
Congress President

Ulrike Blume-Peytavi, MD, PhD

International Scientific Committee

Seiji Arase, Tokushima, Japan
Ulrike Blume-Peytavi, Berlin, Germany
Rolf Hoffmann, Freiburg, Germany
Leslie N. Jones, Belmont, Australia
Kensei Katsuoka, Kanagawa, Japan
Andrew Messenger, Sheffield, UK
Dominique van Neste, Tournai, Belgium
Hideoki Ogawa, Tokyo, Japan

Elise A. Olsen, Durham, USA
Michael P. Philpott, London, UK
Byung-in Ro, Seoul, Korea
Jerry Shapiro, Vancouver, Canada
Rodney Sinclair, Fitzroy, Australia
Kurt Stenn, Philadelphia, USA
Wolfram Sterry, Berlin, Germany
David Whiting, Dallas, USA

Congress Secretaries



Nathalie Mandt, MD



Annika Vogt, MD

Local Organizing Committee



Susanne Blind, Ulrike Blume-Peytavi, Betty Desaga, Sabine Fenske, Andreas Finner, Tanja Fischer, Sabrina Hadam, Ute Jacobi, Jürgen Lademann, Nathalie Mandt, Nina Otberg, Eva Peters, Martina Schulte, Christian Sommer, Wolfram Sterry, Karola Stieler, Hannelore Thomas, Annika Vogt, Hans-Jürgen Weigmann, Kristina Zappel

HAIR RESEARCH SOCIETIES

North American Hair Research Society (NAHRS)

Board Members	President	Jerry Shapiro, Canada
	Secretary/Treasurer	Janet Roberts
	Board Members	Anne Lucky
		Cheng-Ming Chuong
		Wilma Bergfeld
		Ron Trancik
		Elise Olsen (Ex officio)
		David Whiting (Consultant)

Society for Hair Science Research (SHSR)

Board Members	Past President	Hideoki Ogawa
	President	Seiji Arase
	Vice-President	Kensei Katsuoka
	Secretary/Treasurer	Ryoji Tsuboi

European Hair Research Society (EHRS)

Board Members	President	Ulrike Blume-Peytavi, Germany
	Secretary	Rolf Hoffmann, Germany
	Treasurer	Michael P. Philpott, UK
	Board Members	Andrew Messenger, UK
		Bianca M. Piraccini, Italy
		Pascal Reygagne, France

Australasian Hair and Wool Research Society (AHWRS)

Board Members	President	Leslie N. Jones
	Treasurer	Kevin Ley
	Secretary	George Rogers
	President Elect	Richard Shiell
	Past President	Rodney Sinclair

Korean Hair Research Society (KHRS)

Board Members	President	Byung-in Ro
	Vice President	Chull-Wan Ihm
	Secretary	Woo-Young Sim
	Scientific Secretary	Won-Soo Lee

Previous and Future Meetings

Year		Venue	President
1995	1 st IMHRS	Brussels, Belgium	Dominique van Neste
1998	2 nd IMHRS	Washington, USA	Ulrike Lichti, Jerry Shapiro David Whiting
2001	3 rd IMHRS	Tokyo, Japan	Hideoki Ogawa
2004	4 th IMHRS	Berlin, Germany	Ulrike Blume-Peytavi
2007	5 th IMHRS	Vancouver, Canada	Jerry Shapiro

Sponsors

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Greeting

Governing Mayor of Berlin
Klaus Wowereit



Berlin is the ideal place for medical and scientific conferences, since Germany's capital is not only an internationally renowned congress venue, but a city with a great medical tradition, an outstanding scientific and research landscape, and a unique potential represented by its universities, colleges, and private institutes.

We believe that your choice of Berlin as the venue for your important conference underscores our reputation as a "city of knowledge."

I would like to welcome all those attending the 4th Intercontinental Meeting of Hair Research Societies, and I wish all of you stimulating discussions, thought-provoking papers, and, hopefully, exciting new insights for your work.

You may also want to continue your discussions – or just relax after a stimulating day of conference sessions – in the special atmosphere of one of Berlin's first-rate restaurants, cafés, and bars. Or perhaps you would prefer a look at Berlin's wide-ranging cultural calendar, which has something for everyone with many highlights a day. I invite you to take a look around our city while you are here – you'll be glad you did.

A handwritten signature in black ink, which appears to read "Klaus Wowereit". The signature is written in a cursive, flowing style.

WELCOME ADDRESSES

Welcome

President
of the North American Hair Research Society
Jerry Shapiro MD, FRCPC



Dear Colleagues,

On behalf of the North American Hair Research Society (NAHRS), I welcome all of you to the Fourth Intercontinental Meeting of Hair Research Societies in Berlin. This is the most important scientific hair meeting. The entire spectrum of hair biology from in-depth basic genetic research to practical medico-surgical patient care is covered. Both well established experts and new rising stars in the field of trichologic medicine have come together in one place to discuss the science of hair. It is a meeting where scientists from academia and industry from all over the world can exchange and share ideas. This dialogue keeps our specialty a dynamic and rapidly evolving one.

Over the past fifteen years, with rapidly developing technology, there truly has been an explosion in new knowledge in hair biology. Highly advanced bench research is now being taken to the clinic faster than ever. Linking basic and clinician scientists is one of the main purposes of the meeting and will foster more efficient bench to bedside applications. Patients suffering from hair disorders will one day benefit from the cutting-edge technology and studies presented at this meeting in Berlin.

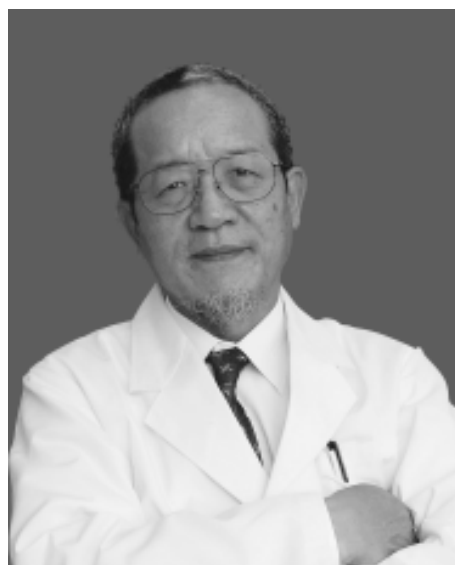
The NAHRS especially thanks the European Hair Research Society for hosting this historic hair meeting and for their meticulous lead in the planning of a scintillating educational program.

NAHRS looks forward to hosting the next Intercontinental Meeting of Hair Research Societies in Vancouver, Canada in 2007.

Jerry Shapiro, MD, FRCPC
President
North American Hair Research Society

Welcome Address

President
Society for Hair Science Research
Seiji Arase MD, PhD



It is my great pleasure and privilege to present our appreciation to Professor Ulrike Blume-Peytavi, the President of the 4th Intercontinental Meeting of Hair Research Societies, and especially to the distinguished members of EHRS who have prepared and organized this meeting in the historical Capital City of Berlin.

We will have a great chance, not only to receive a shower of up-to-date knowledge concerning hair and hair disease from outstanding scientists, but also to exchange our thoughts on informative, new and useful knowledge with the participants. Of course, we will have other chances to talk to each other, as well as promoting mutual understanding and friendship. Our profound relationship with EHRS, NAHRS, AHWRS and SHSR will allow us to participate together in Berlin. I, as the president of SHSR, do believe that this meeting will strengthen our knowledge and insight, not only by scientific discussions but also by interpersonal relationships.

The first meeting was held in Brussels, Belgium 1995, and then the meetings were held in Washington DC and Tokyo every three years. During the last nine years' history of the meeting, we have gradually established a strong friendship between the members of each society. However, if we wish that the meeting covers all fields of hair science, we have to support and encourage young dermatologists and scientists to unite and actively take the lead in this meeting. I am really looking forward to coming across a huge wave of young power at the meeting.

Again, on behalf of SHSR, my sincere appreciation for the President, all members of EHRS and their effort to achieve a successful meeting and I do believe our friendship will last forever.

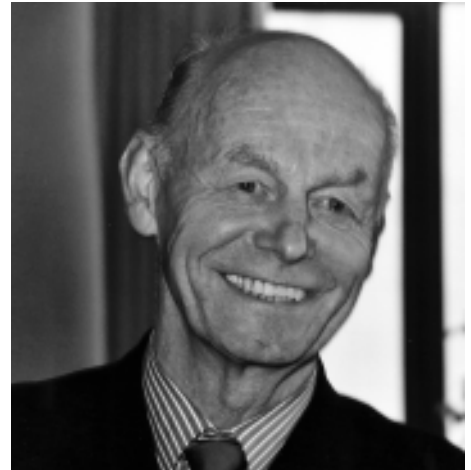
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Seiji Arase , MD, PhD
President, Society for Hair Science Research (SHSR)

WELCOME ADDRESSES

Welcome Address

Chief Executive Officer
Charité – Berlin University Medicine
Detlev Ganten, MD, PhD



Dear Congress Participants,

On behalf of the Charité - Berlin University Medicine, I would like to cordially welcome you to the 4th Intercontinental Meeting of Hair Research Societies here in Berlin. We are delighted that you chose Berlin for this international meeting, which brings together leading physicians, scientists and young researchers in the field of hair and associated disciplines from all over the world. The Charité – Berlin University Medicine is proud to host this important scientific meeting, and I welcome you all.

The Charité Hospital was originally founded in 1710 by the Prussian King Friedrich I as a facility for isolating plague victims and later served to train military surgeons. In 1727, Friedrich Wilhelm I named this hospital for the poor “Charité”, which then became the University Hospital of Humboldt University in 1829. After the Berlin Wall divided the city into East and West, the Charité, which is located in the eastern part, became the leading Medical Center in the former German Democratic Republic.

Since the Reunification of Germany in 1990, the goal of clinicians and scientists from both Humboldt University and the Free University of Berlin has been to reunite University Medicine in Berlin. The original “Charité Campus” in Mitte and the Rudolf Virchow Medical Center in close proximity in the western part of Berlin were the first campuses to merge. In 2003, all four medical campuses of Berlin merged to form the “Charité – Berlin University Medicine”: Campus Benjamin Franklin, formerly of the Free University of Berlin, Campus Mitte, Germany’s oldest medical treatment facility still located on its original site; Campus Virchow, the most modern hospital in this city and Campus Buch providing a link to an extensive national research facility, the Max Delbrück Center for Molecular Medicine.

Today, the “Charité - Berlin University Medicine”, whose name “charity” is both a virtue and a mission, is the largest university hospital in Europe with 3500 beds and a budget of 1.2 billion euros. The international orientation of the Charité - Berlin University Medicine has increasingly gained in importance over the past years, especially in the fields of treatment, medical education, advanced medical training and basic research work.

The 4th Intercontinental Meeting of Hair Research Societies provides you with an excellent opportunity to promote international cooperation, project coordination and organization in an international atmosphere.

I wish you a very pleasant stay here in Berlin and a highly interesting and fruitful scientific exchange!

A handwritten signature in dark ink, which appears to read 'Detlev Ganten'. The signature is fluid and cursive, with a large, sweeping loop at the end.

Detlev Ganten, MD, PhD
Chief Executive Officer
Charité – Berlin University Medicine

Welcome Address

President, European Hair Research Society (EHRS)
President, 4th Intercontinental Meeting of Hair Research Societies
Ulrike Blume-Peytavi, MD, PhD



Dear Colleagues,
Ladies and Gentlemen,

On behalf of the European Hair Research Society (EHRS) and as President of the **4th Intercontinental Meeting of Hair Research Societies**, I would like to extend a warm welcome to all congress participants here in Berlin. My team and I have endeavoured to make this meeting a milestone in the "World of Hair". Judging from the high number of submitted abstracts, received from colleagues, worldwide, and the vast sphere of topics presented from well-known experts and young talented researchers, we are proud to be able to present a truly intercontinental meeting. Scientists and clinicians, as well as representatives of cosmetic and pharmaceutical companies involved in hair care and treatment, are all joining us in Berlin today.

During this Hair2004-Meeting, you will be updated on recent findings in stem cell research, pigmentation, endocrinology, alopecia areata, hair morphology and cycling, follicular targeting, genetics and gene therapy, as well as hair surgery and epilation. I am convinced that this meeting will deepen our understanding of hair biology and show us future aspects in hair-related research and clinic.

We are all aware of the fact that such high-level meetings would never be possible without the help and support of industrial sponsors, therefore, I would like to express my sincere thanks to all our sponsors, who have not only given us their financial support but are also supporting us by their participation in the meeting.

Our social highlights will give you the chance to relax: we are looking forward to our Welcome Reception at the "Museum für Kommunikation", where you will have the opportunity of meeting your colleagues and friends in a – for Berlin – classical atmosphere. Our Gala Evening, in the Italian Courtyards of the Spandau Citadel, which were designed and built by the Italian architect, Rochus Guerini, Earl of Lynar, in 1580, will take us back into the past.

