatology experts look forward to sharing with you some of our latest research via our sponsored symposium, "New Insights and Cosmetic Approaches for Healthy Hair and Scalp," on Thursday 19th.

We also cordially invite you to join us at our Exhibition Booth to learn more about

the science behind our haircare brands – including Pantene, Head and Shoulders, Wella - and our leading skincare brand Olay. Please join us for the opportunity to experience our brands and products for yourself.

On behalf of P&G, we would like to recognise and thank the Congress Organisers and Scientific Planning Committee for all their hard work in putting together such a stimulating program. Thanks are due for the leadership of the North American Hair Research Society and their partners across the globe in Australasia; Europe; India; Japan and Korea in creating an international event that reflects the global nature of the Hair Research Community.



Samumed, LLC is a pharmaceutical platform company based in San Diego that has made groundbreaking advances in the biology of tissue regeneration. Samumed is privately funded and was founded in 2007 with headquarters in San Diego, CA. We are proud to be a SILVER sponsor of the

9th World Congress for Hair Research. We want to take this opportunity to recognize and congratulate all of the physician researchers, surgeons and talented scientists from around the world for their dedication and contributions to develop new and effective treatments for hair loss. We are grateful for the opportunity to present our initial findings on our new small molecule in development for androgenetic alopecia, SM04554. We at Samumed are committed

to partnering with the scientific community to utilize our knowledge to further hair loss research. We currently have five programs in clinical stage across three sets of separate disease areas: alopecia/anti-aging, musculoskeletal and oncology/fibrosis. All of these programs target conditions that impact the health and quality of life of millions of people worldwide. For more information please visit www.samumed.com.

Corporate Supporters

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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.



Canfield Scientific, Inc. is proud to sponsor the 9th World Congress for Hair Research.

We congratulate the organizers and faculty on presenting this important event and thank them for giving us the opportunity to participate. Hair research was the foundation of Canfield in the early years, and continues to be a key component of our portfolio. Today,

imaging solutions and analytical systems developed by Canfield play a critical role in supporting hair researchers around the world, and we would be pleased to offer our expertise in your future projects. We are looking forward to meeting with you again in 2017 in Kyoto.



C. A. R. F.

Cicatricial Alopecia Research Foundation (CARF) extends its warmest congratulations to the WCHR2015 organizers for bringing us together to learn,

interact, and meet old and new colleagues alike. Our thank you to the scientific committee for all of the effort in planning and many hours of hard work to put together this rich program. CARF is a small but mighty organization that

shares the concerns of hair loss regardless of the type or cause. We are proud to support the WCHR2015 and appreciate the opportunity to attend and share our passion to advocate for our patients and research with you.



Congratulations to the organizers of the 9th World Congress for Hair Research. It is an honour to be part of this prestigious conference. At ERTIP MEDICAL, we believe in

education & scientific research. We dedicate ourselves to give support to the research and development activities in universities of Turkey by encouraging the doctors for doing the scientific research with the help of workshops and conferences. We developed our FUE punches and forceps according to the comments and researches from the doctors. Hair means self confidence to most

of men and women that's why our aim is to be part of making people more confident about themselves. Therefore, it is a good opportunity for us to meet our colleagues and see all the innovations in the hair field. It is such an important event for us to give our support. We invite you to visit our booth so that you may obtain more details about our hair transplant instruments.



HairMax is the category creator of Phototherapy in Hair Growth, Hair Care and Hair Science, with the innovative range of medical laser devices we offer. The FDA Cleared HairMax laser devices have redefined the treatment

of hair loss and thinning hair. We presently have 7 FDA 510k clearances, 14 medical device licenses world-wide, and 4 peer-reviewed medical journal articles, authored by some of the leading authorities in diseases of the hair. We have a comprehensive research pipeline to quantify the effects of our laser devices on hair growth speed, and density. We are pleased to

be a Bronze sponsor, and we invite meeting participants to visit the HairMax booth, where we will be providing information on our new and exciting, enhanced hands-free HairMax LaserBand. This new laser device requires treatments of only 90 seconds, three times a week, which is faster than any other device of its kind available today.



