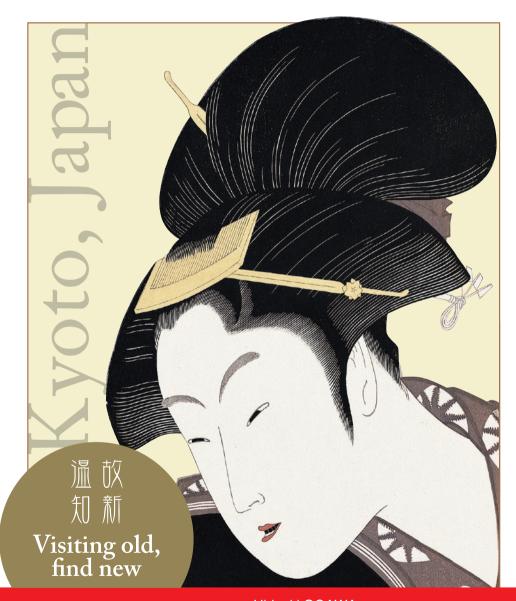
WCHR2017

10th World Congress for Hair Research

Program



Honorary-President Hideoki OGAWA

co-Presidents Ryoji TSUBOI (SHSR), Satoshi ITAMI (JSCHR)







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October 31 (Tue) - November 3 (Fri), 2017

Kyoto International Conference Center





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Welcome Message

Dear Colleagues:

On behalf of the Society for Hair Science Research (SHSR) and the Japan Society of Clinical Hair Restoration (JSCHR), we thank all of you for taking part in the 10th World Congress for Hair Research (WCHR2017) at the Kyoto International Conference Center. In addition to the great honor and pleasure of welcoming so many distinguished guests from the world over, we are especially delighted by the fact that this time we have received 380 abstracts. We sincerely hope that this increase betokens a surge in interest among our colleagues worldwide in the WCHR conference.

Under the slogan of "Visiting the old, finding the new", WCHR2017 will provide hair biologists, tissue engineers, dermatologists, aesthetic scientists, and hair transplantation surgeons new knowledge, techniques, and approaches for the advancement of hair-related science. In addition, we hope that you enjoy the social activities that will be on offer as an adjunct to the scholarly program, and take the opportunity during this three-and-a-half day conference to deepen your ties, both professionally and personally, with other top researchers and clinicians.

As many of you know already, Kyoto is renowned no less for its beauty than for its cultural and historical importance and is particularly resplendent in the Autumn when the brilliant fall colors accentuate the stateliness of the traditional gardens and architecture. Please explore the environs of Kyoto with your colleagues during and after the conference, and make many lovely memories to take back with you from Japan.

Welcome to Kyoto! Best regards,

Honorary-President: Hideoki OGAWA, M.D., Ph.D.

CEO, Juntendo University

Co-President:

Satoshi ITAMI, M.D., Ph.D.

Professor and Chair, Department of Regenerative Dermatology Osaka University Graduate School of Medicine

Satosh Itani

Co-President:

Ryoji TSUBOI, M.D., Ph.D.

Professor and Chair, Department of Dermatology,

and grand

Tokyo Medical University

Chair, Scientific Program Committee: Manabu OHYAMA, M.D., Ph.D.

Professor and Chair, Department of Dermatology, Kyorin University School of Medicine



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Hideoki OGAWA

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The SHSR and JSCHR gratefully acknowledge the following sponsors for their support of the 10th World Congress.

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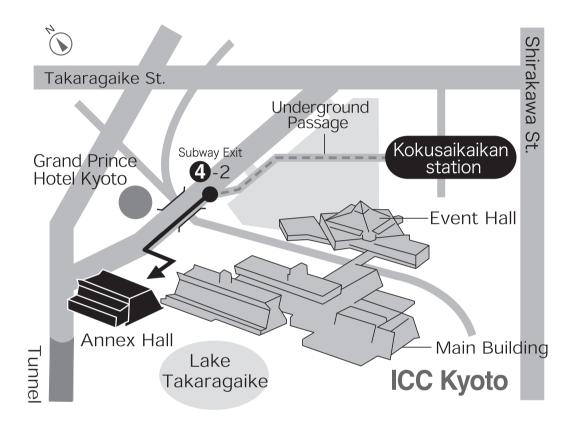
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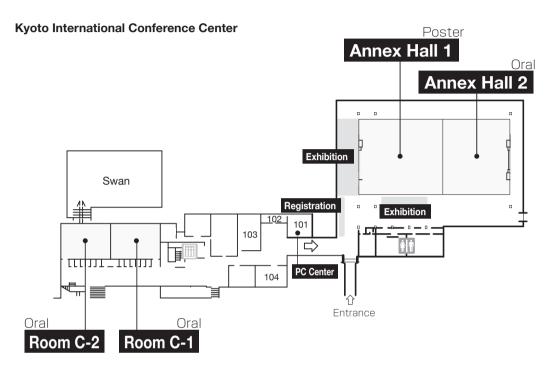


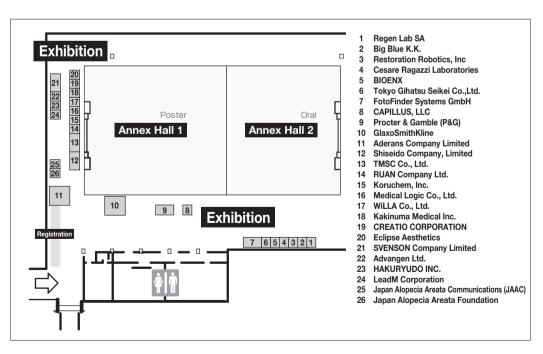
ICC Kyoto Area Map





Floor Map







Program at a glance

	DAY1	Tı	uesday, October	· 31		
	Annex Hall 2	Room C-1	Room C-2	Annex Hall 1	Annex lobby	Room 103
8:00 -						
8:30 -						
9:00 -						
9:30 -						
10:00 -						
10:30 -						
11:00 -						
11:30 -						
12:00 -						
12:30 -						
13:00 -						
13:30 -						
14:00 -						
14:30 -	Learning Course					
15:00 -	for Residents and Beginners			Poster Mounting	Exhibition	
15:30 -	Chairs: Shigeki INUI, Taisuke ITO, Yutaka SHIMOMURA			Wounting		
16:00 -						
16:30 -						
17:00 -	Coffee Break					
17:30 -	Opening Ceremony Hideoki OGAWA, Ryoji TSUBOI, Satoshi ITAMI, Manabu OHYAMA					
18:00 -	17:40-18:10 Special Lecuture Chair: Kensei KATSUOKA Speaker: Rieko OHARA					
18:30 -	Speaker: Rieko OHARA					
19:00 -				18:30-20:00 Welcome Reception		
19:30 -						
20:00 -						
20:30 -						
21:00 -			1	l		



DAY2 Wednesday, November 1

	Annex Hall 2	Room C-1	Room C-2	Annex Hall 1	Annex lobby	Room 103
8:00 -						7:40- IFHRS
8:30 -						Meeting
9:00 -						
9:30 -	Concurrent Session 1 "Stem Cells and the Niche"	Concurrent Session 3 "Alopecia Areata (Research)"	Concurrent Session 5 "Hair Transplantation Visiting Old, Learn New"			
10:00 -	Chairs: Emi K. NISHIMURA, Mayumi ITO, George COTSARELIS	Chairs: Taisuke ITO, Yuval RAMOT, Bianca Maria PIRACCINI	Chairs: Akio SATO, Yoshinori ISHII, Masahisa NAGAI			
10:30 -	addige do for the Elio	Coffee Break	Widdinga TV Carti			
11:00 -	Plenary Session 1 "Clinical"					
11:30 -	Chairs: Ryoji TSUBOI, Maria HORDINSKY, Abraham ZLOTOGORSKI					
12:00 -	EHRS John Ebling Award					
12:30 -	Luncheon Seminar 1 (Aderans)	Luncheon Seminar 2 (Unilever)	Luncheon Seminar 2			
13:00 -	Chairs: Satoshi ITAMI, Valerie RANDALL	Chair: Luis A. GARZA	(Relay)	Posters		
13:30 -	Keynote Lecture 1 Chairs:				Exhibition	
14:00 -	Hideoki OGAWA, Won Soo LEE, Rodney D. SINCLAIR					
14:30 -	ricancy E. CirteEr iii t	Concurrent Session 4				
15:00 -	Concurrent Session 2 "Androgenetic Alopecia"	"Hair Follicle Morphology and	Concurrent Session 6 "Hair Transplantation" Chairs:			
15:30 -	Chairs: Shigeki INUI, Gwang Seong CHOI, Annika VOGT	Cosmetology" Chairs: Jiro KISHIMOTO, Ohsang KWON, Leslie JONES	Kuniyoshi YAGYU, Andrea MARLIANI, Piero TESAURO			
16:00 -			Chairs: Kenneth WASHENIK,			
16:30 -	Afternoon Seminar (MSD)	Sponsored Seminar (Aderans / Artnature) "Wig Service in Japan"	Robert LEONARD, Jr.			
17:00 -	Chair: Taisuke ITO	Chairs: Shigeki INUI, Yutaka NARISAWA				
17:30 -				Free Discussion		
18:00 -				(Odd)		
18:30 -						
19:00 -						
19:30 -						
20:00 -						
20:30 -						
21:00 -						