Last but not least, I would like to very warmly thank Dr. Nathalie Mandt and Dr. Annika Vogt, our Congress Scientific Secretaries, as well as all my co-workers, for their help and assistance. Also, I highly appreciate the valuable work accomplished by our congress organizers, DER-CONGRESS.

Above all, our gratefulness goes to the numerous participants willing to present their updated investigational and clinical findings on hair and hair diseases, during this meeting. Thank you all!

We are sure that this 4th Intercontinental Meeting of Hair Research Societies will be a highlight, and I wish all congress participants a stimulating exchange and new ideas for the future.

A handwritten signature in dark ink, appearing to read 'Ulrike Blume-Peytavi'.

Ulrike Blume-Peytavi, MD, PhD
President, European Hair Research Society (EHRS)
President, 4th Intercontinental Meeting of Hair Research Societies

PROGRAM AT A GLANCE

Thursday, June 17, 2004

Room	7:00	8:00	9:00	10:00	11:00	12:00	13:00
Ballroom							
Charité Campus			CC1 9:00-12:00				
Salon Dresden			CC2 9:00-12:00				
Charité Campus			CC3 9:00-12:00				
Charité Campus			CC4 9:00-12:00				
Poster Exhibition		Setting up of Posters 8:00-14:00					
Industrial Exhibition							
Museum für Kommunikation							

Friday, June 18, 2004

Room	7:00	8:00	9:00	10:00	11:00	12:00	13:00
Ballroom		W1 7:30-8:45		S3 9:10-10:30		S4 11:00-12:30	
Salon Humboldt		B1 7:30-8:45					Sat 1 12:30-13:45
Salon Durieux		B2 7:30-8:45					L3 12:30-13:45
Salon Heine I/II		B3 7:30-8:45					L1 12:30-13:45
Salon Dresden			Poster Discussion Even Numbers and Coffee Break 10:30-11:00				L2 12:30-13:45
Poster Exhibition							
Industrial Exhibition							
Spandau Citadel							

Saturday, June 19, 2004

Room	7:00	8:00	9:00	10:00	11:00	12:00	13:00
Ballroom		W2 8:00-9:20		S7 9:30-11:00		S8 11:30-13:00	W3 13:00-14:15
Salon Humboldt		B4 8:00-9:20					
Salon Durieux		B5 8:00-9:20					L6 13:00-14:15
Salon Heine I/II		B6 8:00-9:20					L5 13:00-14:15
Salon Dresden			Poster Discussion Even Numbers and Coffee Break 10:55-11:30				L4 13:00-14:15
Poster Exhibition							
Industrial Exhibition							

CC= Clinical Course, S= Plenary Session, W= Plenary Workshop, B= Breakfast Seminar, L= Luncheon Seminar, Sat= Satellite Symposium

PROGRAM AT A GLANCE

Room	14:00	15:00	16:00	17:00	18:00	19:00	20:00
Ballroom	S1 14:15-16:00		S2 16:30-18:00				
Charité Campus	Opening Ceremony						
Salon Dresden							
Charité Campus							
Charité Campus				Poster Discussion Odd Numbers And Coffee Break 16:00-16:30			
Poster Exhibition							
Industrial Exhibition							
Museum für Kommunikation					Welcome Evening 18:30-21:00		

Room	14:00	15:00	16:00	17:00	18:00	19:00	20:00
Ballroom	S5 14:00-15:45			S6 16:15-17:30	EHRS NAHRS AWHRS SHSR KHRS	Meeting Of Hair Research Societies 17:30- 18:15	
Salon Humboldt							
Salon Durieux							
Salon Heine I/II							
Salon Dresden							
Poster Exhibition				Poster Discussion Odd Numbers And Coffee Break 15:45-16:15		Bus Transfer 18:45-19:00 Departure	
Industrial Exhibition							
Spandau Citadel						Gala Evening 19:30-24:00	

Room	14:00	15:00	16:00	17:00	18:00	19:00	20:00
Ballroom		S9 14:30-15:30					
Salon Humboldt		Poster Awards Closing Remarks 15:30-16:00					
Salon Durieux							
Salon Heine I/II							
Salon Dresden							
Poster Exhibition		Removal of all Posters 15:00-18:00					
Industrial Exhibition							

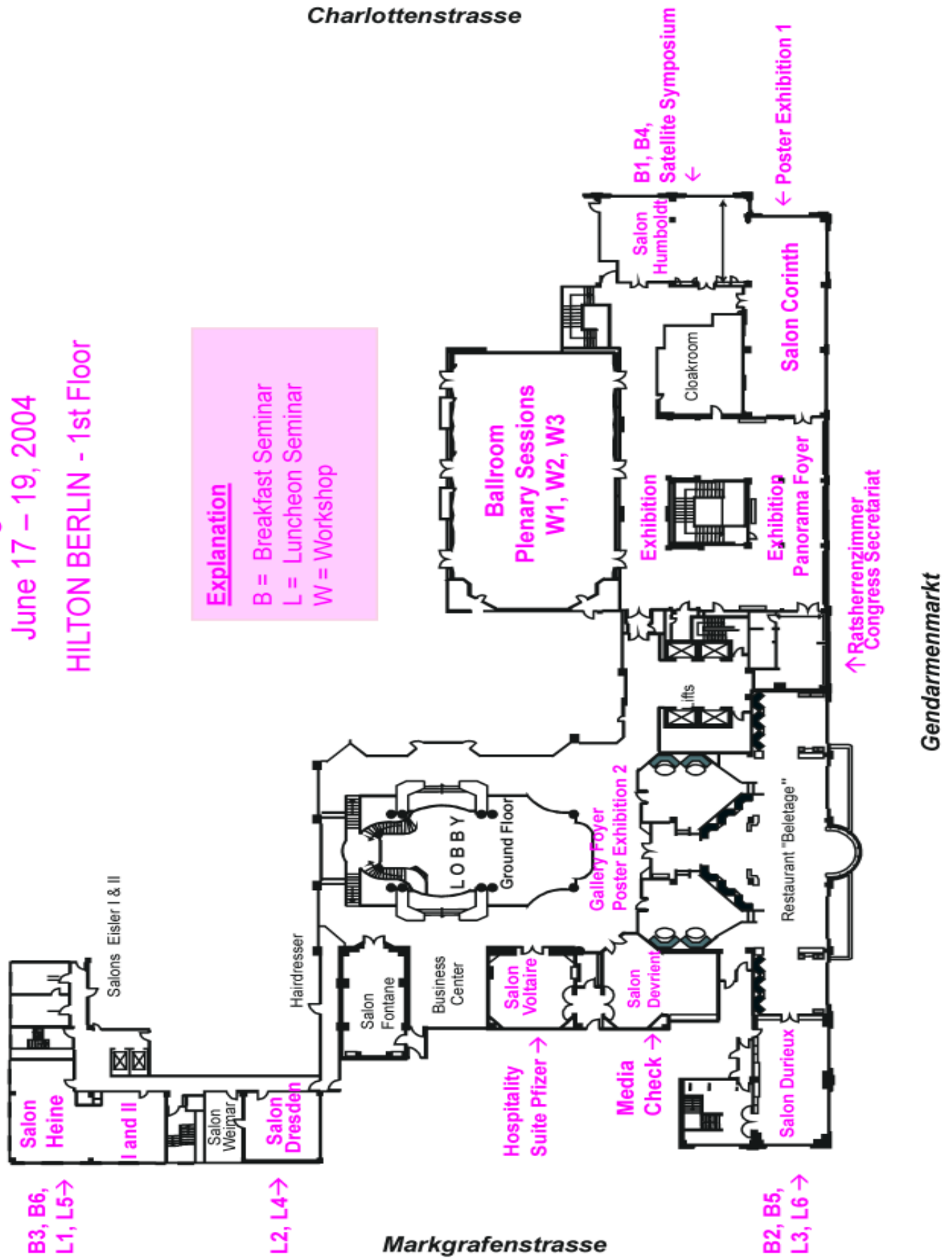
CC= Clinical Course, S= Plenary Session, W= Plenary Workshop, B= Breakfast Seminar,
L= Luncheon Seminar, Sat= Satellite Symposium

FLOOR PLAN

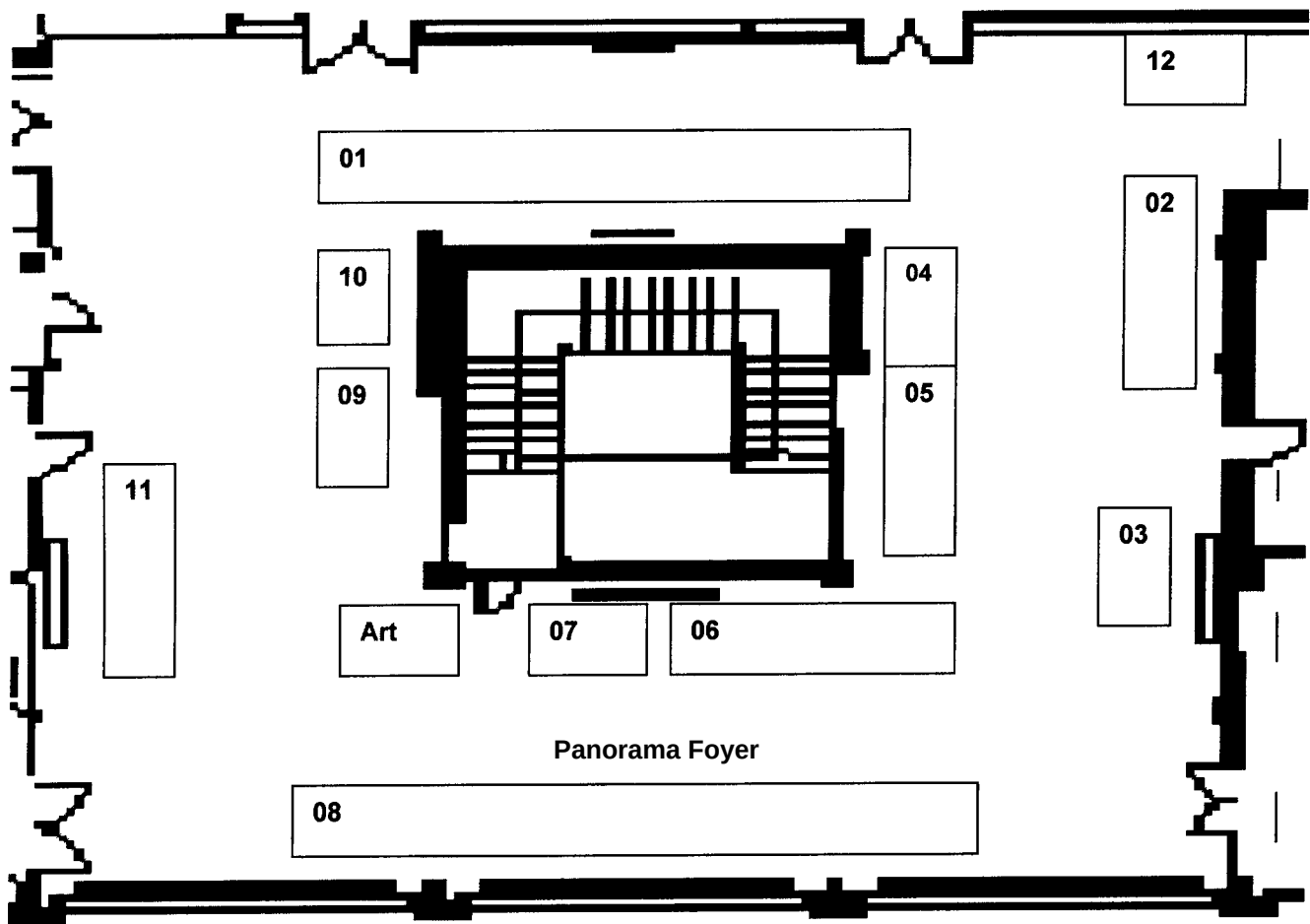
4th Intercontinental Meeting of Hair Research Societies

June 17 – 19, 2004

HILTON BERLIN - 1st Floor



INDUSTRIAL EXHIBITION



List of Exhibitors

Stand

Asclepion Laser Technologies GmbH	12
Canfield Imaging Systems	07
Cynosure GmbH	03
DEKA-LMS Vertriebs GmbH	05
Galderma Laboratorium GmbH	04
Merz Pharmaceuticals GmbH	02
MSD Sharp & Dohme GmbH	10
Pfizer Consumer Health Care	01
Pierre Fabre Dermo-Cosmétique	06
Procter & Gamble GmbH	11
Vichy-Cosmétique Active Deutschland GmbH	08
Wavelight Laser AG	09
Art exhibition Martin Blume	Art

The organizers of the 4th Intercontinental Meeting of Hair Research Societies are most grateful to the above mentioned companies for their participation in the congress.