Congratulations to the organizers of the 9th World Congress for Hair Research (WCHR2015).

Your diligent efforts have attracted the foremost researchers in the field to create an outstanding consortium of ideas and discoveries. The International Society of Hair Restoration Surgery

(ISHRS), the largest international medical organization of hair restoration surgeons in the world, would also like to express sincere appreciation to the faculty of the WCHR2015. Because of the hard work and dedication of research faculty, we are able to learn the latest scientific information shedding light on our understanding of the mechanisms of hair growth and hair loss. The ISHRS supports

research which helps to promote clinical treatment for patients around the world who suffer from various types of hair loss. The ISHRS is grateful for the opportunity to participate as a sponsor of the WCHR2015 and to be a collaborative partner in the prestigious hair research community. Kuniyoshi Yagyu, MD, FISHRS President, ISHRS



Kerastem would like to congratulate the organizers and faculty of the WCHR2015. As leaders in the area of regenerative hair therapies, we are grateful for the opportunity to contribute and be part of the prestigious hair research community.

Corporate Supporters (continued)



Congratulations to Pr. Wilma Bergfeld and all members of WCHR2015 organizing committee. It is an outstanding program and our support to WCHR is consistent with our strategy. L'Oréal Research and Innovation is fully committed in scientific works to better understand hair physiology from people all around the world.



The National Alopecia Areata Foundation (NAAF) is honored to participate in the 9th World Congress for Hair Research and congratulates the Congress Co-Chairs, Planning

Committee, and North American Hair Research Society for organizing a truly international gathering of the greatest scientists and practitioners in the field of hair and scalp diseases. NAAF supports research to find a cure or acceptable treatment for alopecia areata and

the advancement of knowledge in hair growth, hair and scalp disease, and clinical care. We are very grateful for the opportunity to be part of this prestigious hair research community and contribute to the advancement of research in alopecia areata and related diseases.



Shiseido is proud and excited to be a part of WCHR 2015. We would like to extend our sincere thanks and congratulations to the Chairs of this year's congress. Over the 140 years since our founding in Japan, Shiseido has

become a global corporation with strong R&D capabilities and dependable safety and quality assurance systems that deliver top-quality products. We constantly strive to provide a diverse range of products to the hair-care market, including Shiseido Professional, our brand catering exclusively to hair salons

(www.pro.shiseido.com/corporate/). In addition, as our next innovation challenge, we are preparing to expand our cell-based therapy for hair loss across Asia. This revolutionary technology uses autologous hair cells to treat hair thinning and hair loss in both men and women.



Theradome is delighted to be both sponsoring and participating at the World Congress for Hair Research 2015. Now in its 9th year, we would like to congratulate and thank the organizers for arranging what looks set to be yet another truly inspirational conference, and are excited about coming together with our

colleagues in the industry to work towards the continued advances in research on hair growth and replenishment.

At Theradome, our commitment is to enable those experiencing hair loss regain their hair and their confidence by enjoying the benefits of advanced technology, previously available only in clinics, in the comfort of their own home. The Theradome™ LH80 PRO helmet has revolutionized the market, using powerful laser therapy to stimulate new hair growth through

a handy device that is more convenient and far more affordable. With twice-weekly sessions of just 20 minutes each, patients are seeing real results and reversing the hair loss process for good.

We are excited to be taking part in what promises to be a rewarding and insightful event and are honored and proud to be a member of the hair research community.



With some of the most well-known hair care brands worldwide, Unilever is committed to delivering products that help people look good, feel good and get more out of life. Our vision is to grow our business while reducing our environmental footprint and increasing our social impact. We are proud to participate in the WCHR2015.