	DAY3	Thurs	day, November	2		
	Annex Hall 2	Room C-1	Room C-2	Annex Hall 1	Annex lobby	Room 103
8:00 -	Morning Seminar 1 (P&G)					
8:30 -	Chairs: John GRAY, Jeni THOMAS					
9:00 - 9:30 -	Concurrent Session 7 "Scarring Alopecia"	Concurrent Session 9 "Stem Cell and Tissue	Concurrent Session 12 "Hair Diseases, Endocrinology and			
10:00 -	Chairs: Kazutoshi HARADA, Andrew MESSENGER, Jerry SHAPIRO	Engineering" Chairs: Yasuyuki AMOH, Robert M. HOFFMAN, Shigaku IKEDA	Metabolism" Chairs: Motonobu NAKAMURA, Ralf PAUS,			
10:30 -		Coffee Break	Leona YIP			
11:00 - 11:30 -	Keynote Lecture 2 Chairs: Wilma F. BERGFELD, Jianzhong ZHANG					
12:00 -	Luncheon Seminar 3 (Shiseido)	Luncheon Seminar 4 (Taisho Pharmaceutical/ Taisho Toyama Pharmaceutical)				
12:30 -	Chairs: Shiro NIIYAMA, Jiro KISHIMOTO	Chairs: Seiji ARASE, Xingqi ZHANG				
13:00 -	Plenary Session 2 "Research"					
13:30 -	Chairs: Satoshi ITAMI, George COTSARELIS, Ulrike BLUME-PAYTAVI			Posters	Exhibition	
14:00 -	Concurrent Session 8	Concurrent Session 10	Concurrent Session 13		Exhibition	
14:30 -	"Hair Anti-Aging" Chairs:	"Diagnostic Techniques: Trichoscopy and Beyond"	"Hair and Regenerative Medicine"			
15:00 -	Sotaro KURATA, Ralph M. TRÜEB, Won Soo LEE	Chairs: Manabu OHYAMA, Chang-Hun HUH, Antonella TOSTI	Chairs: Kotaro YOSHIMURA, Sung-Jan LIN, Luis A. GARZA			
15:30 -		Coffee Break				
16:00 - 16:30 -	Concurrent Session 11 "New Horizon of Hair Disease Management	"Frontiers from the World" Selected Presentations	Concurrent Session 14 "Alopecia Areata" (Clinical)			
17:00 -	and Research" Chairs :Sotaro KURATA, Kenneth WASHENIK,	from Each Society Chairs: Weixin FAN, Ramon GRIMALT, Daniel ASZ-SIGALL,	Chairs: Norimitsu SAITO, Amos GILHAR, Woo Young SIM			
17:30 -	Yuliya OVCHARENKO	Juan FERRANDO	Woo roung one			I//IDO
18:00 -				Free		KHRS General Meeting
18:30 -				Discussion (Even)		
19:00 -						
19:30 -		Colo Dimensi				
20:00 -	Gala Dinner Grand Prince Hotel Kyoto, B2F Prince Hall 19:00-21:00		Hall			
20:30 -		13.00-21.00				
21:00						

	DAY4	Friday, November 3				
	Annex Hall 2	Room C-1	Room C-2	Annex Hall 1	Annex lobby	Room 103
7:00 -						
7:30 -						
8:00 -	Morning Seminar 2 (Kao Corporation)					
8:30 -	Chairs: Motomu MANABE, Mike PHILPOTT					
9:00 -				Poster Removing		
9:30 -	Concurrent Session 15 "Female Pattern Hair Loss"	Concurrent Session 16 "Hair Follicle Biology" Chairs:	Concurrent Session 17 "Genetics" Chairs:			
10:00 -	Chairs: Rie UEKI, Rodney D. SINCLAIR	Takashi MATSUZAKI, Mike PHILPOTT, Gill WESTGATE	Yutaka SHIMOMURA, Mazen KURBAN, Claire A. HIGGINS			
10:30 -		SHRS				
11:00 -	Coffee Break	Meeting	EHRS General Assembly		Exhibition	AHRWS Meeting
11:30 -	Luncheon Seminar 5 (GSK)					
12:00 -	Chairs: Gary ONG, Manabu OHYAMA					
12:30 -				Meet the Experts		
13:00 -	Closing Ceremony					
13:30 -						
14:00 -						
МЕМ	0					

Room C-2

Program

DAY1 (Tuesday, October 31)

Annex Hall 2

13:30-16:30 Learning Course for Residents and Beginners

Chair: Shigeki INUI (Osaka University Graduate School of Medicine, Japan)
Co-chairs: Taisuke ITO (Hamamatsu University School of Medicine, Japan)

Yutaka SHIMOMURA (Yamaguchi University Graduate School of Medicine, Japan)

Structure of the hair follicle: It is beautiful, but a little bit complicated

Yutaka SHIMOMURA

Yamaguchi University Graduate School of Medicine, Japan

LC-2 Genetic regulators of hair follicle development and cycling

Claire HIGGINS

Imperial College London, United Kingdom

LC-3 Alopecia areata

Taisuke ITO

Hamamatsu University School of Medicine, Japan

Lc-4 Primary cicatricial alopecias (PCA)

Matthew HARRIES

The University of Manchester, Salford Royal NHS Foundation Trust, Manchester, United Kingdom

LC-5 Congenital hair disorders

Mazen KURBAN

American University of Beirut, Lebanon

LC-6 Update on the post-finasteride controversy

Kenneth WASHENIK

New York University School of Medicine, United States

Styling without shedding: Novel topical formula reduces hair shedding by contracting the arrector pili muscle

Andy GOREN

University of Rome ("G. Marconi"), Italy

16:30-17:00 Coffee Break

17:00-17:40 Opening Ceremony

Moderators: Hideoki OGAWA, Ryoji TSUBOI, Satoshi ITAMI, Manabu OHYAMA

17:40-18:10 Special Lecture

Chair: Kensei KATSUOKA (Emeritus professor, Kitasato University, Japan)

Cultural history of the Japanese hair style

Rieko OHARA

Sodoreihou Kimono College, Japan

Annex Hall 1

18:30-20:00 Welcome Reception



DAY2 (Wednesday, November 1)

Annex Hall 2

Concurrent Session 1 9:00-10:30

Stem Cells and the Niche

Emi K. NISHIMURA (Tokyo Medical and Dental University, Japan)

Co-chairs: Mayumi ITO (The Ronald O. Perelman, New York University School of Medicine, United States)

George COTSARELIS (Milton B. Hartzell Professor and Chairman, University of Pennsylvania, Perelman School of Medicine,

United States)

Speaker

Reciprocal interactions between epidermal stem cells and their environment

Hironobu FUJIWARA

RIKEN Center for Developmental Biology, Japan

CS1-2 Would healing and hair follicle regeneration

Mayumi ITO

The Ronald O. Perelman Department of Dermatology, Department of Cell Biology, United States

Regulation of the hair follicle stem cell niche during hair growth, pigmentation and ageing

Carlos CLAVEL

A*Star Institute of Medical Biology, Singapore

10:30-10:40 Coffee Break

Plenary Session 1 10:40-11:40

Clinical

Chair: Ryoji TSUBOI (Tokyo Medical University, Japan)

Co-chairs: Maria HORDINSKY (University of Minnesota, Minneapolis, Minnesota, United States) Abraham ZLOTOGORSKI (Hadassah-Hebrew University Medical Center, Israel)

The role of sunscreen and facial skin care products in frontal fibrosing alopecia

William C. CRANWELL

Sinclair Dermatology, Victoria, Australia

Clinical evaluation of FGF5 inhibiting formulations for the treatment of hair loss in women and men

Dominic BURG Cellmid Limited. Australia

PS1-3 Folliculitis decalvans: A clinicopathological study of thirty-two cases

Masaki UCHIYAMA

Tokyo Medical University Japan

Comparison of the treatment outcome of oral tofacitinib with other conventional PS1-4 therapies in extensive refractory alopecia areata

Juna Won SHIN

Seoul National University Bundang Hospital, Korea

PS1-5 Alopecia areata like pattern: A histopathological pitfall in both diffuse and patchy alopecia

Curtis T. THOMPSON

Oregon Health & Sciences University, United States

11:40-12:05 EHRS John Ebling Award

Abraham ZLOTOGORSKI (President of European Hair Research Society, Hadassah-Hebrew University Medical Center, Israel)

Chair:

12:15-13:15 Luncheon Seminar 1

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Chair: Satoshi ITAMI (Osaka University Graduate School of Medicine, Japan)

Co-chair: Valerie RANDALL (Centre for Skin Sciences, University of Bradford, United Kingdom)

LS1-1 Prostaglandins and androgenetic alopecia

George COTSARELIS

University of Pennsylvania, United States

Revisiting the Warburg effect and the importance of hair follicle metabolism in health and disease

Mike PHILPOTT

Centre for Cell Biology and Cutaneous Research, Blizard Institute Barts and The London School of medicine and Dentistry, Queen Mary College London, United Kingdom

13:20-14:30 Keynote Lecture 1

Chair: Hideoki OGAWA (CEO Juntendo University, Japan)

Co-chairs: Won Soo LEE (Department of Dermatology, Yonsei Wonju University, Korea)

Rodney D. SINCLAIR (University of Melbourne, Epworth Hospital and Sinclair Dermatology, Australia)

Dissecting the hair follicle dermal stem cell lineage towards understanding their role in hair growth and hair loss

Jeff BIERNASKIE University of Calgary, Canada

KL1-2 Stem cells orchestrate hair follicle aging program

Emi K. NISHIMURA

Tokyo Medical and Dental University, Japan

14:30-16:00 Concurrent Session 2

Androgenetic Alopecia

Chair: Shigeki INUI (Osaka University Graduate School of Medicine, Japan)

Co-chairs: Gwang Seong CHOI (Department of Dermatology, Inha University College of Medicine, Korea)

Annika VOGT (Clinical Research Center for Hari and Skin Science, Department of Dermatology, Charite-University Medicine

Berlin, Germany)

Keynote Speaker CS2-1 Exploring andrologen signaling axis in androgenetic alopecia

Shigeki INUI

Osaka University Graduate School of Medicine, Japan

CS2-2 Recent update on the treatment of androgenetic alopecia

Gwang Seong CHOI Inha University, Korea

CS2-3 Post-finasteride syndrome

Ramon GRIMALT

Universitat Internacional de Catalunya, Spain

Proteomic analysis in dermal papilla (DP) from male androgenetic alopecia (AGA) after treatment with low level laser therapy

Ratchathorn PANCHAPRATEEP

Chulalongkorn University, King Chulalongkorn Memorial Hospital, Thailand

Topical application of siRNA against androgen receptor for treatment of androgenic alopecia and female pattern of hair loss

Elena FEINSTEIN

Quark Pharmaceuticals, United States

Long-term efficacy of finasteride in 801 Japanese men with androgenetic alopecia

Toshihiro YOSHITAKE

Kitasato University School of Medicine, Japan



16:10-17:10 Afternoon Seminar

Sponsored by MSD K.K.