THURSDAY, JUNE 17, 2004

*Clinical Course CC1

9:00 – 12:00

Histopathology in Humans

Chair: *David A. Whiting, Dallas, USA*
Rolf Hoffmann, Freiburg, Germany

*Charité
Kopsch'
Lecture hall*

9:00 – 9:30

Patient and Histological Slide Viewing

9:30 – 10:30

Histological Course Part I

10:30 – 10:50

Coffee Break

10:50 – 12:00

Histological Course Part II

*Clinical Course CC2

9:00 – 12:00

Histopathology in Mice

Chair: *Ralf Paus, Hamburg, Germany*
John P. Sundberg, Bar Harbor, USA

*Charité
Oskar Hertig
Lecture Hall*

*Clinical Course CC3

9:00 – 12:00

Diagnosis of Difficult Cases from Clinic to Therapy

Chair: *Jerry Shapiro, Vancouver, Canada*
Ramon Grimalt, Barcelona, Spain
Elise A. Olsen, Durham, USA
Pascal Reygagne, Paris, France
Rodney D. Sinclair, Fitzroy, Australia
Antonella Tosti, Bologna, Italy

*Charité
Internal Medicine
Lecture Hall*

9:00 – 9:05

Welcome

9:05 – 9:20

Tumors of the Scalp

Antonella Tosti, Bologna, Italy

9:20 – 9:35

Pattern Hair Loss

Elise A. Olsen, Durham, USA

9:35 – 9:50

Hirsutism

Jerry Shapiro, Vancouver, Canada

9:50 – 10:05

Trichotillomania

Janet Roberts, Portland, USA

10:05 – 10:20

Questions

10:20 – 10:30

Coffee Break

10:30 – 10:45

Viewing of Patients

10:45 – 11:00

Discussion of Cases

11:00 – 11:15

Cicatricial Alopecia

Jerry Shapiro, Vancouver, Canada

11:15 – 11:30

Rapid Hair Loss

Rodney Sinclair, Fitzroy, Australia

11:30 – 11:45

Pediatric Trichology

Ramon Grimalt, Barcelona, Spain

***Clinical Course CC4**

9:00 – 12:00

Epilation Today: Practical Aspects

Chair: *Michael Drosner, Munich, Germany*
Nathalie Mandt, Berlin Germany
Agneta Troilius, Malmö, Sweden
Tanja Fischer, Berlin Germany

Charité
Department of
Dermatology
Pinkus Library

9:00 - 10:00

Introduction

Michael Drosner, Munich, Germany

Physiology of the Hair Follicle

Nathalie Mandt, Berlin, Germany

Guidelines for Laser Epilation and Clinical Pictures

Michael Drosner, Munich, Germany

7 Years' Experience of Hair Removal with IPL-Clinical and Practical

Agneta Troilius, Malmö, Sweden

Discussion

10:00 - 10:15

Coffee Break

10:20 - 12:00

Hands-on Training – Demonstration of Laser Systems in Small Groups

Alexandrit Laser System

Nathalie Mandt, Berlin, Germany

Diode Laser System

Michael Drosner, Munich, Germany

IPL System

Agneta Troilius, Malmö, Sweden

Nd:YAG Laser System

Tanja Fischer, Berlin, Germany

Discussion and Closing Remarks

Michael Drosner, Munich, Germany

* Please note that these courses will be held on the Charité Campus. A bus transfer will be provided from the Hilton Hotel. Busses will leave at 08:30 from the Hilton Hotel Berlin. Return by bus from Robert-Koch-Platz at 12.15 to the Berlin-Hilton-Hotel

THURSDAY, JUNE 17, 2004

Opening Ceremony

14:00 – 14:15

Welcome Addresses

Ballroom

PLENARY SESSION S1

14:15 – 16:00

Stem Cells

Chair: George Cotsarelis, Philadelphia, USA
Cheng-Ming Chuong, Los Angeles, USA
Seiji Arase, Tokushima, Japan

Ballroom

Keynote Lecture S1.1

14:15 – 15:00

Stem Cells, Skin, Hair Follicle

Yann Barrandon, Geneva, Switzerland

Lecture S1.2

15:00 – 15:20

Molecular Definition of the Melanocyte Stem Cell Niche in the Hair Follicle

Masatake Osawa, Kobe, Japan

S1.3

15:20 – 15:40

Stem Cells in the Hair Follicle Dermis

Colin A. B. Jahoda, Durham, UK

S1.4

15:40 – 16:00

Epithelial Regeneration from Stem Cells of Hair Follicles Implanted into Tissue Engineered Dermal Templates

Harshad Navsaria, London, UK

16:00 – 16:30

Coffee Break

Industrial Exhibition

Poster Discussions (Odd Numbers)

PLENARY SESSION S2

16:30– 18:00

Common Disorders of the Hair and Scalp

Chair: Rodney D. Sinclair, Fitzroy, Australia
Wolfram Sterry, Berlin, Germany

Ballroom

S2.1

16:30- 16:45

Old Problems, New Perspectives: Common Hair and Scalp Disorders

Rodney D. Sinclair, Melbourne, Australia

S2.2

16:45 – 17:00

Approach to Clinical Diagnosis of Scalp Disorders

Boni E. Elewski, Birmingham, USA

S2.3

17:00 – 17:15

The Role of Sebaceous Gland Activity and Scalp Microfloral Metabolism in the Etiology of Common Scalp Conditions

Byung In Ro, Seoul, Korea

S2.4

17:15 – 17:30

Product Pharmacology and Medical Actives in Achieving Therapeutic Results

James R. Schwartz, Cincinnati, USA

S2.5

17:30 – 17:45

Factors Conducive to Scalp Skin and Hair Shaft Improvement

Zoe Diana Draelos, Wake Forest, USA

17:45 – 18:00

Discussion and Closing Remarks

WELCOME EVENING

18:30 – 21:00

Museum für Kommunikation (Details page 46)

Plenary Workshop W1

07:30 – 08:45

Hair Pigmentation

Chair: *Desmond J. Tobin, Bradford, UK*
Bruno Bernard, Clichy, France
Maria Hordinsky, Minneapolis, USA

Ballroom

W1.1

07:30- 07:45

Involvement Of BMP Signaling in the Control of Hair Pigmentation: Cross-Talk Between the BMP and Melanocortin Receptor Type 1 Signaling Pathways
Michael Fessing, Boston, USA

W1.2

07:45 – 08:00

Absence of TRP-2 In Bulb of Human Brown and Black Hairs
Stéphane Commo, Clichy, France

W1.3

08:00 – 08:15

Corticotropin-Releasing Hormone and Related Peptides Stimulate Follicular Melanocyte Behaviour in vitro and also Modulate Human Hair Fibre Elongation in Organ Culture
Söbia Kauser, Bradford, UK

W1.4

08:15 – 08:30

Human Hair Follicles Express the Genes for both Soluble and Membrane-Bound Stem Cell Factor (SCF)
Tayyeb Vafaei, Bradford, UK

W1.5

08:30 – 08:45

Melanocytes in Human Scalp Epidermis and Hair Follicles Exhibit Different eNOS, nNOS and Nitrotyrosine Expression Profiles that are Further Modulated During the Hair Cycle
H. M. Snowden, Bradford, UK

Breakfast Seminar B1

07:30 – 08:45

Diffuse Hair Loss in Women – What to do **Salon Humboldt**

Chair: *D. Hugh Rushton, London UK*
Gerhard Lutz, Wesseling, Germany

Breakfast Seminar B2

07:30 – 08:45

Pattern Hair Loss – Predictive Factors of Successful Management

Salon Durieux

Chair: *Andrew G. Messenger, Sheffield, UK*
Arthur Bertolino, New York, USA

B2.1

7:30 – 7:45

Effect of Minoxidil 2% Versus Cyproterone Acetate Treatment on Female Androgenetic Alopecia : A Randomised Trial to Select the Best Indications for Each Treatment
Pascal Reygagne, Paris, France

B2.2

7:45 - 8:00

Global Evaluation of Hair Loss in Male Androgenetic Alopecia: European (EU) Training and Validation Versus US Experts
Dominique Van Neste, Tournai, Belgium

B2.3

8:00 - 8:15

Minoxidil Sulfotransferase Activity in Human Scalp Skin and Platelets: Correlation with New Hair Counts After Treatment with Topical Minoxidil Solution
Andrew G. Messenger, Sheffield, UK

FRIDAY, JUNE 18, 2004

B2.4

8:15 - 8:30

Pattern Alopecia: What Clinical Features Determine the Response to Topical Minoxidil Treatment

Jan Rundegren, Helsingborg, Sweden

Salon Durieux

B2.5

8:30 - 8:45

Testosterone to Epitestosterone Ratio in Male Pattern Baldness

Woo-Young Sim, Seoul, Korea

Breakfast Seminar B3

07:30 - 08:45

Follicular Targeting and Penetration

Chair: *Jürgen Lademann, Berlin, Germany*
Robert M. Hoffmann, San Diego, USA
Kurt Stenn, Philadelphia, USA

Salon Heine III

B3.1

7:30 - 7:45

In vivo Method to Assess Active and Inactive Hair Follicles

Jürgen Lademann, Berlin, Germany

B3.2

7:45 - 8:00

The Hair Patch Assay: A Simple and Rapid Screen to Measure and Characterize Trichogenic Cells

Kurt Stenn, Philadelphia, USA

B3.3

8:00 - 8:15

Potential of Nestin-Expressing Hair Follicle Cells to Form Neurons and Blood Vessels

Robert M. Hoffmann, San Diego, USA

B3.4

8:15 - 8:30

Determination of the Amount of Topically Applied Substances Penetrated into the Orifices of Hair Follicles

Ute Jacobi, Berlin, Germany

B3.5

8:30 - 8:45

The Vellus Hair Follicle: A Reservoir for Topically Applied Substances

Nina Otberg, Berlin, Germany

PLENARY SESSION S3

09:10 - 10:30

Endocrinology of the Hair Follicle

Chair: *Adrian Pierini, Buenos Aires, Argentina*
Kensei Katsuoka, Kanagawa, Japan
Janet Roberts, Portland, USA

Ballroom

Plenary Lecture S3.1

09:10 - 09:40

The Pilosebaceous Unit: An Endocrine and Intracrine Organ

Robert L. Rosenfield, Chicago, USA

Lecture S2

09:40 - 10:00

Androgens in Mesenchymal Epithelial Interaction

Satoshi Itami, Osaka, Japan

S3.3

10:00 - 10:15

â-Endorphin: The Forgotten Hair Follicle Melanotropin

Desmond Tobin, Bradford, UK

S3.4

10:15 - 10:30

The Mechanisms Underlying Photoperiod and Pregnancy-Driven Wool Growth Cycles in Modern Sheep Breeds

Allan Pearson, Hamilton, New Zealand

10:30 - 11:00

Coffee Break

Industrial Exhibition

Poster Discussions (Even Numbers)

For the treatment of androgenetic alopecia in women.

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- Up to an additional 36 hairs per cm² during treatment⁴

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1. Price VH. N Engl Med 1999; 341 (13): 964-973. 2. Szpunar CA, Gardner JS, Spindler JR, Choi K, Lin CJ: Rogaine® topical solution post-marketing surveillance study. Upjohn Consumer Health Survey (Protocol M/74100223). Upjohn Technical Report 916093001, unpublished: April 1, 1993. 3. Price VH, Menefee E: Quantitative estimation of hair growth - I - Androgenetic alopecia in women - Effect of minoxidil. J Invest Dermatol 95(6): 683-687, 1990. 4. Pfizer, Data on file.

FRIDAY, JUNE 18, 2004

PLENARY SESSION S4

11:00 – 12:30

Hair Loss in Women

Chair: *Elise A. Olsen, Durham, USA*
Ulrike Blume-Peytavi, Berlin, Germany
Woo-Young Sim, Seoul, Korea

Ballroom

S4.1

11:00 – 11:30

Androgen-related Hair Disorders

Ulrike Blume-Peytavi, Berlin, Germany

S4.2

11:20 – 11:40

Age, Androgens and Hair Loss in Women

Andrew G. Messenger, Sheffield, UK

S4.3

11:45 – 12:00

Cicatricial Alopecia In Women: Potential Overlap with Female Pattern Hair Loss (FPHL)

Elise A. Olsen, Durham, USA

S4.4

12:00 – 12:15

HRT and the Modification of Subjective Hair Changes in the Post Menopausal Woman

Iaisha Ali, Oxford, UK

S4.5

12:15 – 12:30

Female Pattern Hair Loss and the Aromatase Gene

Shannon Harrison, Oxford, UK

12:30 – 13:45

Lunch Break

Industrial Exhibition

Poster Exhibition

Satellite Symposium

Luncheon Seminars

SATELLITE SYMPOSIUM

12:30 – 13:45

Dermocosmetic Aspects in Hair and Scalp by Vichy Deutschland

Chair: *Ralph Trueb, Zürich, Switzerland*

Salon Humboldt

Sat1.1

Dermocosmetic Aspects of Hair and Scalp

Antonella Tosti, Bologna, Italy

Sat1.2

Dermocosmetic Management in the Maintenance of Healthy Hair and Scalp

Ralph Trueb, Zürich, Switzerland

Sat1.3

Research Activities and Innovations in Hair and Scalp Care and Future Outlooks in Hair Research

Bruno A. Bernard, Clichy, France

LUNCHEON SEMINAR 1

12:30 – 13:45

Endocrinology of the Pilosebaceous Unit

Chair: *Christos C. Zouboulis, Berlin, Germany*
Michael P. Philpott, London, UK
Ryoji Tsuboi, Tokyo, Japan

Salon Heine III

L1.1

12:30 – 12:50

What are the Molecular Actions of Androgens in the Hair Follicle?