On behalf of Lifes2good and Viviscal, we are honored to be a part of such a progressive and elite group of individuals. Many thanks to

the Congress Planning Committee, the NAHRS team and active members of the community for putting on such a professional meeting. The ethical responsibility of the community to empower and improve the physical and emotional well-being of others is often overlooked in the great work that you do.

Our passion for the industry and investment in scientific research has enabled us to be a part of this community and we are looking forward to working with many of you over the coming years as nutraceuticals and drug free treatments continue to evolve.



like to congratulate all the organizers for putting together such an incredibly informative Congress. It is also with great pleasure that the WTS welcomes

The World Trichology Society (WTS) is delighted to sponsor this premier event in the field of hair research and would

all the certified trichologists, student trichologists, researchers, dermatologists, and physicians from other disciplines to the United States.

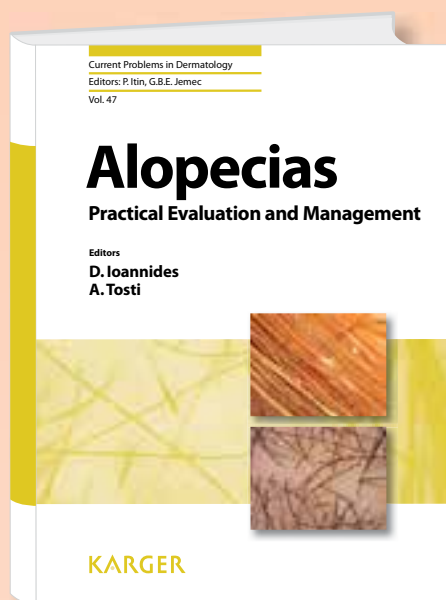
The World Trichology Society is a North American-based organization dedicated to educating, supporting and promoting trichologists worldwide. With this goal in mind, in addition to our Associate and Certification courses, we also offer a Fellow course for advanced trichological

knowledge and have liaised with an accredited online University to offer a Doctor of Health Science (DHS) course with a specialization in trichology.

Along with the recent WTS conference, I am confident that this Congress will help continue to develop the knowledge of our members and students.

David H. Kingsley, PhD
President of the World Trichology Society

A comprehensive and practical overview



Alopecias

Practical Evaluation and Management

Editors

Dimitrios Ioannides
Antonella Tosti

Hair is subject to either intrinsic (i.e. physiological) aging or extrinsic (i.e. premature) aging that can be attributed to external factors. The intrinsic factors can be associated with genetic mechanisms and are subject to individual variations, whereas external factors include ultraviolet radiation, air pollution, smoking, and possibly nutrition.

Leading experts have contributed to this book which offers a practical approach to the evaluation and management of various forms of alopecia, including their pathogenesis, the diagnostic procedures involved, medical treatments, and nutritional issues. A completely new surgical technique for hair transplantation that leaves behind sufficient follicle unit tissue to regenerate hairs is also described.

Being comprehensive and easy-to-read, this book should be very useful for dermatologists who wish to diagnose and treat their patients with hair problems more effectively.

Current Problems in Dermatology, Vol. 47

Alopecias – Practical Evaluation and Management

Editors: Ioannides D. (Thessaloniki); Tosti A. (Miami, Fla.)

VIII + 164 p., 85 fig., 80 in color, 13 tab., 2015

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For more information or to register, please visit 2016.dermsummit.com.

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Kyoto, Japan

WCHR 2017

10th World Congress
for Hair Research

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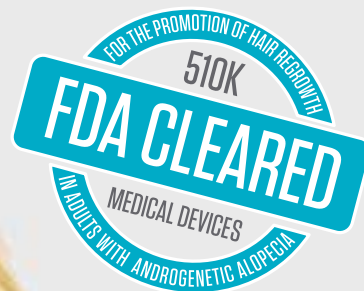


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Samumed has a robust clinical portfolio with trials in androgenetic alopecia, osteoarthritis, cancer, degenerative disc disease and idiopathic pulmonary fibrosis. With its broad technology platform, Samumed has a deep pipeline with several other preclinical programs across multiple disease areas.

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