Up to Date of Hair Science

Chair: Taisuke ITO (Hamamatsu University School of Medicine, Japan)

As-1 Strategies to promote vellus-to-terminal reconversion: Concepts & perspectives
Ralf PAUS

University of Manchester, United Kingdom

Ten-year efficacy of finasteride in 105 Japanese men with androgenetic alopecia

Akio SATO

Department of Regenerative Plastic Surgery, Kitasato University School of Medicine, Japan

Room C-1

9:00-10:30 Concurrent Session 3

Alopecia Areata (Research)

Chair: Taisuke ITO (Hamamatsu University School of Medicine, Japan)

Co-chairs: Yuval RAMOT (Center for Genetic Diseases of the Skin and Hair, Hadassah-Hebrew University Medical Center Jerusalem,

Israel)

Bianca Maria PIRACCINI (University of Bologna, Italy)

Preclinical evaluation of new therapies for alopecia areata using cell-transferred C3H/HeJ mouse model

Eddy Hsi Chun WANG Columbia University, United States

Keynote Speaker TCR analysis of single human intralesional CD8+ T-cells as first step towards the identification of pathogenic antigen(s) in alopecia areata

Marta BERTOLINI

University of Muenster, Germany

Resident dermal γδ1⁺T-cells operate as autoimmunity-promoting stresssentinels in human skin: Relevance for alopecia areata

Youhei UCHIDA

University of Muenster, Germany

cs3-4 Identification of autoantigens in the mouse model of alopecia areata

Christina I. TEJEDA

Columbia College of Physicians and Surgeons, United States

CS3-5 Alopecia density and extent (ALODEX) score, a method for the assessment of hair loss in alopecia areata

Elise A. OLSEN

Duke University Medical Center, United States

10:30-10:40 Coffee Break

12:15-13:15 Luncheon Seminar 2

Sponsored by Unilever

Exploring Dandruff & Scalp Health: A Comprehensive Approach

Chair: Luis A. GARZA (Johns Hopkins University, United States)

LS2-1 Dandruff and seborrheic dermatitis: Distinct causes for concern?

Luis A. GARZA

Johns Hopkins University, United States

LS2-2 Microbes and dandruff: Emerging understanding

Cheri CHU

Unilever R&D Shanghai, China

LS2-3 Technical approaches to controlling dandruff

Luisa COLLINS

Unilever R&D Port Sunlight, United Kingdom

14:30-16:00 Concurrent Session 4

Hair Follicle Morphology and Cosmetology

Universidade Federal Fluminense, Brazil

Chair: Jiro KISHIMOTO (Shiseido Global Innovation Center Regenerative Medicine Research, Japan)
Co-chairs: Ohsang KWON (Department of Dermatology, Seoul National University College of Medicine, Korea)
Leslie JONES (University of Melbourne, Department of Medicine, St. Vinsent's Hospital, Melbourne, Australia)

Keynote Speaker Hair cosmetics and ethnicity: Unveiling the secrets
Maria Fernanda R. GAVAZZONI

Characteristic structure of curved human hair and technology to relax the curved hair shape

Shinobu NAGASE Kao Corporation, Japan

CS4-3 Hair in different ethnicities

Norma Elizabeth VAZQUEZ-HERRERA Tecnologico de Monterrey, Mexico

What kind of surface property is felt as damaged hairs?

Minori KAKIZAWA Shiseido Co., Ltd., Japan

CS4-5 Nutraceutical promoters of autophagy prolongs human hair growth ex vivo

Benedetto GRIMALDI

Istituto Italiano Di Tecnologia, Italy

Pharmaceutical action of arachidonate 12-lipoxygenase inhibitors on S100A3 citrullination in human hair cuticles

Kenji KIZAWA

Biological Science Research Laboratory, Kao Corporation, Japan

16:10-17:10 Sponsored Seminar

Sponsored by Aderans Company Limited / Artnature Inc.

Wig Service in Japan

Chair: Shigeki INUI (Osaka University Graduate School of Medicine, Japan)

Co-chair: Yutaka NARISAWA (Saga University, Japan)

Wig for psychosocial quality of life of hair loss patients: Questionnaire-based evidence

Shiqeki INUI

Osaka University Graduate School of Medicine, Japan

On the advanced nature of Japanese hair industry and superiority of products / services

Atsumori HIRAI Artnature Inc., Japan

SS-3 Technologies of totally custom made wigs

Yuji HIRAHARA Aderans Co., Ltd., Japan

Room C-2

9:00-10:30 Concurrent Session 5

Hair Transplantation Visiting Old, Learn New

Chair: Akio SATO (Tokyo Memorial Clinic Hirayama, Japan)
Co-chairs: Yoshinori ISHII (Omiya Skin Clinic, Japan)

Masahisa NAGAI (Renaissance Clinic Fukuoka, Japan)

Significant clinical factors related to unexpected wide surgical strip scar

Hyo KANG

Miracle Hair Restoration Clinic, Korea

Room C-2



CS5-2 Hair transplantation in China

Wen Yu WU

Huashan Hospital, FuDan University, China

Consideration on FUE megasession for East Asian

Young Geun RYU Forhair Clinic Seoul, Korea

CS5-4 The art of hair restoration

Timothy P. CARMAN

La Jolla Hair Restoration Medical Center, United States

Keynote Speaker A new approach to hair cell therapy: Combining medical and scientific innovation in hair 'cloning'

Bessam FARJO

Farjo Hair Institute, United Kingdom

CS5-6 Nagai method state of the art technique beyond limits

Masahisa NAGAI

Renaissance Clinic Fukuoka, Japan

10:30-10:40 Coffee Break

CS5-5

12:15-13:15 Luncheon Seminar 2 (Relay)

14:30-16:30 Concurrent Session 6

Hair Transplantation

14:30-15:30

Chair: Kuniyoshi YAGYU (Kioicho Clinic, Japan)
Co-chairs: Andrea MARLIANI (University of Firenze, Italy)

Piero TESAURO (ISHRS member, Incoming President SITRI (Italian Society of Hair Science), SICPRE (Italian Society of

Plastic Surgery), AICPE, Italy)

Keynote Speaker CS6-1 Hair transplant and therapy: How and when can this combination work?

Piero TESAURO
Private Practice, Italy

Emerging therapies in the treatment of androgenetic alopecia

Kenneth WASHENIK

New York University School of Medicine, United States

CS6-3 The hair clock, or (to put it another way) why is hair growth cyclical?

Andrea MARLIANI University of Florence, Italy

15:30-16:30

Chair: Kenneth WASHENIK (New York University School of Medicine, United States)
Co-chair: Robert LEONARD, JR. (Leonard Hair Transplant Associates, United States)

Keynote Speaker

Tricoanalisis or microscopy in polarized light new perspectives for the study of the hair

Gaetano AGOSTINACCHIO

Studio Medico Dermatologico Agostinacchio, Italy

CS6-5 WITHDRAWN

Styling without shedding: Novel topical formula reduces hair shedding by contracting the arrector pili muscle

Andy O. GOREN

University of Rome ("G. Marconi"), United States

Cicatricial alopecia secondary to dermatoses: Is it appropriate to treat surgically?

Nilofer FARJO

Farjo Hair Institute, United Kingdom

DAY3 (Thursday, November 2)

Annex Hall 2			
7:50-8:50	Morning Seminar 1		
	Sponsored by P&G		
Chair: Co-chair:	John GRAY (P&G, Beauty, South Africa) Jeni THOMAS (P&G, Hair Care, United States)		
MS1-1	Hair fiber "quality of life" from scalp to tips: New insights & treatment strategies for pre- and post-emergent hair Jennifer M. MARSH, Jim R. SCHWARTZ The Procter & Gamble Company, Cincinnati, Ohio, United States		
MS1-2	Global view on extrinsic and intrinsic factors affecting hair fiber quality of life Ralph M. TRÜEB		

Center for Dermatology and Hair Diseases, and University of Zurich, Wallisellen (Zurich), Switzerland

9:00-10:30 Concurrent Session 7

Scarring Alopecia

Chair: Kazutoshi HARADA (Tokyo Medical University, Japan)
Co-chairs: Andrew MESSENGER (University of Sheffield, United Kingdom)
Jerry SHAPIRO (New York University School of Medicine, United States)

Keynote Speaker

CS7-1 Treatment of Cicatricial Alopecias

Jerry SHAPIRO

New York University School of Medicine, United States

CS7-2 Treatment of Cicatricial Alopecia

Wilma F. BERGFELD

Cleveland Clinic Foundation, United States

CS7-3 Frontal fibrosing alopecia: Is there an environmental cause?

Andrew G. MESSENGER

University of Sheffield, United Kingdom

CS7-4 Histopathological findings in affected and unaffected scalp areas of lichen planopilaris and frontal fibrosing alopecia

Isabella DOCHE University of Sao Paulo, Brazil

Dissecting cellulitis of the scalp: A case series in Taiwan and discussion on the pathogenesis

Chao Chun YANG

National Cheng Kung University, Taiwan

10:30-10:50 Coffee Break

10:50-11:30 Keynote Lecture 2

Chair: Wilma F. BERGFELD (Cleveland Clinic Foundation, United States)

Co-chair: Jianzhong ZHANG (Department of Dermatology Peking University People's Hospital Chinese Society of Dermatology,

KL2-1 Toward the treatment of permanent chemotherapy-induced alopecia

Ohsang KWON

Seoul National University College of Medicine, Korea

Room



11:40-12:40 Luncheon Seminar 3

Sponsored by Shiseido

Hair Follicle Regeneration, "Basic and Clinical Translation"

Chair: Shiro NIIYAMA (Department of Dermatology Toho University Ohashi Medical Center, Japan)

Co-chair: Jiro KISHIMOTO (Global Innovation Center, Shiseido Co., Ltd., Japan)

Integrated omics approaches to understand dermal papilla inductivity

Claire A. HIGGINS

Department of Bioengineering, Imperial College London, United Kingdom

Autologous cell-based therapy for hair loss using Dermal Sheath Cup Cells (DSCC). Basic concept and clinical research study in Japan

Jiro KISHIMOTO

Global Innovation Center, Shiseido Co., Ltd., Japan

12:50-13:50 Plenary Session 2

Research

Chair: Satoshi ITAMI (Osaka University Graduate School of Medicine, Japan)