Michael P. Philpott, London, UK

L1.2 12:50 - 13:10	Role of Peroxisome Proliferators-activated Receptors Gamma and Delta in Sebocyte Differentiation <i>Robert L. Rosenfield, Chicago, USA</i>	<i>Salon Heine III</i>
L1.3 13:10 - 13:30	Pilosebaceous Unit: The Brain of the Skin <i>Christos C. Zouboulis, Berlin, Germany</i>	
L1.4 13:30 - 13:40	TGF-Beta-1 Promoter Regions Possibly Involved in Pathogenesis of Androgenetic Alopecia <i>Shigeki Inui, Osaka, Japan</i>	
L1.5 13:40 - 13:50	Evidence for a Glucocorticoid-dependent Mechanism for the Selective Action of Estradiol via Estrogen Receptor Beta in Cultured Human Scalp Dermal Papilla Cells <i>Louisa D. Nelson, Bradford UK</i>	
LUNCHEON SEMINAR 2 12:30 - 13:45	Hair Restoration: Surgery and Hair Pieces Chair: <i>Pierre Bouhanna, Paris, France</i> <i>Alex Ginzburg, Raanana, Israel</i>	<i>Salon Dresden</i>
L2.1 12:30 - 12:45	Management and Evaluation of Male and Female Alopecia before Hair Restoration <i>Alex Ginzburg, Haifa, Israel</i>	
L2.2 12:45 - 13:00	Hair Transplant in Scarring Alopecia <i>Alex Ginzburg, Haifa, Israel</i>	
L2.3 13:00 - 13:15	Micrograft Indications for the Scalp and the Body Hair <i>Pierre Bouhanna, Paris, France</i>	
L2.4 13:15 - 13:30	Eyebrow Transplantation <i>Selma Sönmez Ergün, Istanbul, Turkey</i>	
L2.5 13:30 - 13:45	Hair Transplant Surgery for Alopecia in Black Women <i>Valerie D. Callender, Mitchellville, USA</i>	
L2.6 13:30 - 13:45	The Multifactorial Classification Used in Current Practice of Male and Female Hair Restoration <i>Pierre Bouhanna, Paris, France</i>	
LUNCHEON SEMINAR 3 12:30 - 13:45	Tissue Engineering – In Vitro Models Chair: <i>Valerie A. Randall, Bradford, UK</i> <i>Kensei Katsuoka, Kanagawa, Japan</i> <i>Annika Vogt, Berlin, Germany</i>	<i>Salon Durieux</i>
L3.1	Introduction to Tissue Engineering and the Hair Follicle <i>Valerie A. Randall, Bradford, UK</i>	
L3.2	Stem Cell Potential of Adult Hair Follicle Dermal Cells <i>Gavin D. Richardson, Durham, UK</i>	
L3.3	Regeneration of Hair Follicles using Mouse Embryonic Stem Cells <i>Motonobu Nakamura, Kyoto, Japan</i>	
L3.4	Keratinocyte Stem Cells: Identification and Isolation Aspects <i>George Cotsarelis, Pennsylvania, USA</i>	

FRIDAY, JUNE 18, 2004

PLENARY SESSION S5

14:00 – 15:45

Genes and Gene Therapy

Chair: Valerie A. Randall, Bradford, UK
Jean-Jacques Stene, Brussels, Belgium
Won-So Lee, Wonju, Korea

Ballroom

JOHN EBLING LECTURE

S5.1

14:00 – 14:45

With the support of PFIZER

The Hair in Clinical Genetics

Rudolf Happle, Marburg, Germany

Plenary Lecture S5.2

14:45 – 15:15

Follicular Cloning and Gene Therapy

Angela M. Christiano, New York, USA

S5.3

15:15 – 15:30

Hypotrichotic Desmosomal-Associated Genotrichoses

Abraham Zlotogorski, Jerusalem, Israel

S5.4

15:30 – 15:45

Mouse Models of Alopecia: Helpful Tools for the Identification of Genes Involved in Human Hair Loss Syndromes

Jorge Frank, Aachen, Germany

15:45 – 16:15

Coffee Break

Industrial Exhibition

Poster Discussions (Odd Numbers)

PLENARY SESSION S6

16:15 – 17:30

Beautification: Hair Replacement and Hair Epilation

Chair: Boni Elewski, Birmingham, USA
Jerry Shapiro, Vancouver, Canada
Agneta Troilius, Malmö, Sweden

Ballroom

Plenary Lecture S6.1

16:15 – 16:45

When is Hair Transplanting a Reasonable Therapeutic Option for Hair Loss and What Can Be Expected From It

Walter P. Unger, New York, USA

Plenary Lecture S6.2

16:45 – 17:15

Epilation Today. Where Are We Now?

Christine Dierickx, Boom Belgium

S6.3

17:15 – 17:30

Paradoxical Hypertrichosis and Pseudo- Hypertrichosis Post Laser Hair Removal

Abdulmajeed Alajlan, Vancouver, Canada

MEETING OF THE HAIR RESEARCH SOCIETIES

17:30 – 18:15

AHWRS

EHRS

KHRS

NAHRS

SHSR

Salon Durieux

Ballroom

Salon Dresden

Salon Humboldt

Salon Heine I/II

GALA EVENING

18:45 - 19:00

Bus transfer from the Hilton Hotel to the Spandau Citadel

19:30 – 24:00

Italian Courtyards, Spandau Citadel (Details page 46)

PLENARY WORKSHOP W2

08:00 – 09:20

Alopecia Areata

Ballroom

Chair: *Vera Price, San Francisco, USA*
Pia Freyschmidt-Paul, Marburg, Germany
Amos Gilhar, Haifa, Israel

W2.1

8:00 – 8:14

Regulatory T-Cells in Autoimmune Diseases and their Potential Role in Alopecia Areata

Kevin McElwee, Vancouver, Canada

W2.2

8:14 – 8:28

Searching for Susceptibility Genes in Alopecia Areata

Angela Christiano, New York, USA

W2.3

8:28 – 8:42

Neurotrophins in Autoimmune Disease: Implications for Alopecia Areata

Vladimir A. Botchkarev, Michael Fessing, Boston, USA

W2.4

8:42 – 8:56

Alopecia Areata Resistance in INF-Gamma and II-2 Knockout Mice

Pia Freyschmidt-Paul, Marburg, Germany

W2.5

8:56 – 9:10

Treatment of Alopecia Areata with Anti-Interferon Gamma

Natalya M. Sharova, Moscow, Russia

W2.6

9:10 – 9:20

Genetic Mapping in Alopecia Areata

Hans Christian Hennies, Marburg, Germany

BREAKFAST SEMINAR B4

08:00 – 09:20

Mapping of Genetic Hair Diseases

Salon Humboldt

Chair: *Jorge Frank, Aachen, Germany*
Abraham Zlotogorski, Jerusalem, Israel

B4.1

8:00 – 8:15

Hypotrichosis Simplex of the Scalp is Caused by Nonsense Mutations in the Corneodesmosin Gene

Elon Pras, Tel Hashomer, Israel

B4.2

8:15 – 8:30

Clinical and Pathological Correlations in Genetically Distinct Forms of Atrichia

Abraham Zlotogorski, Jerusalem, Israel

B4.3

8:30 – 8:45

Mutation in the Desmoglein 4 Gene Underlie Localized Autosomal Recessive Hypotrichosis in Humans, Rats And Mice

Amalia Martinez-Mir, New York, USA

B4.4

8:45 – 8:55

A Genetic Locus for Pili Annulati

Jack Green, Melbourne, Australia

B4.5

8:55 – 9:05

A Gene Locus Responsible for Pili Annulati Maps to Chromosome 12Q24.32-24.33

Kathrin A. Giehl, Munich, Germany

SATURDAY, JUNE 19, 2004

B4.6

9:05 – 9:15

Genetic Analysis of HLA-DR/-DQ/NOTCH4/-B in Alopecia Areata Reveals more than one Susceptibility Haplotype within the MHC Region
Rachid Tazi-Ahnini, Sheffield, UK

Salon Humboldt

B4.7

Congenital Alopecia and Nail Dystrophy with Severe T-Cell Immunodeficiency: A Unique Phenotype of a Misdiagnosed Entity?
Jorge Frank, Aachen, Germany

BREAKFAST SEMINAR B5

08:00 – 09:20

Mesenchymal-Epithelial Interaction
 Chair: *Colin A. B. Jahoda, Durham, UK*
Seiji Arase, Tokushima, Japan

Salon Durieux

B5.1

8:00 – 8:10

Epithelial-Mesenchymal Interactions between Hair Follicle Stem Cells And Dermal Papilla Cells: A Genechip Analysis
Cecilia Roh, Houston, USA

B5.2

8:10 – 8:20

Interactions between the Epidermis and Dermal Papilla *in vitro*
Alessandro Amici, Chiba, Japan

B5.3

8:20 - 8:45

Epithelial-Mesenchymal Regulation of Feather Follicular Stem Cells
Chen-Ming Chuong, Los Angeles, USA

B5.4

8:45 – 9:05

Signaling from Dermal Papilla Cells
Jiro Kishimoto, Yokohama, Japan

BREAKFAST SEMINAR B6

08:00 – 09:20

Neuroendocrinology and Neuroimmunology
 Chair: *Vladimir A. Botchkarev, Boston, USA*
Ralf Paus, Hamburg, Germany
Eva M. J. Peters, Berlin, Germany

Salon Heine I/II

B6.1

8:00 – 8:20

Nerve Growth Factor Regulates the Cutaneous Inflammatory Response to Stress and Prematurely Terminates Murine Hair Growth
Eva M. J. Peters, Berlin, Germany

B6.2

8:20 – 8:40

Nerves, Neuropeptides, and the Human Anagen Hair Follicle
Maria Hordinsky, Minnesota, USA

B6.3

8:40 – 9:00

Characteristics and Potential Functions of the Hypothalamus-Pituitary-Adrenal Axis (HPA)-Equivalent of the Human Hair Follicle
Ralf Paus, Hamburg, Germany

B6.4

9:00 – 9:15

Topical Application of Neuroimmunophilin Ligand Analogs Induces Anagen Hair Growth in C57BL/6J Mice
Marna Ericson, Minneapolis, USA

PLENARY SESSION S7

09:30 – 11:00

Morphology, Structure and Function of the Hair Shaft

Ballroom

Chair: *Leslie N. Jones, Melbourne, Australia*
Claude Bouillon, Paris, France
Ryoji Tsuboi, Tokyo, Japan

Plenary Lecture S7.1

09:30– 10:00

Ethnic Hair

Victoria Holloway, Chicago, USA

Lecture S7.2

10:00 – 10:20

Keratin Associated Proteins

Yutaka Shimomura, Niiagata, Japan

S7.3

10:20 -10:40

Keratins – Pathfinders in the Hair Follicle Compartment

Lutz Langbein, Heidelberg, Germany

S7.4

10:40 – 10:55

Integral Lipid in Human Hair Follicle

Won-Soo Lee, Kangwon-Do, Korea

11:00 – 11:30

Coffee Break

Industrial Exhibition

Poster Discussion (Even Number)

PLENARY SESSION S8

11:30 – 13:00

Morphogenesis and Hair Cycling

Ballroom

Chair: *Alexander Awgulewitsch, Charleston, USA*
Motonobu Nakamura, Kyoto, Japan

Plenary Lecture S8.1

11:30 – 12:00

WNT Signals are Required for the Initiation of Hair Follicle Development and for Maintenance of Postnatal Hair Growth

Sarah E. Millar, Philadelphia, USA

S8.2

12:00 – 12:15

Pathways of Hair Follicle Differentiation Involving HOXC13

Alexander Awgulewitsch, Charleston, USA

S8.3

12:15 – 12:30

Hair Cycle-Dependent Remodelling of the Skin Vasculature is Mediated by Changes in the Expression of Key Blood Regulators of Vessel Remodelling and their Cognate Receptors

Ralf Paus, Hamburg, Germany

S8.4

12:30 – 12:45

Involvement of EDAR signaling in the Control of Hair Shaft Formation and Catagen Development During Hair Cycle

Vladimir A. Botchkarev, Michael Fessing, Boston, USA

S8.5

12:45 – 13:00

The Morphogenesis of Scales in Zebrafish: A Model for Hair/ Teeth Formation (P2.27)

Vu Nguyen, Philadelphia, USA

13:00 – 14:30

Lunch Break

Industrial Exhibition

Visit Poster Exhibition

Plenary Workshop

Luncheon Seminars

SATURDAY, JUNE 19, 2004

PLENARY WORKSHOP W3

Hair Diagnostic Techniques and Practical Advice

Ballroom

13:00 – 14:15

Chair: Jeffrey Miller, Hershey, USA
Rolf Hoffmann, Freiburg, Germany
Douglas Canfield, Fairfield, USA

W3.1

13:00 – 13:15

The 60 Second Hair Count Revisited

Jeffrey Miller, Hershey, USA

W3.2

13:15 – 13:30

Trichoscan: New Data and What Comes Next

Rolf Hoffmann, Freiburg, Germany

W3.3

13:30 – 13:45

A Randomized, Double-Blind, Placebo-Controlled Clinical Trial Evaluating Hair Shaft Width Utilizing New Photographic Methodology in Male Patients Being Treated for Androgenetic Alopecia with 5% Minoxidil Topical Solution

Douglas Canfield, Fairfield, USA

W3.4

13:45 – 14:00

Specific Signals from Anagen to Exogen are Detected in vivo by Non Invasive Scalp Hair Cycle Monitoring Method in Male and Female Patterned or Female Diffuse Hair Loss

Dominique Van Neste, Tournai, Belgium

W3.5

14:00 – 14:15

Alopecia Areata Investigational Assessment Guidelines – Part II

Elise A. Olsen, Durham, USA

LUNCHEON SEMINAR L4

Rare and Tropical Dermatoses of the Scalp and Hair

Salon Dresden

13:00 – 14:15

Chair: Mohsen M. Soliman, Cairo, Egypt
Adrian Pierini, Buenos Aires, Argentina
Wen Chieh Chen, Kaohsiung, Taiwan

L4.1

13:00 – 13:30

Rare and Tropical Dermatoses of the Scalp and Hair

Mohsen M. Solimen, Cairo, Egypt

L4.2

13:30 – 13:40

Extreme Female Predominance in Adult Tinea Capitis Unveiled by Tinea Capitis in Southern Taiwan, 1988-2003

Mark Ming-Long Hsu, Tainan, Taiwan

L4.3

13:40 – 13:50

Microscopic and Clinical Hair Disorders Among Egyptians: A Postgraduate Course

Adel Botros Zaghloul, Cairo, Egypt

L4.4

13:50 – 14:00

Nevoid Basal Cell Carcinoma Syndrome with Multiple Hair Shaft Defects

Razel Lurie, Petah Tivka, Israel

L4.5
14:00 – 14:15

**Alopecia Areata Associated with Pityriasis
Lichenoides Et Varioliformis Acuta and
Nevus Flammeus**
WenChieh Chen, Kaohsiung, Taiwan

Salon Dresden

LUNCHEON SEMINAR L5
13:00 – 14:15

Animal Models and Hair Diseases
Chair: *John P. Sundberg, Bar Harbor, USA*
Dominique Van Neste, Tournai, Belgium
Kevin McElwee, Vancouver, Canada

Salon Heine III

L5.1
13:00 – 13:15

**Transfer of CD8+ Cells Induces Localized
Hair Loss while CD4+/CD25- Cells Promote
Systemic Alopecia Areata and CD4+/CD25+
Cells Partially Blockade Disease Onset in the
C3H/HeJ Mouse Model**
Kevin J. McElwee, Vancouver, Canada

L5.2
13:15 – 13:30

**Mouse Models for Understanding Sebaceous
Gland Differentiation**
Rebecca M. Porter, Dundee, UK

L5.3
13:30 – 13:45

**Expression of Cyclooxygenase Isozymes during
Morphogenesis and Cycling of Pelage Hair
Follicles in Mouse Skin: Precocious Onset of the
First Catagen Phase and Alopecia upon
Cyclooxygenase-2 Overexpression**
Karin Müller-Decker, Heidelberg, Germany

L5.4
13:45 – 14:00

**Hair Cycle Specific Immunolocalization of Retinoic
Acid Synthesis Markers**
Helen B. Everts, Nashville, USA

L5.5
14:00 – 14:15

**Bulge Region and Epidermal Basal Layer Specific
Expression of Fibroblast Growth Factor – 13
(FHF-2) in Mouse Skin**
Toru Imamura, Tsukuba, Japan

LUNCHEON SEMINAR L6
13:00 – 14:15

**Natural Products for Hair Care
and Treatment**

Salon Durieux

Chair: *Wilma F. Bergfeld, Cleveland, USA*
Bianca Maria Piraccini, Bologna, Italy

L6.1
13:00 – 13:15

Nutrients and Hair Growth, Current Concepts
Wilma F. Bergfeld, Cleveland, USA

L6.2
13:15 – 13:30

Natural Hair Dyes
John Gray, Staines, UK

L6.3
13:30 – 13:45

**The Importance of Iron Deficiency in Patients with
Hair Loss. Iron Supplement is Helpful!**
Wilma F. Bergfeld, Cleveland, USA

L6.4
13:45 – 14:00

Phytosterols and Hair Treatment
Bianca M. Piraccini, Bologna, Italy

SATURDAY, JUNE 19, 2004

PLENARY SESSION S9

14:30 – 15:30

Follicular Targeting and Penetration

Chair: *Hans Schaefer, Berlin, Germany*
Kurt Stenn, Philadelphia, USA
Byung In Ro, Seoul, Korea

Ballroom

Plenary Lecture S9.1

14:30 – 15:00

Follicular Targeting From Basic Science to Clinical Implication

George Cotsarelis, Philadelphia, USA

S9.2

15:00 – 15:15

Follicular Targeting: A Promising Tool in Selective Dermatotherapy

Annika Vogt, Berlin, Germany

S9.3

15:15 – 15:30

Role of Arylhydrocarbon Receptor Nuclear Translocator (ARNT) in Dioxin Toxicity and Epidermal Barrier Formation in Mouse Skin

Andrey Panteleyev, Columbia, USA

CLOSING CEREMONY

15:30 – 16:00

Poster Awards

Closing Remarks

Posters

- P1 Anatomy, Morphology, Follicular Targeting
- P2 Stem Cells, Tissue Engineering, Animal Models
- P3 Genetics
- P4 Hair Cycle, Mesenchymal Interactions
- P5 Neuroimmunology, Pigmentation
- P6 Endocrinology, Hair Loss in Women
- P7 Alopecia Areata
- P8 Hair Disorders - Clinical aspects
- P9 Hair Diagnostics, Therapy
- P10 Hair Care, Hair Surgery, Epilation

P1 – Anatomy, Morphology, Follicular Targeting

- P1.1** **Foxn1 is critical for onychocyte terminal differentiation in nude (*Foxn1*^{nu}) mice**
L. Mecklenburg, R. Paus, Z. Halata, L. S. Bechtold, P. Fleckman and J. P. Sundberg. Hamburg, Bar Harbor and Seattle, Germany and USA.
- P1.2** **The development of a histological index for assessing the condition of hair from archaeological or forensic contexts**
A. S. Wilson, H. I. Dodson, R. C. Janaway, A. M. Pollard and Desmond J. Tobin. Bradford, UK.
- P1.3** **Identification of an antigen specific to the hair follicle**
Hajimu Oura, H. Iwanari, K. Yoshizato and S. Arase. Tokushima, Tokyo and Higashihiroshima, Japan.
- P1.4** **Hair follicles – traps for lateral spreading**
U. Jacobi, H.-J. Weigmann, W. Sterry and J. Lademann. Berlin, Germany.
- P1.5** **The concept of the vitreous membrane of the hair follicle as depicted by F. Pinkus (1868-1947)**
K. M. Stieler, A. Vogt, U. Blume-Peytavi and N. Haas. Berlin, Germany.
- P1.6** **The form of African-American hair is programmed from the hair bulb: a functional and immunohistological study**
S. Thibaut, O. Gaillard, P. Bouhanna and B.A. Bernard. Clichy and Paris, France.
- P1.7** **Human vellus hair follicles exhibit quantitative but no qualitative differences in the expression of differentiation markers**
R. Dirsch, A. Vogt, S. Hadam, K. Stieler and U. Blume-Peytavi. Berlin, Germany.
- P1.8** **Hair shaft under atomic force microscopy (AFM)**
M. R. Rino, R. Rolandi, A. Diaspro and M. Guarrera. Genoa, Italy.
- P1.9** **Primary non-essential cutis verticis gyrata with 3 dimensional magnetic resonance imaging (3D MR) finding**
S. W. Park, D. Lee, Y. D. Choi, S. S. Lee and S. H. Cho. Busan, Korea.

POSTER EXHIBITION

- P1.10** **Block-Copolymer nanoparticle for follicular delivery of hair drugs**
W.-S. Park, J.-W. Shim, D.-S. Sung, D.-K. Kim, C.-H. Lee and Y.-C. Shim.
Yongin-si, Korea
- P1.11** **Gene transfer into the developing follicular tissue by administrating retrovirus vectors in utero**
A. Wada, H. Kayama, S. Ihara and T. Matsuzaki. Shimane, Japan.
- P1.12** **Follicular penetration: development of a method to block the follicles selectively against the penetration process**
A. Teichmann, U. Jacobi, H.J. Weigmann, H. Schaefer, W. Sterry and J. Lademann. Berlin, Germany.
- P1.13** **Application of laser scanning microscopy for penetration studies of topically applied substances**
J. Lademann, N. Otberg, H. Richter, U. Jacobi, U. Blume-Peytavi, H. Schaefer and W. Sterry. Berlin, Germany.
- P1.14** **Penetration off titanium dioxide microparticles into follicular orifice.**
J. Lademann, N. Otberg, H. Richter, U. Jacobi, U. Blume-Peytavi, H. Schaefer and W. Sterry. Berlin, Germany.
- P1.15** **Standardized protocols allow specific targeting of vellus hair follicles and terminal hair follicles, respectively**
A. Vogt, R. Toll, S. Gontschoukow, S. Hadam, J. Lademann and U. Blume-Peytavi. Berlin, Germany.
- P1.147** **Drug targeting to skin and hair follicle: Investigation of an antiandrogen and a fluorescent marker**
U. Münster, S. Lombardi Borgia, C. Nakamura, A. Haberland, W. Mehnert, H.C. Korting, U. Blume-Peytavi, R. Sivaramakrishnan, K.D. Kramer and M. Schäfer-Korting. Berlin and München, Germany.
- P1.151** **Distribution of Merkel cells during human hair follicle morphogenesis**
Y. Tanaka, H. Oura, H. Takeichi, Y. Fujii and S. Arase. Tokushima, Japan.

P2 - Stem Cells, Tissue Engineering, Animal Models

- P2.16** **Bulge region- and epidermal basal layer- specific expression of fibroblast growth factor-13 (FHF-2) in mouse skin**
T. Imamura, M. Kawano, A. Komi-Kuramochi, S. Suzuki, R. Tsuboi and T. Imamura. Ibaraki, Tsukuba and Tokyo, Japan.
- P2.17** **Loss of epidermal stem cells by cellular senescence**
D.-S. Kim, S.-W. Youn, H.-J. Cho, H.-R. Choi, S.-E. Jeon, H.-J. Yoon and K.-C. Park. Seoul, South Korea.
- P2.18** **The reconstruction of skin equivalents by hair follicle dermal sheath cells**
H.-R. Choi, H.-J. Cho, D.-S. Kim, S.-B. Kwon, S.-W. Youn and K.-C. Park. Seoul, South Korea.

- P2.20** **Reconstruction of a sheet consisting of dermal papilla cells in vitro**
D.-Y. Lee, J.-H. Lee, J.-M. Yang and E.-S. Lee. Seoul, Korea.
- P2.21** **Human hair follicle organ culture as a screening tool for “hair drug” discovery**
A. Mescalchin, M. Massironi, A. Bettermann, R. Paus and P. Pertile. Padova and Hamburg, Italy and Germany.
- P2.22** **A new simple organotypic assay system that imitates human hair follicle-like epithelial-mesenchymal interactions**
B. Havlickova, T. Bíró, A. Mescalchin, P. Arenberger and R. Paus. Prague, Hamburg, Debrecen and Padova, Czech Republic, Germany, Hungary and Italy.
- P2.23** **Defining a role for hairless by analytical comparison of differential gene expression**
H. Kim, A. Engelhard, K. Djabali, A. Panteleyev and A. M. Christiano. New York, USA.
- P2.24** **The IFFA credo rat is a new desmoglein 4 mutant model**
H. Bazzi, A. Kljuic, A. Panteleyev and A. M. Christiano. New York, USA.
- P2.25** **Publically accessible databases detailing mouse skin, hair follicle, hair fiber, and nail anatomy and mutant phenotypes including cancer**
J. P. Sundberg, P. Schofield and J. Eppig. Bar Harbor and Cambridge, USA and UK,
- P2.26** **Spontaneous alopecia and ulcerative dermatitis in C57BL/6J laboratory mice**
J. P. Sundberg, G. Lorch, D. Taylor, K. Silva, J. Miller, L. Bechtold, A. Nicholson, R. Vonder Haar, J. Fahey, A. L. Smith and L. E. King. Bar Harbor, Columbus, Ann Arbor and Nashville, USA.
- P2.27** **The morphogenesis of scales in the zebra fish: a model for hair/teeth formation**
V. Nguyen,, X. Zhu and M. C. Mullins. Philadelphia, USA.