Co-chairs: George COTSARELIS (University of Pennsylvania, Perelman school of Medicine, United States)

Ulrike BLUME-PEYTAVI (Department of Dermatology and Allergy, Charite Universitats Medicin Berlin, Germany)

PS2-1 Optical imaging for diagnostic indices in alopecia areata

Jessica LIN

University of California, Irvine, United States

PS2-2 After skin wounding, noncoding dsRNA coordinates prostaglandins and Wnts to promote regeneration

Luis A. GARZA

Johns Hopkins University, United States

Clinical and biometrological characterisation of female hair ageing: Monocentric, comparative study in young and elderly not alopecic women

Valerie MENGEAUD

Pierre Fabre Dermo cosmetique, France

Ps2-4 Hair follicles engage in chemosensation: Olfactory receptor OR2AT4 regulates human hair growth

Jeremy CHERET

Monasterium Laboratory, Germany

PS2-5 Three dimensional ultrastructural analysis of hair follicle dermal sheath cells

Haruyo YAMANISHI

Shiseido Global Innovation Center, Japan

14:00-15:30 Concurrent Session 8

Sponsored by P&G

Hair Anti-Aging

Chair: Sotaro KURATA (Beppu Garden-Hill Clinic, Japan)

Co-chairs: Ralph M. TRÜEB (Center for Dermatology and Hair Disease University of Zurich, Switzerland)

Won-Soo LEE (Department of Dermatology, Yonsei Wonju University, Korea)

Keynote Speaker

CS8-1 Medical and cosmetic treatments for aging male and female hair

Ralph M. TRÜEB

Center for Dermatology and Hair Disease University of Zurich, Switzerland

The mechanism of aging-associated hair graying and hair thinning: toward the discovery of pharmacological targets

Emi K. NISHIMURA

Tokyo Medical and Dental University, Japan

CS8-3 Key quest and strategy for anti-hair aging and anti-hair shaft aging

Won Soo LEE

Yonsei Wonju University, Korea

15:50-17:30 Concurrent Session 11

Sponsored by Aderans Company Limited

New Horizon of Hair Disease Management and Research

Chair: Sotaro KURATA (Beppu Garden-Hill Clinic, Japan)

Co-chairs: Kenneth WASHENIK (New York University School of Medicine, United States)

Yuliya OVCHARENKO (V. N. Karazin Kharkiv National University; Institute of Trichology, Ukraine)

Keynote Speaker

CS11-1

Hair follicle transit amplifying cells exhibit stem cell-like properties for regeneration after chemo- and radio-therapeutic injury

Sung Jan LIN

National Taiwan University, Taiwan

Elongation of anagen by red LED possiblly through paracrine mediators for dermal papilla

Shigeki INUI

Osaka University Graduate School of Medicine, Japan

Development of new treatment for chemotherapy induced alopecia - basic and clinical study -

Masafumi INOMATA

Oita University Faculty of Medicine, Japan

Incidence of permanent chemotherapy-induced alopecia among breast cancer patients: A five-year prospective cohort study

Danbee KANG

Center for Clinical Epidemiology, Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea

Retrospective review of triggers, demographics, and stress of patients diagnosed with telogen effluvium at a specialty alopecia clinic

Martina PORTER

Beth Israel Deaconess Medical Center, United States

Next generation drug delivery systemswhich parameters are associated with improved penetration in hair follicles?

Annika VOGT

Charite-University Medicine Berlin, Germany

CS11-7 OCT in inflammatory scalp deseases

Maria A. MARTINEZ

Universidad Nacional Autonoma de Mexico. Mexico

Room C-1

9:00-10:30 Concurrent Session 9

Stem Cell and Tissue Engineering

Chair: Yasuyuki AMOH (Kitasato University School of Medicine, Japan)

Co-chairs: Robert M. HOFFMAN (AntiCancer inc. University of California San Diego, United States)

Shigaku IKEDA (Juntendo University Graduate School of Medicine, Japan)

Keynote Speaker

CS9-1 Hair follicle-associated-pluripotent (HAP) stem cells

Robert M. HOFFMAN AntiCancer Inc. University of California San Diego, United States

Mesenchymal niche regulated regional epithelial regeneration

Ting CHEN

National Institute of Biological Sciences, Beijing, China

CS9-3 Self-organization of skin organoid with hair primordia formation in vitro

Mingxing LEI

University of Southern California, United States

Implanted HAP stem cells encapsulated in polyvinylidene fluoride membrane cylinders promote effective recovery of peripheral nerve injury

Koya OBARA

Kitasato University School of Medicine, Japan



Functional validation of candidate trichogenes identified from 3D-cultured human dermal papilla cells

Young K. SUNG

Kyungpook National University, Korea

10:30-10:50 Coffee Break

11:40-12:40 Luncheon Seminar 4

Sponsored by Taisho Pharmaceutical Co., Ltd.

Taisho Toyama Pharmaceutical Co., Ltd.

Management of Androgenetic Alopecia

Chairs: Seiji ARASE (Emeritus, Tokushima University, Japan)

Xingqi ZHANG (The First Affiliated Hospital of Sun Yat-sen University, China)

Towards improved treatment options for androgenetic alopecia (AGA): From PRP to a novel humanized mouse model of AGA

Amos GILHAR

Technion Israel Institute, Israel

LS4-2 Non-responders to oral medications in AGA

Chang Hun HUH

Seoul National University Bundang Hospital, Korea

14:00-15:30 Concurrent Session 10

Diagnostic Techniques: Trichoscopy and Beyond

Chair: Manabu OHYAMA (Kyorin University School of Medicine, Japan)
Co-chairs: Chang Hun HUH (Seoul National University Bundang Hospital, Korea)

Antonella TOSTI (Miller School of Medicine, University of Miami, United States)

Keynote Speaker

CS10-1 Trichoscopy: An update

Antonella TOSTI

University of Miami, United States

How to make full use of trichoscopy in practice?: Introduction of the diagnostic flow chart and tips to enhance the diagnostic accuracy

Misaki KINOSHITA-ISE

Kyorin University School of Medicine, Japan

CS10-3 Casts and pseudocasts

Isabella DOCHE

University of Sao Paulo, Brazil

CS10-4 Hair fungal infection: Precise diagnosis and therapeutic effect evaluation by dermoscopy and fluorescent staining

Yuping RAN

Sichuan University, Chengdu, China

CS10-5 Follicular map - a novel approach to quantitative trichoscopy

Michal KASPRZAK TrichoLAB, Poland

Optical coherence tomography for the investigation of frontal fibrosing alopecia

Norma Elizabeth VAZQUEZ-HERRERA

Tecnologico de Monterrev, Mexico

15:30-15:50 Coffee Break

15:50-17:30 "Frontiers from the World" - Selected Presentations

Chair: Weixin FAN (First Affiliated Hospital of Nanjing Medical University (Jiangsu Province Hospital), China)

Co-chairs: Ramon GRIMALT (Universitat Internacional de Catalunya UIC-Barcelona, Barcelona, Spain)

Daniel ASZ-SIGALL (Onco-Dermatology Clinic, National University of Mexico, Mexico)

Juan FERRANDO (Hospital Clinic and Barcelona University Medical School, Barcelona, Spain)

The clinical presentation of acute telogen effluvium

Xingqi ZHANG

The First Affiliated Hospital of Sun Yat-sen University, Guangzhou, China

SP-2 Trichoscopy of pigmented scalp

Fernanda TORRES

Dermatology in Private Practice, Rio de Janeiro, Brazil

SP-3 What's new in frontal fibrosing alopecia

Sergio VANO-GALVAN

Ramon y Cajal Hospital, University Hospital, Madrid, Spain University of Alcala, Spain

Hair follicle transplantation for the treatment of scalp of the linear scleroderma on the scalp- a case report

Weixin FAN

First Affiliated Hospital of Nanjing Medical University (Jiangsu Province Hospital), China

Frontal fibrosing alopecia vs lichen planopilaris in Singapore

lovce S.S. LEE

National Skin Centre, Singapore

Facial papules in frontal fibrosing alopecia: Beyond vellus hair follicle involvement

Rodrigo PIRMEZ

Santa Casa da Misericórdia do Rio de Janeiro, Brazil

SP-7 Infections and infestations of the scalp

Daniel ASZ-SIGALL

National University of Mexico, Mexico

Room C-2

9:00-10:30 Concurrent Session 12

Hair Diseases, Endocrinology and Metabolism

Chair: Motonobu NAKAMURA (University of Occupational and Environmental Health, Japan)

Co-chairs: Ralf PAUS (The Centre for Dermatology Research, Institute for Inflammation and Repair, University of Manchester, United

Kingdom)

Leona YIP (Consultant Dermatologist, Barton Specialist Centre, Australia)

Keynote Speaker CS12-1 Human diseases and mouse models

Motonobu NAKAMURA

University of Occupational and Environmental Health, Japan

The hair follicle as a chemosensory organ: Exploring the role of olfactory receptors in human hair biology

Ralf PAUS

The Centre for Dermatology Research, Institute for Inflammation and Repair, University of Manchester, United Kingdom

Efficacy of a nutritional supplement, standardized in fatty acids and phytosterols, on hair loss and hair health in both women and men

Federica ZANZOTTERA ROELMI HPC, Italy

Reversal of the hair loss phenotype by modulating the estradiol-ANGPT2 axis in the mouse model of female pattern hair loss

Yujiro ENDO

Lion corporation, Japan

A case of cantu syndrome, a congenital hypertrichosis with the similar condition to minoxidil use

Kentaro OHKO

Kochi Medical School, Kochi University, Japan



Association analysis between female pattern hair loss and iron deficiency in adults

Langin FU

Peking Union Medical College Hospital, China

10:30-10:50 Coffee Break

14:00-15:30 Concurrent Session 13

Hair and Regenerative Medicine

Chair: Kotaro YOSHIMURA (Jichi Medical University, Japan)

Co-chairs: Sung Jan LIN (Institute of Biomedical Engineering, National Taiwan University, Taiwan)

Luis A. GARZA (Johns Hopkins School of Medicine, United States)

Keynote Speaker Assembling of layer-by-layer dermal papilla spheres for hair follicle induction