P3 - Genetics

- P3.28** **Gene expression profiling in cultured dermal papilla cells according to serial passages**
M.-K. Kim, Y. K. Sung, S. Im, S.-Y. Cha and J.-C. Kim. Daegu, Korea.
- P3.29** **Cysteine-rich intestinal proteins are differentially expressed in hair follicles**
S. W. Gordon, M. S. Elston, Z. Yu, A. J. Nixon, A. J. Craven, A. J. Pearson and J. V. Conaglen. Hamilton, New Zealand.
- P3.30** **Cloning, expression and characterization of human URB**
S.-Y. Cha, Y. K. Sung, S. Im, J. O. Kim, J.-C. Kim and M.-K. Kim. Daegu, Korea.
- P3.31** **The gene for hair-loss disorder in HWY (Hairless Wistar Yagi) rat maps to chromosome 15 near hairless gene**
Y. Ishii, S. Kyuwa and Y. Yoshikawa. Tokyo, Japan.

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P4 - Hair Cycle, Mesenchymal Interactions

- P4.32** **Expression of SPARC (secreted protein acidic rich in cysteine) throughout the hair cycle in rats**
V. E. Ferres, G. Nattrass, M. Bray, N. M. Penno and P. I. Hynd. Roseworthy, South Australia.
- P4.33** **Alternatively spliced isoforms of DMP1 and their potential roles in hair growth**
Z. Yu, S. W. Gordon, A. J. Nixon, J. E. Wildermoth and A. J. Pearson. Hamilton, New Zealand.
- P4.34** **Ellagic acid, an anti-oxidative suppressor of TGF- α 1 prolongs anagen phase of murine hair follicles**
W.-S. Park, D.-S. Sung, D.-K. Kim, C.-H. Lee and Y.-C. Shim. Yongin-si, Korea.
- P4.35** **Hair cycle specific immunolocalization of retinoic acid synthesis markers**
H. B. Everts, J. P. Sundberg, L. E. King Jr. and D.E. Ong. Nashville and Bar Harbor, USA.
- P4.36** **The hair growth promoting effect of HEM-13/HDC, an oriental herbal medicine, and its molecular regulation**
Eun-Young Choi, Young-Jun Park and Myung-Hee Chung. Seoul, Korea.
- P4.37** **Microphyllone isolated from Ehretia Microphylla suppresses TGF-beta 1 mRNA expression in cultured mouse vibrissa**
S. Oomizu, H. Suzuko and M. Hide. Hiroshima, Japan.
- P4.38** **Hair cycles found in the lower fragments of vibrissal follicles grafted beneath the kidney capsule**
M. Lida, S. Ihara and T. Matsuzaki. Tottori and Matsue, Japan.
- P4.39** **Localization of MYC/MAD1 protein in the hair follicle during hair cycle**
N. Saito, Y. Hamada and K. Katsuoka. Sagamihara, Japan.
- P4.40** **Diversity of hair growth parameters: a worldwide study**
G. Loussouarn, C. and El Rawadi- G. Genain. Clichy, France.
- P4.41** **Inhibition of hair placode formation in mice with suppressed NF-KB activity: the molecular mechanisms**
R. Schmidt-Ullrich, D. Tobin, J. Huelsken, G. Pilnitz-Stolze, W. Birchmeier, R. Paus and C. Scheidereit. Berlin, Yorkshire, Epalinges, Lausanne and Hamburg, Germany, UK and Switzerland.
- P4.42** **Variable expression of wound-healing markers in matched sets of interfollicular and follicular fibroblast subtypes in vitro**
R. Karoo, S. Kauser, W. L. Lam, J. M. Rawlings, D. T. Sharpe and D. J. Tobin. Bradford, UK.
- P4.43** **Acquisition of autonomy of embryonic epidermis to differentiate into adult-type epidermis is associated with its acquisition of potency to respond to dermal messages for hair follicle-induction**
M. Inamatsu, A. Makabe, T. Tochio, K. Toyoshima and K. Yoshizato. Hiroshima and Tokyo, Japan.

- P4.44** **Comparison of hair-inducing ability between the upper and the lower dermal papilla**
M. Yamao, K.-E. Toyoshima, and K. Yoshizato. Hiroshima and Tokyo, Japan.
- P4.45** **Hair induction by autologous transplantation of human dermal papilla cells onto forehead scalp**
K.-E. Toyoshima, A. Sato, M. Yamao, M. Inamatsu, T. Shimada and K. Yoshizato. Hiroshima and Tokyo, Japan.
- P4.147** **Detection of EV-HPV DNA in hair follicles of different localizations in transplanted patients vs. controls**
T. Schmook, I. Nindl, A. Köhler, S. Hezel, T. Meyer, W. Sterry and E. Stockfleth. Berlin and Hamburg, Germany.

P5 – Neuroimmunology, Pigmentation

- P5.46** **The effect of coapplication of substance P and calcitonin gene related peptide on the human hair growth in vitro**
E. Lee, S. Y. Jeon, T. H. Oh, S. Lee and W.-S. Lee. Wonju, Korea.
- P5.47** **Human hair follicles display a functional equivalent of the hypothalamic-pituitary-adrenal axis and synthesize cortisol**
N. Ito, T. Ito, A. Kromminga, A. Bettermann, M. Takigawa, and R. Paus. Hamburg and Hamamatsu, Germany and Japan.
- P5.48** **Neurokinin 1 receptor ligands modulate human hair follicle cells responses and growth ex vivo.**
S. Lachgar, S. Metenier, S. Quibeuf and M. Charveron. Toulouse, France.
- P5.49** **Induction of neuropeptides in skin innervating sensory neurons by stress and nerve growth factor as a possible reason for hair growth alteration**
A. Kuhlmei, Q.T. Dinh, E. M. J. Peters, J. Kandil, R. Paus, B. F. Klapp and P. C. Arck. Berlin and Hamburg, Germany.
- P5.50** **Is the murine hair follicle both a melatonin target and source?**
H. Kobayashi, T. W. Dunlop, B. Tychsen, F. Conrad, T. Ito, N. Ito, S. Aiba, C. Carlberg and R. Paus. Hamburg, Sendai and Kuopio, Germany, Japan and Finland.
- P5.51** **The cutaneous vanilloid receptor-1 (VR1) is involved in human hair growth control**
E. Bodóró, A. Telek, G. Czifra, Z. Griger, I. B. Tóth, J. Lázár, A. Meschalchin, T. Ito, A. Bettermann, P. Pertile, L. Kovács and R. Paus. Debrecen, Padova and Hamburg, Hungary, Italy and Germany.
- P5.52** **Follicular and interfollicular fibroblasts differentially express pro-opiomelanocortin peptides, receptors & processing convertases in vitro and during the hair growth cycle - implications for fibroblast topographic differentiation in skin**
S. Kauser, R. O. S. Karoo, M. Böhm and D. J. Tobin. Bradford and Münster, UK and Germany.

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- P5.53** **Comparative immunophenotypology of the human hair and nail apparatus**
T. Ito, N. Ito, M. Saathoff, A. Bettermann, M. Takigawa, B. J. Nickoloff and R. Paus. Hamburg, Hamamatsu and Chicago, Germany, Japan and USA.
- P5.54** **Human vellus and terminal hair follicles both express components of the POMC system**
K. Stieler, A. Vogt, Z. Li, M. Böhm and U. Blume-Peytavi. Berlin and Münster, Germany.
- P5.55** **Characterization of Japanese senile grey hairs**
R. Ideta, H. Iwaki, Y. Nakazawa, R. Toyama, T. Soma, A. Ishino, M. Tajima and K. Katsuoka. Yokohama and Sagamihara, Japan.
- P5.56** **Role of thyroid hormone in repigmentation of terminal hair and role of follicular melanocyte in hair cycle regulation**
P. Redondo, P. Lloret and J. del Olmo. Pamplona, Spain.

P6 – Endocrinology, Hair Loss in Women

- P6.57** **Substantial sex-dependent differences in the response of human scalp hair follicles to estrogen stimulation in vitro advocate gender-tailored management of female versus male pattern balding**
F. Conrad, U. Ohnemus, B. Gerstmayer, A. Bosio, A. Bettermann, E. Bodo, R. Paus. Hamburg and Cologne, Germany.
- P6.58** **Expression of androgen receptor, estrogen receptor α and β in dermal papilla cells compared with dermal sheath cells and dermal fibroblasts in vitro**
Oh Sang Kwon, Hyeon Gyeong Yoo, Ji Hyun Han, Jin Ho Chung, Kyu Han Kim, Hee Chul Eun and Kwang Hyun Cho. Seoul, Korea.
- P6.59** **Melatonin down-regulates estrogen receptor expression in murine skin and human scalp hair follicle in vitro**
F. Conrad, H. Kobayashi, A. Bettermann, B. Tychsen and R. Paus. Hamburg, Germany.
- P6.60** **Effects of prolactin on murine hair cycles are mediated directly within the skin**
A. J. Nixon, C. J. Ormandy, M. G. Ashby, K. Blazek and A. J. Pearson. Hamilton and Sydney, New Zealand and Australia.
- P6.61** **Follicular miniaturisation in female pattern hair loss: clinico-pathological correlations**
A. Messenger and R. Sinclair. Sheffield and Melbourne, UK and Australia.
- P6.62** **Female pattern hair loss and skin androgen response**
M. P. Birch, S. Agarwal, H. Lashen and A. G. Messenger. Sheffield, UK.
- P6.63** **The halo project 1: an investigation of the psychological impact of hair loss in women**
S. Biondo and Francesca E. Collins. Caulfield, Australia.

- P6.64** **The halo project 2: a proposed group psychological intervention for women with hair loss**
F. E. Collins and S. Biondo. Caulfield, Australia.
- P6.65** **A study of subjective scalp hair changes and the correlation to body hair distribution in the post menopausal woman**
I. Ali, R. Dawber and F. Wojnarowska. Oxford, UK.
- P6.66** **Alopecic patch associated with multiple piloleiomyomas**
R. Croes, R. Luyckx, V. Meuleman, V. Winnepenninckx and J. van den Oord. Leuven, Belgium.
- P6.67** **Cicatricial alopecia areata in African-American women: clinical epidemiology and quality of life evaluation**
A. J. McMichael, D. Peak, I. Roseborough and T. Lane. Winston-Salem, USA.
- P6.68** **Study on the clinical aspects of androgens and corticoids in the hair of patients with female-pattern hair loss**
B.-L. Lew, W.-Y. Sim, H.-J. Bang, J.-A. Lee, B.-C. Chung and W.-Y. Lee. Seoul, Korea.
- P6.69** **Minoxidil promotes hair growth in female androgenetic alopecia by increasing hair diameter, the ratio of terminal/vellus hairs, and the number of ki67-positive proliferating hair follicle cells in horizontal scalp sections**
R. E. Schopf and M. Bress. Mainz, Germany.
- P6.70** **Subtle cutaneous manifestations in two young women with extraordinary hyperandrogenemia**
G.-Y. Chen, H.-M. Sheu and W. Chen. Taichung, Tainan and Kaohsiung, Taiwan.

P7 - Alopecia Areata

- P7.71** **Observations on the external application of microelements in alopecia areata treatment**
W. Garncarz. Wroclaw, Poland.
- P7.72** **The progressive alopecia areata disease state and therapeutic response towards a contact sensitizer are reflected in peripheral blood mononuclear cells**
K. J. McElwee, P. Freyschmidt-Paul, M. Zöller, M. Vitacolonna and R. Hoffmann. Marburg and Heidelberg, Germany.
- P7.73** **Apoptosis resistance in peripheral blood lymphocytes of alopecia areata patients**
K. J. McElwee, P. Freyschmidt-Paul, M. Zöller and R. Hoffmann. Marburg, Freiburg and Heidelberg, Germany.
- P7.74** **Alopecia areata: do these subjects have common personality traits?**
R. d'Ovidio, J. Claudatus and T. Di Prima. Catania, Italy.

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- P7.75** **Clinical significance of the HLA-DR11 positive subset in patients with alopecia areata**
C. Marques Da Costa, J.J. Stene, E. Dupont, M. Vandercruys, M. Hidajat and M. Andrien. Bruxelles, Belgium.
- P7.76** **Alopecia areata : topical treatment with anthralin (cignolin)**
G. Staib and K. Scharfetter-Kochanek. Ulm, Germany.
- P7.77** **Children with alopecia areata – analysis of the Cleveland Clinic Foundation experience**
W. F. Bergfeld, N. C. Dombrowski, B. K. Remzi and J. M. Leonhardt. Cleveland, USA.
- P7.78** **Alopecia areata in eyebrows treated with superficial cryotherapy: case reports**
Soo Young Jeon, Bong Kyun Ahn, Sanghoon Lee and Won-Soo Lee. Wonju, Korea.
- P7.79** **Correlation between disease duration and the effect of methylprednisolone pulse therapy for alopecia areata**
J. K. Park, M. Im, M. S. Park, Y. J. Seo and J. H. Lee. Teajon, Korea.
- P7.80** **The optimal dose of topical diphenylcylopropenone sensitization for the treatment of alopecia areata: preliminary study**
M. Im, Y. Joon Seo, J. H. Lee and J. K. Park. Teajon, Korea.
- P7.81** **Adult onset alopecia areata is a complex polygenic trait in the C3H/HEJ mouse**
J. P. Sundberg, K. Silva, R. Li, G.A. Cox and L. E. King. Bar Harbor and Nashville, USA.
- P7.82** **Phylogenetic tissue arrays for comparison of alopecia areata between species**
J. P. Sundberg, J. Miller, K. McElwee, T. Olivry, R. D., T. L. Gross, S. Whitehead, D. Whiting, M. Hogan and L. E. King. Bar Harbor, Marburg, Raleigh, Texas, West Sacramento, Nashville, Dallas and San Diego, Germany and USA.
- P7.83** **A TH1 - associated anti-hair follicle IgG1 antibody response predominates in human alopecia areata**
M. L. O'Shea, L. Mooney, J.-C. Bystryk and D. J. Tobin. Bradford and New York, UK and USA.
- P7.84** **Alopecia areata of children in Korea (1991-2003)**
J. Y. Ahn, J. E. Kim and B. I. Ro. Seoul, Korea.
- P7.85** **Clinical evaluation of linear polarized infrared irradiation using super lizertm for chronic stable alopecia areata patients**
U. Rie, M. Mio and O. Hedeoki. Tokyo, Japan.
- P7.86** **CD4+ killer T cells are involved in the alopecia areata**
A. Mukuno, H. Tsuboi, T. Fujimura, Y. Hamada and K. Katsuoka. Sagamihara and Yokohama, Japan.

- P7.87** **A controlled study of liquid nitrogen efficacy in treatment of alopecia areata involving less than 25% of the scalp**
B. Matard, C. Jouanique, S. Abdennader, V. Saada, F. Nico, P. Assouly and P. Reygagne. Paris, France.
- P7.88** **Successful treatment of alopecia areata with imiquimod 5% cream**
S. Hezel, T. Schmook, I. Nindl, N. Mandt, J. Röwert, W. Sterry and E. Stockfleth. Berlin, Germany.
- P7.150** **The efficacy low dose cyclosporine a in patients with alopecia areata**
A. Tarajkowska–Olejnik, M. S³owińska and L. Rudnicka. Warsaw, Poland.

P8 - Hair Disorders - Clinical Aspects

- P8.89** **The Köbner phenomenon in trichology**
R. d'Ovidio, J. Claudatus and T. Di Prima. Catania, Italy.
- P8.90** **A case of keratosis pilaris decalvans and acne keloidalis nuchae**
A. H. Chong, Victoria, Australia.
- P8.91** **New hypothesis about common baldness**
A. J. Soler. Alicante, Spain.
- P8.92** **Scarring alopecia – manifestation of different skin diseases**
L. Oremoviæ, I. Sjerobabski Masnec and L. Lugoviæ. Zagreb, Croatia.
- P8.93** **A case of central trichoptilosis with nail dystrophy**
Y. H. Nam, M. Im, Y. J. Seo, J. H. Lee and J. K. Park. Teajon, Korea.
- P8.94** **Red meat consumption in the UK has declined over the past 15 years with significant health consequences for the UK adult population potentially leading to more women and men developing chronic telogen effluvium**
N. Frigé and D. H. Rushton. Portsmouth, UK.
- P8.95** **Diffuse non-scarring alopecia- a study of 3,500 cases**
S. Murugusundram, S. Shivakumar and P. Yesudian. Chennai, India.
- P8.96** **Trichotillomania – an important cause of diffuse alopecia**
S. Murugusundram, S. Shivakumar and P. Yesudian. Chennai, India.
- P8.97** **The question of whether low serum ferritin is associated with hair loss in women. With a related discussion as to whether other nutritional factors have any influence on hair shedding as evaluated in a survey of 2,147 women.**
R. Lurie. Petah Tiqva, Tel Aviv and Kupat-Holim Clalit, Israel.
- P8.98** **Nevoid basal cell carcinoma syndrome with multiple hair shaft defects**
R. Lurie, D. M. Michael and E. Hodak. Petah Tivka, Israel.
- P8.99** **An unusual case of perifolliculitis abscedens et suffodiens**
M. Ramos, R. Ferrusco and M. Rodriguez. Zapopan, Mexico.

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- P8.100** **Generalized hypotrichosis with features of loose anagen hair syndrome- report of a family with autosomal dominant inheritance**
S.-J. Lin, S.-H. Jee and H.-C. Chiu. Taipei, Taiwan.
- P8.101** **Alopecia areata associated with pityriasis lichenoides et varioliformis acuta and nevus flammeus**
W. Chen, C.-C. Yang, S.-C. Chao and J. Y.-Y. Lee. Kaohsiung and Tainan, Taiwan.
- P8.102** **Patients with large prostate size show higher prevalence of androgenetic alopecia**
C.-C. Yang, T.-S. Tzai, M.-C. Wu and W. Chen. Tainan and Kaohsiung, Taiwan.
- P8.103** **A clinical study of androgenetic alopecia (2002-2003)**
J. E. Kim, J. Y. Ahn and B. I. Ro. Seoul, Korea.
- P8.104** **Primary cicatricial alopecias background**
R. M. Ngwanya. Cape Town, South Africa.
- P8.105** **Autosomal dominant familial loose anagen hair syndrome associated with absence of vellus hair and generalized hypotrichosis - study of a family with 25 patients**
S.-J. Lin, S.-H. Jee and H.-C. Chiu. Taipei, Taiwan
- P8.106** **Postmenopausal frontal fibrosing alopecia**
L. Török, Á. Kirscher and Sz. Németh. Kecskemét, Hungary.
- P8.107** **Netherton's disease in two siblings- a five-year follow up**
N. Mandt, J. Vieten, K. Zappel, S. Blind and U. Blume-Peytavi. Berlin, Germany.
- P8.108** **Two cases of tufted folliculitis**
N. O. Koch. Jalisco, Mexico.
- P8.109** **Mechanisms of endogenous skin aging**
E. Makrantonaki, S. Fimmel, H. Seltmann and C. E. Orfanos, Ch.C. Zouboulis. Berlin, Germany.
- P8.110** **Estrogen activity on human skin involves interaction with the insulin-like growth factor-I (IGF-I) signalling pathway**
E. Makrantonaki, M. Oeff, S. Fimmel, C. E. Orfanos and Ch. C. Zouboulis. Berlin, Germany.
- P8.111** **Microarray analysis of IGF-I and IGF- II regulated gene expression in human dermal papilla fibroblasts**
J. J. Bull, Y. Liu, J. Monson, O. Djahanbakhch and M. P. Philpott. London, UK.
- P8.112** **Corticotropin-releasing hormone is involved in androgen-dependent skin disorders**
Ch. C. Zouboulis, K. Orłowski, A. Schnitger, E. Glass, S. Fimmel, N. Hiroi, H. Seltmann, W. Chen, S. R. Bornstein. Berlin, Duesseldorf and Tainan, Germany and Taiwan.

- P8.113** **Cultured sebocytes: A model for studies on the regulation of steroid acute regulatory protein and cutaneous steroidogenesis**
W. Chen, C.-C. Yang, H.-M. Sheu and Ch. C. Zouboulis. Kaohsiung, Tainan and Berlin, Taiwan and Germany.
- P8.114** **Control of androgen receptor expression in human skin cells and in a reconstituted human epidermis model with antisense ligonucleotides**
S. Fimmel, F. Bonté, R. Kurfürst and Ch. C. Zouboulis. Berlin and St. Jean de Braye, Germany and France.
- P8.148** **Cicatricial alopecia / lichen planopilaris- the Cleveland Clinic Foundation experience on evaluation, diagnosis and treatment**
W. F. Bergfeld, B. K. Remzi and N. C. Cevasco. Cleveland and Toledo, USA.
- P8.152** **Global evaluation of hair loss in male androgenetic alopecia: European (EU) training and validation versus US experts**
E. Sandraps, D. Herbaut, P. Lelubre, T. Leroy, D. Van Neste. Tournai, Belgium.
- P8.153** **The epidemiology of androgenetic alopecia**
Rod Sinclair, Desmond Gan, Melbourne, Australia.
- P8.154** **Lack of significant decrease in total hair follicle number with advancing age**
Rod Sinclair, Adam Chapman, Jill Magee, Melbourne, Australia.

P9 - Hair Diagnostics, Therapy

- P9.115** **Importance of serum ferritin levels in the diagnosis of chronic telogen effluvium**
M. I. Rendon, G. R. Ciocca and J. I. Gaviria. Miami, USA.
- P9.116** **Optical coherent tomography (OCT): a new method for online-measurement of hair shaft thickness**
U. Blume-Peytavi. Berlin, Germany.
- P9.117** **Effectiveness of the association cetirizine – topical steroids in some cases of lichen planus-pilaris and pseudoarea of brocq - pilot study**
R. d'Ovidio, J. Claudatus and T. Di Prima. Catania, Italy.
- P9.118** **Does aminexil prevent hair loss in patients with androgenetic alopecia who stop finasteride treatment?**
C. Vincenzi, A. Rossi, C. Cantisani, M. Pazzaglia and A. Tosti. Bologna and Rome, Italy.
- P9.119** **Topical diphenylcypropenone (DPCP) for the treatment of extensive alopecia areata**
G.-S. Choi, S.-K. Lee and J.-H. Shin. Incheon, Korea.
- P9.120** **Minoxidil 5% topical solution is effective in patients with previous treatment failure of finasteride or 17-alpha estradiol.**
K. Mulzer and J. Rundegren. Karlsruhe and Helsingborg, Germany and Sweden.

- P9.121** **Efficacy of minoxidil 5% topical solution in the treatment of androgenetic alopecia is not influenced by hair colour**
K. Mulzer and J. Rundegren. Karlsruhe and Helsingborg, Germany and Sweden.
- P9.122** **Is it ethical to use placebo controls in male pattern hair loss studies when we have effective active controls?**
D. H. Rushton and I. D. Ramsay. London, UK.
- P9.123** **A randomized trial of adenosine in androgenetic alopecia**
Y. Watanabe, K. Nagashima, N. Hanzawa, M. Ogo, A. Ishino, Y. Nakazawa, M. Uemura, and M. Tajima. Yokohama and Tokyo, Japan.
- P9.124** **Bilateral double-lined scleroderma en coup de sabre treated with an oral vitamine D analogue**
V. Verlinden, V. Meuleman, S. Segaeert and H. Degreef. Leuven, Belgium.
- P9.125** **The effect of 1mg finasteride daily in treatment of androgenic alopecia in women**
A. Tarajkowska-Olejnik and L. Rudnicka. Warsaw, Poland.
- P9.126** **Effects of the mixture of herbal medicine extracts on hair growth in C3H mice and patients with androgenetic alopecia**
M. Tanaka, T. Yamaguchi, D. Matsuura, Z. Kawakami, S. Takeda, M. Aburada, S. Watanabe and S. Arase. Ibaraki, Tokyo and Tokushima, Japan.
- P9.127** **The herbal mixture xiantene had significant effects on hair growth in a preliminary double-blind, vehicle-controlled study in men with androgenic alopecia.**
P. G. Davies and V. A. Randall. Bradford, UK.
- P9.128** **Atrophic telogen effluvium' from cytotoxic drugs and an investigation into a protective effect of pretreatment with a topical vitamin D3 analogue in man**
T. O. Bliker, N. Nicolaou, J. Traulsen and P. E. Hutchinson. Leicester, UK.
- P9.129** **Novel and established potassium channel openers stimulate hair follicle growth *in vitro* and their effects are opposed by inhibitors: implications for their modes of action in hair follicles.**
G. C. Davies, M. Julie Thornton, T. J. Jenner, Y. C. Chen, J. B. Hansen, R. D. Carr and V. A. Randall. Bradford and Bagsvaerd, UK and Denmark.
- P9.130** **Effectiveness of finasteride on patients with male pattern baldness who have different androgen receptor gene polymorphism**
K. Kobayashi, N. Wakisaka, Y.-I Taira, M. Ishikawa, Y. Nakamizo, M. Uwabu, Y. Fukuda, Y. Taguchi, T. Hama and M. Kawakami. Tokyo, Japan.
- P9.149** **Authenticity of long curated historical hair samples - the case of Newton's Hair**
A. S. Wilson, M. P. Richards, M. Thomas and P. Gilbert. Bradford and Tucson, UK and USA.