Chia-Ching WU

National Cheng Kung University, Taiwan

CS13-2 Inflammatory factors in hair follicle regeneration

Yaojiong WU

Tsinghua University, China

CSI3-3 CWL080061, a novel Wnt signaling activator, in hair regeneration

Joo Young CHA

Drug Discovery Center, JW Pharmaceutical Co, Seoul, Korea

CS13-4 The role of hair follicles in dermal remodelling and scar reduction

Magdalena PLOTCZYK

Imperial College London, United Kingdom

Influences of oxygen tension in expansion culture of human dermal papillal sheath cells on hair regeneration

Koji KANAYAMA University of Tokyo, Japan

15:30-15:50 Coffee Break

15:50-17:20 Concurrent Session 14

Alopecia Areata (Clinical)

Chair: Norimitsu SAITO (Yokohama Rosai Hospital, Japan)

Co-chairs: Amos GILHAR (Skin Research Laboratory, Technion Israel Institute, Israel)

Woo Young SIM (Kyung Hee University, Korea)

Keynote Speaker

CS14-1 Future therapies for alopecia areata

Amos GILHAR

Technion Israel Institute, Haifa, Israel

CS14-2 Therapeutic response to various treatment for alopecia areata

Norimitsu SAITO

Yokohama Rosai Hospital, Japan

Treatment of pediatric alopecia areata with anthralin: A retrospective review of 37 cases

Wilma F. BERGFELD

Cleveland Clinic Foundation, Cleveland, Ohio, United States

CS14-4 Effectiveness of tofacitinib for alopecia areata

Woo Young SIM

Kyung Hee University Hospital at Gang-dong, Korea

Treatment of alopecia areata with the topical janus kinase inhibitor, tofacitinib 2% ointment: A pilot study of 10 patients

Brett KING

Yale University School of Medicine, United States

DAY4 (Friday, November 3)

Annex Hall 2

Morning Seminar 2 7:50-8:50

Sponsored by Kao Corporation

Epithelial-mesenchymal Interaction in Hair Follicle Development and Regeneration

Motomu MANABE (Akita University Graduate School of Medicine, Japan)

Mike PHILPOTT (Centre for Cell Biology and Cutaneous Research, Bilzard Institute, Barts and The London, United Kingdom)

MS2-1 Basic study to clinical phase, a fully functional organ regenerative therapy for hair follicle

Koh-ei TOYOSHIMA

RIKEN Center for Developmental Biology, Japan

MS2-2 Mesenchymal niche control of hair follicle formation, growth and regeneration

Principal Investigator, The Black Family Stem Cell Institute; Department of Cell, Developmental and Regenerative Biology; Department of Dermatology; Graduate School of Biomedical Sciences; Icahn School of Medicine at Mount Sinai, NY, United

Concurrent Session 15 9:00-10:30

Female Pattern Hair Loss

Chair: Rie UEKI (Juntendo Tokyo Koto Geriatric Medical Center, Juntendo University Faculty of Medicine, Japan) Co-chair: Rodney D. SINCLAIR (University of Melbourne, Epworth Hospital and Sinclair Dermatology, Australia)

Female pattern hair loss: Evaluation and diagnosis

Elise A. OLSEN

Duke University Medical Center, United States

Kevnote CS15-2 Treatment of female pattern hair loss

Rodney D. SINCLAIR

University of Melbourne and the Epworth Hospital, Australia

CS15-3 The characteristics of female pattern hair loss

Shuxia YANG

Peking University First Hospital, China

CS15-4 Prevalence of hair shedding among women

Andy O. GOREN

University of Rome ("G. Marconi"), United States

Comprehensive transcriptome profiling of balding and non-balding scalps in CS15-5 female pattern hair loss using next generation sequencing

Byung Cheol PARK Dankook University Hospital, Korea

10:30-11:15 Coffee Break

Luncheon Seminar 5 11:15-12:15

Sponsored by GlaxoSmithKline

Chairs: Gary ONG (Stiefel, a GSK Company, Singapore)

Manabu OHYAMA (Kyorin University School of Medicine, Japan)

Panelists: Bernadette ARCILLA (Stiefel, a GSK Company, Philippine)

Gary ONG (Stiefel, a GSK Company, Singapore)

Manabu OHYAMA (Kyorin University School of Medicine, Japan)

Shigeki INUI (Department of Regenerative Dermatology, Osaka University, Japan)

Meeting patient and physician treatment expectations in androgenetic alopecia

Gary ONG1), Bernadette ARCILLA2) 1) Stiefel, a GSK Company, Singapore

2) Stiefel, a GSK Company, Philippine

Room C-1

9:00-10:30 Concurrent Session 16

Hair Follicle Biology

Chair: Takashi MATSUZAKI (Shimane University, Japan)

Co-chairs: Mike PHILPOTT (Centre for Cell Biology and Cutaneous Research Bilzard Institute, Barts and The London School of

Medicine and Dentistry Queen Mary University London, United Kingdom)

Gill WESTGATE (Center for Skin Sciences, Faculty of Life Sciences, University of Bradford, United Kingdom)

Keynote Speaker

The Tao of skin appendage follicles and the application

Randall B. WIDELITZ

University of Southern California, Keck School of Medicine, United States

CS16-2 Hair stem cell regulation and regeneration

Chih Chiang CHEN

National Yang Ming University, Taiwan

CD13, a marker for onychofibroblasts within nail matrix onychodermis:
Comparison of its expression in the nail unit and in the hair follicle

Dong Youn LEE

Samsung Medical Center, Sungkyunkwan University, Korea

An important role of cutaneous lymphatic vessels in coordinating and promoting anagen hair follicle growth

Sunyoung YOON ETH Zurich, Switzerland

Human scalp hair follicles engage in and depend on autophagy for hair growth (anagen) maintenance

Jonathan A. HARDMAN

The Centre for Dermatology Research, University of Manchester, MAHSC, and National Institutes of Health Biomedical Research Center, United Kingdom

Room C-2

9:00-10:30 Concurrent Session 17

Genetics

Chair: Yutaka SHIMOMURA (Yamaguchi University Graduate School of Medicine, Japan)

Co-chairs: Mazen KURBAN (American University of Beirut, Lebanon)
Claire A. HIGGINS (Imperial College London, United Kingdom)

Keynote Speaker

Non-syndromic forms of hereditary hair diseases

Yutaka SHIMOMURA

Yamaguchi University Graduate School of Medicine, Japan

CS17-2 Insights into the genetics of hair diseases

Mazen KURBAN

American University of Beirut, Lebanon

CS17-3 Research on congenital hair loss disorders in China

Diagnostic algorithm and mutational studies of congenital hair loss disorders

Cheng ZHOU

Peking University People's Hospital, Beijing, China

A novel diagnostic hair feature observed under polarizing microscope in congenital keratinizing disorders including Netherton syndrome

Daisuke UTSUMI

University of the Ryukyus, Japan

To identify markers of non-scarring forms of alopecia on the basis of correlation analysis of growth factors and apoptosis factors

Fatima V. AZIMOVA

Republican Specialized Scientific and Practical Center of Dermatology and Venereology, Uzbekistan

Annex Hall 1

12:15-13:00 Meet the Experts

Maria HORDINSKY

University of Minnesota, Minneapolis, Minnesota, United States

Andrew MESSENGER

University of Sheffield, United Kingdom

Ralf PAUS

University of Manchester, United Kingdom

Mike PHILPOTT

Centre for Cell Biology and Cutaneous Research Bilzard Institute, Barts and The London School of Medicine and Dentistry Queen Mary University London, United Kingdom

Michael RENDL

Principal Investigator, the Black Family Stem Cell Institute (BFSCI) and Developmental and Regenerative Biology (CDRB) and Icahn School of Medicine at Mount Sinai (ISMMS), United States

Jerry SHAPIRO

The Ronald O. Perelman Department of Dermatology, New York University School of Medicine, United States

Rodney D. SINCLAIR

University of Melbourne, Epworth Hospital and Sinclair Dermatology, Australia

Randall B. WIDELITZ

University of Southern California, Keck School of Medicine, United States

Room C-1

Poster

P-006

Annex Hall 1

 DAY 2 : November 1
 Free Discussion (Odd)
 17:10-18:10

 DAY 3 : November 2
 Free Discussion (Even)
 17:45-18:45

01. Alopecia Areata (Clinical)

P-001	Complete regrowth of beard hair with ruxolitinib in an alopecia universalis patient Yuval RAMOT Hadassah - Hebrew University Medical Center, Israel
P-002	Transplanted hair follicles and their relative resistance to alopecia areata - What does this tell us? Angeline A. YONG National Skin Centre, Singapore
P-003	Sequential clinicopathological characterization of the response to multicycle systemic steroid pulse therapy for severe alopecia areata Masahiro FUKUYAMA Kyorin University School of Medicine, Japan

The long-term effect of platelet-rich plasma containing drug delivery system on chronic alopecia areata: A case report

Megumi TAKIKAWA New Tokyo Hospital, Japan

P-005
Treatment of multiple alopecia areata with contact immunotherapy;
Supportive usage of oral antihistamine and topical corticosteroid
Maya KAGA-KAMIJO

Juntendo University Graduate School of Medicine, Japan

Topical corticosteroids under occlusion for alopecia areata: Clinical effect and influence on intraocular pressure

Tomoko NOMIYAMA Shouwa Skin Clinic, Japan

Home-based contact immunotherapy with diphencyprone for alopecia areata is as effective and safe as hospital-based treatment Solam LEE

Yonsei University Wonju College of Medicine, Korea

Long-term prognosis of alopecia totalis and alopecia universalis, a longitudinal study with more than 10 years of follow-up

Yong Hyun JANG

Kyungpook National University School of Medicine, Korea

Initiation of triamcinolone acetonide and susceptibility of immunotherapy for alopecia totalis with body hair loss

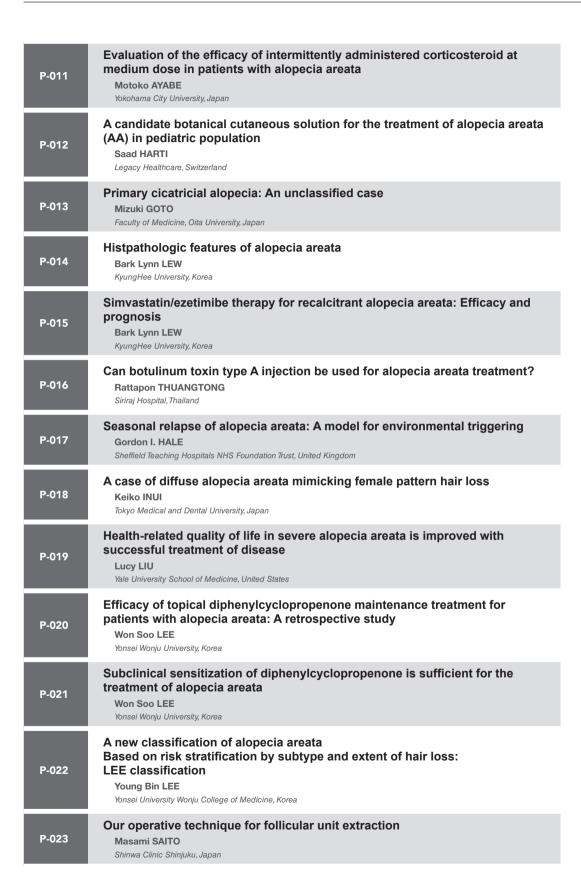
Takashi YOSHIMASU

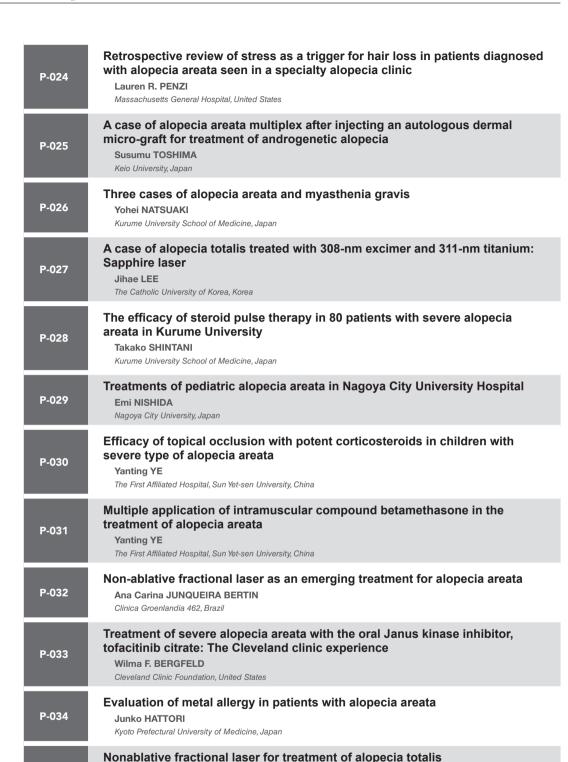
Wakayama Medical University, Japan

Treatment of severe alopecia areata with tofacitinib: A case series

Hyun Sun PARK

SMG-SNU Boramae Medical Center, Korea





Tsung Hua TSAI

P-035



02. Alopecia Areata (Research)

P-036	Desensitization of dust mite in modifying relapse and disease duration of alopecia areata in allergic individuals Zi Xun ZENG First Affiliated Hospital of Kunming Medical School, China
P-037	Correlation of hair cycle with local inflammatory infiltration in localized and diffuse subtypes of alopecia areata Yunxia LING Sun Yat-Sen University, China
P-038	Clinical significance of serum cold-inducible RNA-binding protein in alopecia areata Young LEE Chungnam National University, Daejeon, Korea
P-039	A new mouse model for alopecia areata induced by activation of innate immunity Young LEE Chungnam National University, Daejeon, Korea
P-040	Hair growth-promoting and molecular regulation of Salvia plebeia R.Br. extract in human dermal papilla cell Yilin ZHANG Chung-Ang University, Korea
P-041	SIRT1 activation ameliorates inflammation in the outer root sheath cells of hair follicles Jin PARK Chonbuk National University Medical School, Korea
P-042	Quantitative clinicopathological image analyses identify poor prognostic factors for systemic steroid pulse therapy in acute alopecia areata Yohei SATO Kyorin University School of Medicine, Japan
P-043	This abstract is about the analysis of the frequency distribution of polymorphism TNF-α gene among patients with alopecia areata Fatima V. AZIMOVA Republican Specialized Scientific and Practical Center of Dermatology and Venereology, Uzbekistan
P-044	The effect of human mesenchymal stem cell therapy on <i>in vitro</i> model of alopecia areata Jung Eun KIM The Catholic University of Korea, St. Paul's Hospital, Korea
P-045	Evaluations of relationship between alopecia areata and sleep disorder through questionnaire Hyojin KIM Inje University, Korea
P-046	Distribution of microscopic change of pulled-out hair in alopecia areata patient Hyojin KIM Inje University, Korea

P-047	Three-microneedle device decreases the pain with intralesional steroid therapy for alopecia areata Shogo TAKAHASHI Nihon University, Japan
P-048	Follicular unit extraction in cicartricial alopecia Alex GINZBURG Israel
P-049	Light-emitting diode antagonize the IFN-γ-induced inhibitory effects on human dermal papilla cells through JAK-STAT pathway Jung Eun KIM The Catholic University of Korea, St. Paul's Hospital, Korea
P-050	Epigallocatechin-3 gallate inhibits MHC expression: A potential mechanism to restore hair follicle immune privilege in alopecia areata Andrew G. MESSENGER University of Sheffield, United Kingdom
P-051	A complex extract of acanthopanax koreanum and crinum asiaticum promotes hair growth Guang Jin IM Sam Chung Dang Pharm. Co., Ltd, Korea
P-052	The effect of cutaneous cryotherapy on hair cycle Yukari MIZUKAMI Osaka City University Graduate School of Medicine, Japan
P-053	Quality of life in Korean patients with alopecia areata : A multicenter questionnaire-based study Gwang Seong CHOI Inha University, Korea
P-054	Alopecia areata and overt thyroid diseases: A nationwide population-based study in Korea Tae Young HAN Eulji General Hospital, Eulji University, Korea
P-055	Future prospects for the diagnostic study of IL-17 in alopecia areata Yuliya OVCHARENKO

Yuliya OVCHARENKO

V. N. Karazin Kharkiv National University; Institute of Trichology, Ukraine

03. Androgenetic Alopecia

P-056	Minoxidil dose response study in female pattern hair loss patients determined to be non-responders to 5% topical minoxidil Andy O. GOREN University of Rome ("G. Marconi"), United States
P-057	A study of low-level light therapy for the treatment of androgenetic alopecia in Thai patients
	Poonkiat SUCHONWANIT Ramathihodi Hospital Mahidol University Thailand



P-058	Prescription preferences of Spanish dermatologists for treating patients with androgenetic alopecia in 2017: A cross-sectional study Sergio VANO-GALVAN Ramon y Cajal Hospital, University of Alcala, Madrid, Spain
P-059	High-resolution MRI demonstrates association of scalp thickness with progression of androgenetic alopecia in 28 Japanese males Taro KOYAMA Men's Health Clinic Tokyo, Japan
P-060	Efficacy and tolerability of a combined topical treatment (CRLAB) in male and female androgenetic alopecia: An open Italian study Bianca Maria PIRACCINI University of Bologna, Italy
P-061	Androgenetic alopecia treated with intralesional finasteride, triamcinolone and growth factors, associated with fractional laser application Ana Carina JUNQUEIRA BERTIN Clinica Groenlandia 462, Brazil
P-062	Social selection favors offspring prone to the development of androgenetic alopecia Maja KOVACEVIC Clinical Hospital Center Sestre Milosrdnice, Croatia
P-063	Combination of fractional CO ₂ laser therapy and hair growth factors enhance hair growth for male androgenetic alopecia Lin Feng ZHUO Capital Medical University, China
P-064	Study on the role of DDX5 in human hair follicular dermal papilla cells Minkyu KIM Kyungpook National University, Korea
P-065	Testosterone-GPRC6A-Duox1 axis stimulates H2O2 production leading to apoptosis of hair follicle cells K. Nara PARK Ewha Womans University, Korea
P-066	Trichopigmentation is one of the decisions for androgenetic alopecia Djamila K. PULATOVA Republican specialized research and practical medical center of dermatology and venereology, Hair transplant department, Uzbekistan
P-067	Quality of life with alopecia areata versus androgenetic alopecia assessed using hair specific skindex-29 Young Bin LEE Yonsei University Wonju College of Medicine, Korea
P-068	Transplantation of cell enriched adipose tissue for follicular stimulation in early androgenetic alopecia: A randomized, controlled trial Eric J. DANIELS Kerastem Technologies, United States
P-069	Phase II study to evaluate efficacy and safety of pyrrolidinyl diaminopyrimidine oxide (PDPO) topical solution for androgenic alopecia Maria Abril MARTINEZ Universidad Nacional Autonoma de Mexico, Mexico

P-070	Characterisation of immortalized human balding and non-balding dermal papilla cells Jordan A. LEE Queen Mary University of London, United Kingdom
P-071	The efficacy of finasteride in women patients with female pattern hair loss: A meta-analysis Woo Young SIM Kyung Hee University Hospital at Gang-dong, Korea
P-072	A new topical WNT /beta-catenin activator in the treatment of men with male pattern hair loss Antonella TOSTI University of Miami, United States
P-073	Natural inhibitors of <i>in vitro</i> 5-alpha reductase in male hair follicle dermal papilla cells Alison D. PAWLUS Estee Lauder Companies, United States
P-074	A combination of fractional 1,927 nm thulium fiber laser and platelet-rich plasma in the treatment of male and female androgenetic alopecia Ratchathorn PANCHAPRATEEP Chulalongkom University, King Chulalongkom Memorial Hospital, Thailand
P-075	A near-infrared light device stimulated hair growth by enhancing blood flow and dermal papilla cell activity Takehiro NAKAGAWA Panasonic Corporation, Japan
P-076	Clinical study of male pattern hair loss patients during ten years (2007-2016) Byung In RO Seonam University College of Medicine, Goyang, Korea
P-077	Long-term efficacy and tolerability of 1mg finasteride daily administration in the treatment of androgenetic alopecia: Over 5-year follow-up Jung Won SHIN Seoul National University Bundang Hospital, Korea
P-078	The effectiveness of treatments for androgenetic alopecia: A network meta- analysis Kejia WU Fudan University, China
P-079	A proposal of an effective platelet-rich plasma (PRP) protocol for the treatment of androgenetic alopecia Juan FERRANDO

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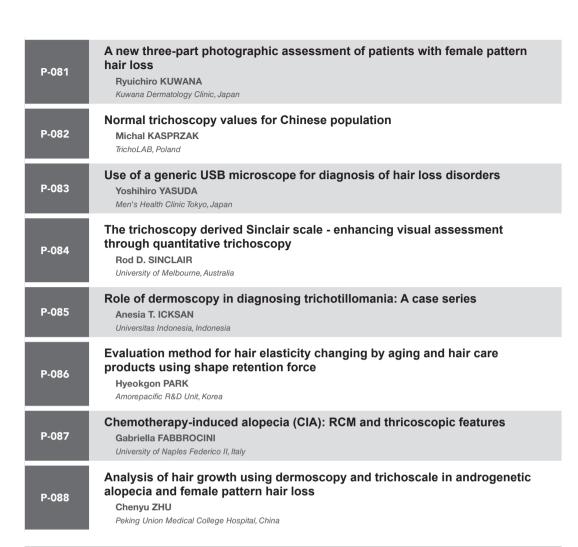


Trichoscopy of steroid-induced atrophy

Rodrigo PIRMEZ

Santa Casa da Misericordia do Rio de Janeiro, Brazil

Hospital Clínic, University of Barcelona, Spain



05. Female Pattern Hair Loss

P-089	Effects of a topical hair growth promoter containing 5% nanoxidil on hair shedding in women with early FPHL Antonella TOSTI University of Miami, United States
P-090	Chicken (a precocial bird) hair biology leads to development of a novel hair growth peptide (HGP) that improves hair growth in FPHL Toshio NAKAMURA Pharmafoods International Co. Ltd., Japan

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Hair analysis for Japanese patients with Hermansky-Pudlak syndrome type 1, 4, 6, and 9

Ken OKAMURA

Yamagata University Faculty of Medicine, Japan

Lanqin FU

Peking Union Medical College Hospital, China

P-092	Strikingly predominance of <i>LIPH</i> founder mutations in autosomal recessive woolly hair and hypotrichosis in Japan Kana TANAHASHI Nagoya University Graduate School of Medicine, Japan
P-093	Azathioprine-induced anagen effluvium and leukopenia associated with NUDT15 polymorphisms Hisashi NOMURA Keio University School of Medicine, Japan
P-094	Cicatricial alopecia in a girl with conradi-hünermann syndrome Maria Fernanda R. GAVAZZONI Universidade Federal Fluminense, Brazil
P-095	Analysis of genotype-phenotype correlations in autosomal recessive woolly hair/ hypotrichosis in 70 Japanese patients Rei YOKOYAMA Niigata University, Japan
P-096	Lichenoid folliculitis of the scalp in three cicatricial alopecia patients with lamellar ichthyosis Maria Fernanda R. GAVAZZONI Universidade Federal Fluminense, Brazil
P-097	Clinical and genetic analysis of four families with monilethrix and literature review

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P-098	New functional protein, HARE. Enhances hair regeneration through the proliferation, survival and activation of dermal papillae cells Dongku KIM Nuri Science Inc., Korea
P-099	Vascular stroma stem cells transplantation technique in trichology Anna KHALDIEIEVA Bogomolets National Medical University, Ukraine
P-100	Korean native plants: The potential treatment resources for hair loss Wookju JANG Skin Science Research Institute, Kolmar, Korea
P-101	Conditioned medium of <i>Agrobacterium tumefaciens</i> promotes hair growth in obese mice Takeo MINEMATSU The University of Tokyo, Japan
P-102	Novel skin chamber for rat ischemic flap studies in regenerative wound repair Tzu Chieh Cathy HUANG National Cheng Kung University, Taiwan
P-103	Therapeutic effects of growth factor cocktail including fibroblast growth factor 9 in patients with androgenetic alopecia Byung In RO Seonam University College of Medicine, Goyang, Korea



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P-109	Analysis of hair and serum zinc levels in hair loss Sang Seok KIM Hallym University Kangdong Sacred Heart Hospital, Korea
P-110	A case of trichorrhexia nodosa associated with low ceruloplasmin level Jiehyun JEON Korea University College of Medicine, Korea

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P-111	Decorin controls hair follicle cycle by regulating TGF- b2/smad signaling Lijuan ZHOU Zhejiang University, China
P-112	Transcription factor KROX20 marks hair shaft progenitor cells that create an SCF-dependent niche for hair pigmentation Chung Ping LIAO University of Texas Southwestern Medical Center, United States
	Gene expression profiling of the intact dermal sheath cup of human hair
P-113	follicles Shiro NIIYAMA Toho University Ohashi Medical Center, Japan

P-115	The grateful dead: Sequential nuclear and organelle destruction during hair development Michael G. DAVIS Procter and Gamble, United States
P-116	Investigation of mechanoregulation in cultured human dermal papilla cells involved in minoxidil-induced hair growth Hiroya TAKADA Nippon Medical School Graduate School of Medicine, Japan
P-117	BMP signaling regulation of melanogenesis, pigment transfer and melanocyte migration Wee Han Jamien LIM Nanyang Technological University, Singapore
P-118	A differentiation induction from human hair follicle bulge neural crest stem cells into melanocyte precursors by BMP-4 and a-MSH treatment Ho Jin KIM College of Medicine, University of Dong-A, Korea
P-119	Platelet-derived growth factor (PDGF)-AA promotes hair growth on human follicles <i>in vitro</i> Hyun Sik JEONG Kyungpook National University, Korea
P-120	TGF-β1 induces apoptosis of human follicular keratinocytes <i>via</i> regulation of mitochondrial reactive oxygen species production Solam LEE Yonsei University Wonju College of Medicine, Korea
P-121	Ultraviolet radiation alters lipid metabolism in human hair follicle Long Quan PI Institute of Hair and Cosmetic Medicine, Yonsei University Wonju College of Medicine, Korea
P-122	Hair follicle regeneration: Modulation of markers syntheses by dermal papilla
	Cells Daniel ABERDAM Inserm U976, France
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P-123 P-124	cells Daniel ABERDAM Inserm U976, France Perifollicular macrophage number and function changes during human hair follicle remodelling: A role for macrophages in hair growth control? Jonathan A. HARDMAN The Centre for Dermatology Research, University of Manchester, MAHSC, and National Institutes of Health Biomedical
	cells Daniel ABERDAM Inserm U976, France Perifollicular macrophage number and function changes during human hair follicle remodelling: A role for macrophages in hair growth control? Jonathan A. HARDMAN The Centre for Dermatology Research, University of Manchester, MAHSC, and National Institutes of Health Biomedical Research Center, Manchester, United Kingdom Nrf2 role in regulating Dkk-1 expression in human hair follicles Laura JADKAUSKAITE Centre for Dermatology Research, University of Manchester, MAHSC and NIHR Manchester Biomedical Research Centre,

P-127	Effects of adiponectin on the neofolliculogenesis of newborn mouse dermal cells Jebyeong CHAE Seoul National University Bundang Hospital, Korea
P-128	Biological effects of electrical epilation on human hair follicles and perifollicular skin ex vivo Marta BERTOLINI University of Muenster, Germany
P-129	Investigation into the role of HIF1A stabilisation in hair follicle metabolism Kous F. SHAH Queen Mary University of London, United Kingdom
P-130	Is the ORS the 'powerhouse' of the hair follicle? Understanding glycogen metabolism and the cori cycle in human hair follicle biology Katarzyna N. FIGLAK Blizard Institute, Queen Mary University of London, United Kingdom
P-131	Local cortisol activation in keratinocytes influences on mouse hair cycle Mika TERAO Osaka University Graduate School of Medicine, Japan
P-132	Identification of botanically derived FGF5 inhibiting compounds using <i>in vitro</i> methods Dominic BURG Cellmid Limited, Australia
P-133	Hydrogen peroxide suppresses hair growth through downregulation of β-catenin Jungyoon OHN College of Medicine, Seoul National University, Korea
P-134	A multi-scale model for hair follicles reveals skin-wide landscapes of hair regeneration Ji Won OH Kyungpook National University School of Medicine, Korea
P-135	Gene expression profiling of the dermal sheath cup cells of human hair follicles Yumiko ISHIMATSU-TSUJI Shiseido Global Innovation Center, Japan
P-136	A cell polarity protein, aPKCλ, regulates hair follicle regeneration after wounding Shin-Ichi OSADA Akita University Graduate School of Medicine, Japan
P-137	Panax ginseng extract antagonizes the effect of DKK-1-induced catagen-like changes on hair follicle Yongjoo NA Amorepacific R&D Center, Korea
P-138	Green tea (Camellia sinensis) stem cell extract inhibits hair loss and promote synthesis of collagen in scalp tissue Yongjoo NA Amorepacific R&D Center, Korea

P-139	Recombinant fibroblast growth factor-13 prolongs the telogen phase through its cellular internalization Fumiaki NAKAYAMA National Institutes for Quantum and Radiological Science and Technology, Japan
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P-142	Watercress extract upregulates the expression of R-spondin1 and the activity of ALP Masakazu HASHIMOTO Ichimaru Pharcos Co., Ltd., Japan
P-143	The role of cytoglobin as the forth member of the globin family in hair melanogenesis Koji SUGAWARA Osaka City University Graduate School of Medicine, Japan
P-144	5-Fluorouracil induce growth inhibition in dermal papilla cells by regulation of the level of β-catenin and FGF-7/-10 Hee Kyoung KANG Jeju National University, Korea
P-145	Defining the molecular signature of the hair follicle dermal sheath and its functional requirement for hair cycle progression during catagen Nicholas HEITMAN Icahn School of Medicine at Mount Sinai, United States
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P-149	Epidermal morphology in dandruff scalp skin Ranjit K. BHOGAL Unilever R&D Colworth, United Kingdom
P-150	Measuring damage to hair fibres post exposure to chemical treatments Naima ALI Imperial College London, United Kingdom

P-151	Effect of biothymus AC active on hair loss in telogen effluvium: Results of an open-label, pilot study Colombina VINCENZI Private Hospital Nigrisoli, Italy
P-152	Efficacy and safety of <i>Pulsatilla chinensis</i> extract for chronic telogen effluvium Jeong In JAE CHA Bundang Medical Center, CHA University, Korea
P-153	A new anti-aging treatment for scalp and hair Sabine PAIN BASF Beauty Care Solutions, France
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P-155	Ethnic difference of the hair and the role of the keratins in inner root sheath Hiroshi YOSHIDA Kao Corporation, Japan
P-156	IPL with short pulse width efficiently induces cell death other than apoptosis in pigmented follicular cells Ichitaro NIIBE Shimane University, Japan
P-157	Thermal and mechanical behavior of human hair fibers Karthik C. VENKATESHAN Birla Institute of Technology and Science, Hyderabad Campus, India
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Su Kyung PARK

Chonbuk National University Hospital, Korea

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Harunosuke KATO

Luce Clinic Ginza, Japan

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P-168	Three cases of cicatricial alopecia: Long term follow-up for the correct diagnosis Hiroko SASANO Juntendo University Graduate School of Medicine, Japan
P-169	Frontal fibrosing alopecia: What we can do beyond medical therapy? Bianca Maria PIRACCINI University of Bologna, Italy
P-170	Pemphigus decalvans: A pemphigus case dominant in the scalp with hair loss and less lesions in the other sites Teruki DAINICHI Kyoto University Graduate School of Medicine, Japan
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P-172	Association between end stage renal disease and central scalp hair loss Amy J. MCMICHAEL Wake Forest School of Medicine, United States
P-173	An analysis comparing central centrifugal cicatricial alopecia to other scarring diseases Amy J. MCMICHAEL Wake Forest School of Medicine, United States
P-174	Erosive pustular dermatosis: A manifestation of immunosenescence? A report of eight cases from North America Paradi MIRMIRANI The Permanente Medical Group, United States
P-175	Geometric alopecia associated with lupus erythematosus panniculitis of the scalp: A case series of 9 Korean patients



P-176	Alopecia neoplastica in a patient with breast carcinoma Nekma MEAH St. Helens and Knowsley Teaching Hospitals NHS Trust, United Kingdom
P-177	Suffering in women with frontal fibrosing alopecia Ademir C. LEITE JR Pontificia Universidade Catolica de Sao Paulo, Brazil
P-178	Syringomatous metaplasia associated with traction alopecia caused by a hair piece Toshiaki KOGAME Kyoto University Graduate School of Medicine, Japan
P-179	Frontal fibrosing alopecia: An emerging epidemic Paradi MIRMIRANI The Permanente Medical Group, United States
P-180	Histopathological and immunohistochemical assessment of patients with lichen planopilaris and frontal fibrosing alopecia Athena J. MANATIS-LORNELL Massachusetts General Hospital, United States
P-181	Aplasia cutis congenita in Korea: Single centre experience and literature review Moon Bum KIM Pusan National University Hospital, Korea
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P-183	Brunsting perry type pemphigoid causing secondary cicatricial alopecia in two patients Maria Fernanda R. GAVAZZONI Universidade Federal Fluminense, Brazil
P-184	Primary cicatricial alopecia in South Korea : A 10-year nationwide cohort study Jee Woong CHOI Ajou University School of Medicine, Korea
P-185	N-acetyl-GED, inhibits and partially reverses EMT in human bulge stem cells ex vivo: A new therapeutic strategy for scarring alopecias ? Jeremy CHERET Monasterium Laboratory, Germany
P-186	Chemotactic activity of neutrophils in folliculitis decalvans Taisuke ITO Hamamatsu University School of Medicine, Japan
P-187	Dermoscopic findings of frontal fibrosing alopecia in China Chenyu ZHU Peking Union Medical College Hospital, China
P-188	No difference between lichen planopilaris and central centrifugal cicatricial alopecia on light microscopic and immunohistochemical studies Curtis T. THOMPSON Oregon Health & Sciences University, United States

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Prevalence of centrifugal cicatricial alopecia in a cohort of African American women: Analysis of CCCA in the black women's health study

Yolanda M. LENZY

University of Connecticut Health Sciences, United States

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Infiltration of IL-17 producing mast cells in lichen planopilaris

Tatsuo MAEDA

Tokyo Medical University, Japan

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Seung Hwan PAIK

Asan Medical Center, University of Ulsan College of Medicine, Seoul, Korea

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High mobility group protein B2 (HMGB2) deficient mice develop increased ionizing radiation-induced hair graying by deteriorating DNA damage

Nobuhiko TAGUCHI

Hoyu Co., Ltd., Japan

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Maintenance and long-term expansion of murine skin epithelial stem cells by Wnt signaling pathway

Yukiteru OU.II

Nara Medical University, Japan

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Induction of skin-derived precursor cells from human induced pluripotent stem cells

Yoriko NAKAGIRI

Kao Corporation, Japan

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Mesenchymal cell-embedded collagen microgel for large-scale preparation of hair follicle germs

Tatsuto KAGEYAMA

Yokohama National University, Japan

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Gerd LINDNER

University for Technologies Berlin, Germany

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C-C chemokine ligand 2 (CCL2) regulated by alkaline phosphatase is involved in hair follicle induction

MiHee KWACK

School of Medicine, Kyungpook National University, Korea

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Large-scale production of hair follicle germ (HFGs) using spontaneous HFG formation *in vitro*

Chisa YOSHIMURA

Yokohama National University, Japan

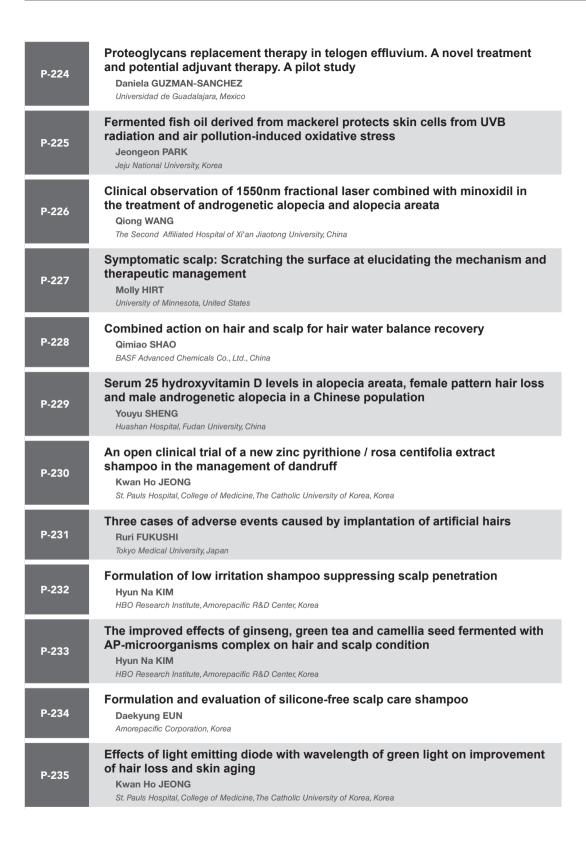


P-199	Coculture with human DP cells ehnances trichogenic activity of human ORS cells Soon Sun BAK Kyungpook National University, Korea
P-200	Long-term culture of hair follicle germs formed through cell self-organization Akihiro SHIMIZU Yokohama National University, Japan

15. Others

P-201	Manifest hair repigmentation associated with etretinate therapy Kotaro NAGASE Saga University, Japan
P-202	An underlying mechanism of hair loss in acrodermatitis enteropathica Youichi OGAWA University of Yamanashi, Japan
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P-205	Prophylactic treatment with AB-103 protects breast cancer patients from the development of chemotherapy induced alopecia Maja KOVACEVIC Venerology, Clinical Hospital Center Sestre Milosrdnice, Zagreb, Croatia
P-206	A study of the hair care formulations containing moringa oleifera seed extract as protecting hair from the city pollutions Xiaowei CHANG Henkel Investment Co., Ltd., China
P-207	Virus-associated trichodysplasia spinulosa: Case report Kaori KOGA Fukuoka University, Japan
P-208	Loose anagen hair syndrome: Treatment with systemic minoxidil characterised by marked hair colour change William C. CRANWELL Sinclair Dermatology, Victoria, Australia
P-209	Essential oils as a potential and natural tool to treat mild inflammation-induced hair loss: A review Tatiele KATZER Universidade de Santa Cruz do Sul, Brazil
P-210	A new model for understanding the psychosomatic phenomena in hair loss patients Ademir C. LEITE JR Pontificia Universidade Catolica de Sao Paulo, Brazil

P-211	How to treat school refusal in children with alopecia areata multiplex? Masako M. HORI Asahikawa Medical University, Japan
P-212	Evaluation of the impact of a topical lotion, CG428, on permanent chemotherapy induced hair and scalp disorders in cancer survivors: RCT Juhee CHO Center for Clinical Epidemiology, Samsung Medical Center, Sungkyunkwan University School of Medicine, Korea
P-213	Methotrexate induced hair repigmentation Nekma MEAH St. Helens and Knowsley Teaching Hospitals NHS Trust, United Kingdom
P-214	Moderate inflammation from thermal injury of CO₂ fractional laser stimulates hair regrowth by WNT/β catenin pathway in mice Lin Feng ZHUO Capital Medical University, China
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P-223	A clinical study of telogen effluvium in Mexico. Specific clinical patterns and associations are described in one hundred and fifty patients Daniela GUZMAN-SANCHEZ Universidad de Guadalajara, Mexico



P-236	Stress-induced senescence of dermal papilla cells restored by synthesized ceramide Jee Hye OH St. Pauls Hospital, College of Medicine, The Catholic University of Korea, Korea
P-237	Promotion effects of fermented fish oil on the hair growth Jung II KANG Jeju National University, Korea
P-238	Study on efficacy and safety of hair growth reduction with intense pulsed light (IPL) Masako YAMASAKI Panasonic Corporation, Appliances Company, Japan
P-239	Exploring the prescription rules of hair loss in traditional Chinese medicine and traditional Korean medicine using text mining analysis Kyuseok KIM Kyung Hee University, Korea