P10 - Hair Care, Hair Surgery, Epilation

- P10.131** **In vitro fungicidal efficiency of ciclopiroxolamine alone and associated to pyrithione zinc against malassezia species**
C. Roques, M. Jeanjean, V. Ermosilla, V. Sibaud and C. Panizzutti. Toulouse and Castanet Tolosan, France.
- P10.132** **Three etiologic facets of dandruff and seborrheic dermatitis: Malassezia fungi, seba- ceous lipids, and individual sensitivity**
Y. M. DeAngelis, M. O. Leland, T. Boekhout, J. R. Kaczvinsky, S. Whitaker, D. Keanneally, J. R. Schwartz and T. L. Dawson Jr.. Cincinnati and Utrecht, USA and The Netherlands.
- P10.133** **A retrospective assessment of response to treatment with 1% pyrithione zinc shampoo in african americans with moderate to severe dandruff/seborrheic dermatitis**
W. L. Billhimer and M. A. Copas. Cincinnati, USA.
- P10.134** **GP4G stimulates human hair follicle cells metabolism and growth in organ culture**
S. Lachgar, L. Fort-Lacoste, V. Ermosilla and M. Charvéron. Toulouse, France.
- P10.135** **An investigation of the impact of ZPT containing anti-dandruff shampoos on scalp irritation and itch associated with dandruff**
K. M. Kerr, J. R. Schwartz, D. C. Kenneally and C. H. Margraf. Cincinnati, USA.
- P10.136** **The damage and restoration of integral hair lipid following treatment with hair dye**
S. H. Chun, E. Lee , M. S. Song, T. H. Oh and W.-S. Lee. Wonju, Korea.
- P10.137** **The damage and restoration of hair lipid barrier following treatment with permanent hair waving**
S. H. Chun, E. Lee , M. S. Song, and W.-S. Lee. Wonju, Korea.
- P10.138** **Amino acids - improving hair fibre properties in cosmetic hair problems**
C. Gummer and S. Shiel. Egham, UK.
- P10.139** **Interest in gamma-cyclodextrin in the formula of a hair-loss lotion : evaluation by sensory metrology**
I. Bacle, S. Meges, P. Lefrançois, J. J. Voisard, M. Luspot, S. Chesnoy, M. Delaunois and P. Morinet. Vigoulet, France.
- P10.140** **Exogenous hair damage: light microscopy of human hair shafts after in-vitro damage and application of hair care products**
A. M. Finner, J. Welzel. Berlin and Luebeck, Germany.
- P10.141** **Effectiveness of serenoa repens on androgenetic alopecia**
C. Fasulo, A. Linguiti, L. Bosco, P. Morranti and R. A. Satriano. Battipaglia and Naples, Italy.

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- P10.142** **Molecular mechanism of the hair growth promoting effect by the combination of 6-benzylaminopurine and pentadecanoic acid.**
T. Midorikawa, T. Chikazawa, N. Sato, T. Yoshino and K. Takada.
Odawawara, Japan.
- P10.143** **Follicular unit transplantation: the option of beard construction in eunuchoid man**
K. Sahinoglu and S. Sonmez Ergün. Istanbul, Turkey.
- P10.144** **Combined treatment with laser and topical eflornithine is more effective than laser treatment alone for removing unwanted facial hair – a placebo-controlled trial**
E.Tan, I. Hamzavi, J. Shapiro and H. Lui. Vancouver, Canada.
- P10.145** **Evaluations of photo-epilation effect by gross observations are reliable?**
C. Huh, J. Oh and K. Park. Kyounggi and Seoul, Korea.

GENERAL INFORMATION AND CONDITIONS

President 4th IMHRS

Ulrike Blume-Peytavi, MD, PhD
 Department of Dermatology and Allergology
 Charité - University Medicine Berlin
 Schumannstr. 20/21
 D-10117 Berlin
 Germany
 Phone: + 49 / 30 / 450 518 122
 Fax: + 49 / 30 / 450 518 952
 E-Mail: ccp-office@charite.de
 www.hair2004.com

Congress and Exhibition Organization

DER-CONGRESS	Phone: + 49 / 30 / 857 90 3-0
Congress Organisation	Fax: + 49 / 30 / 857 90 3-26
Bundesallee 56	E-Mail: der@der-congress.de
D-10715 Berlin	
Germany	

Congress Venue

Hotel Hilton Berlin	Phone: + 49 / 30 / 2023-0
Mohrenstr. 30	Fax: + 49 / 30 / 2023-4269
D-10117 Berlin	E-Mail: Info-berlin@hilton.com
Germany	

Registration Fees per Person starting from April 16, 2004

Member *	EUR 250,-
Non-Member	EUR 390,-
Students **	EUR 125,-

* EHRS, NAHRS, SHRS, AHWRS, KHRS

** The registration form must be accompanied by a letter from the head of the Hospital/University department **and** a copy of the student's card.

The Registration Fees include admission to all sessions (except the Clinical Courses on Thursday), the Poster and Industrial Exhibitions, the Welcome Evening and coffee breaks, as well as all congress documents.

Clinical Courses

Full congress registration is required to be permitted to book Clinical Courses (EUR 50,- each).

Payment

should have been made in advance by

a) Credit card: VISA / Diners Club / EUROCARD / MasterCard.

No other credit cards can be accepted. All fees paid by credit card will be charged at the actual exchange rate.

b) Bank transfer in European Currency (EUR) - (a copy of the remittance order must be enclosed) - to:

DER-CONGRESS, Congress Organisation

Commerzbank AG Frankfurt/Main, Account No. 589 51 56,

Sort Code 500 400 00. Please note that for low-priced EUR transfers within the EU you need to state the **BIC** (Bank Identifier Code - **COBADEFF**) and the **IBAN** (International Bank Account Number - **DE33 5004 0000 0589 515600**) on your remittance slip.

The name of the participant as well as ST 04 160, Hair 2004 should have been clearly marked on every remittance form.

All banking fees must be paid by the participants and will otherwise be charged at the registration counter.

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On-Site-Registration

The registration counter located at the Hilton Hotel Berlin, will open as follows:

Wednesday, June 16	17:00 - 20:00
Thursday, June 17	07:30 - 18:00
Friday, June 18	07:00 - 18:00
Saturday, June 19	07:00 - 16:00

The following credit cards will be accepted for on-site registration: VISA / Diners Club / EURO-CARD / MasterCard.

Participants who have not paid their fees in advance are kindly requested to pay the out-standing amount on-site. If fees have not been credited to the account of DER-CONGRESS until the beginning of the congress, a copy of the remittance order must be presented.

Only participants who have paid their fees will be admitted to the congress.

Badges, congress documents and vouchers for booked events will be handed out at the registration counter. No documents have been mailed before the congress.

Badges

The Congress Badge ensures admittance to the congress.

Please note that Preregistration was required for Clinical Courses, Breakfast and Luncheon Seminars and the Plenary Workshop W3 „Hair Diagnostic Techniques and Practical Advice“

All preregistered participants are kindly asked to bring their vouchers for admittance to these Sessions.

Changes of Registration and Names

To cover administrative expenses, EUR 15,- will be charged for changes in registration. Name changes will be treated as cancellations and charged as new registrations

Cancellation of full Registration

No refunds have been made for cancellations received after April 20, 2004. The fee is also due if the participant does not attend the congress.

Cancellation of Clinical Courses, Social Events and Tourist Program

In case of cancellations after April 20, 2004 the full fee must be paid. There is no refund.

Sightseeing tours will only take place if there is a minimum number of participants. Otherwise the tour will be cancelled and the amount paid will be refunded. No further claims can be considered. There will be no refunding if other means of transportation are used by the participant(s) or if the participant(s) does not attend the tour.

Hotel Reservations

Reserved rooms will be kept until 6 p.m. on the scheduled day of arrival unless the late arrival was marked on the registration form.

In the case of changes or cancellations of reservation you should have contacted the hotels directly. You might be charged with the relevant cancellation or no-show fee for each cancelled room or night if required by the hotel.

For further information or assistance with your reservation, you are welcome to contact the registration counter.

GENERAL INFORMATION AND CONDITIONS

Language	The official congress language is English.
CME Credits	The Hair Research Societies 4th Intercontinental Meeting of Hair Research Societies (IMHRS) is recognized by the American Academy of Dermatology for 20 hour(s) of AAD Category 1 CME credit and may be used toward the American Academy of Dermatology's Continuing Medical Education Award.
Oral Presentation	Single slide and LCD projectors will be provided for the speakers' presentations. Users of LCD projectors are required to bring their presentation on CD, preferably at Windows XP. The use of a personal computer will not be allowed. Slides must be 5 x 5 cm, glass protected and fitted in solid frames (plastic or metal only). Please bring the CD or slides to the media check in the Salon Devrient, Hilton Hotel, at latest 2 hours prior to the beginning of your session.
Poster Presentations	All posters will be displayed from Thursday, 14.00h to Saturday, 15:00h at the Hotel Hilton in the Salon Corinth and in the gallery's foyer. Posters will be viewed in 4 sessions as outlined below. The first author of each poster is responsible for proper assembly, mounting and presentation of his/her poster. All posters must be mounted on and removed from the assigned board according to the following schedule. Posters can only be taped to the boards. Pins and staples may not be used. During the poster discussion session all presenting authors are asked to be available at their posters for questions and discussions. Please note that the posters will be displayed during the whole congress. We would like to encourage all congress participants to use their spare time and coffee breaks for further poster viewing and discussions! Each participant poster will be eligible for one of the 6 poster prizes generously provided by Pfizer (3 clinical, 3 experimental poster prizes; each 500•). Members of the Poster Committee will visit all posters.

Poster Committee Members

Juergen Lademann, Germany; Amos Gilhar, Israel; Ramon Grimalt, Spain; Jeffrey Miller, USA; Dominique Van Neste, Belgium; Michael Philpott, UK; Woo-Young Sim, Korea; Ryoji Tsuboi, Japan

Poster installation, their removal and the poster discussion sessions for odd and even numbers will be held as follows:

Install All Posters

Thursday, June 17, 2004 08:00-14:00

Poster Discussions (Odd Numbers)

Thursday, June 17, 2004 16:00-16:30

and

Friday, June 18, 2004 15:45-16:15

Poster Discussions (Even Numbers)

Friday, June 18, 2004 10:30-11:00

and

Saturday, June 19, 2004 10:55-11:30

Presentation of Poster Awards

Saturday, June 19, 2004

15:30-16:00 during the Closing Ceremony

Dismantle All Posters

Saturday, June 19, 2004 15:00-18:00

GENERAL INFORMATION AND CONDITIONS

The IMHRS is not responsible for posters left unclaimed at the conclusion of the Meeting. It is the responsibility of each presenter to dismantle and remove his or her poster after all poster sessions have concluded. **Unclaimed posters will not be returned.**

Meetings of the Hair Research Societies:

Members of the Hair Research Societies will meet on Friday, June 18, 2004 from 17:30 to 18:15.

EHRs:	Ballroom
NAHRs:	Salon Humboldt
AWHRs:	Salon Durieux
SRHS:	Salon Heine III
KHRs:	Salon Dresden

Industrial Exhibition

The Exhibition is situated close to the session halls at the Hotel Hilton and will be open as follows:

Thursday, June 17	14:00 - 18:00
Friday, June 18	08:30 - 18:00
Saturday, June 19	08:30 - 16:00

Exhibition Organization

DER-CONGRESS
Congress Organisation, Bundesallee 56
D-10715 Berlin, Germany

Phone: + 49 / 30 / 857 90 30
Fax: + 49 / 30 / 857 90 326
E-Mail: der@der-congress.de

Social Events

Welcome Evening

Thursday, June 17, 2004

18:30 - 21:00

Museum für
Kommunikation

Leipziger Str. 16

10117 Berlin

Phone:

+49 (0)30 30 20 29 40

Location: "Museum für Kommunikation"

Berlin Mitte, founded in 1872 as the first postal museum in the world. This evening is the first opportunity to meet colleagues and friends. Registered participants are entitled to bring along one accompanying person free of charge. Drinks and Snacks will be served. The museum is located at "Leipziger Straße", within a walking distance of less than ten minutes from the congress hotel.



GENERAL INFORMATION AND CONDITIONS

Gala Evening
Friday, June 18, 2004
19:30 - 24:00
€ 30,- p. P.

Dress: smart casual. For your **comfort:** no high heeled shoes.

Location: The Gala-Evening will take place in the unique atmosphere of the "Zitadelle Spandau". The Spandau Citadel can claim to be the best preserved fortress, built at the time of the Renaissance, in Northern Germany. The "Italian Courtyards" are situated within the walls of the citadel. Those who are familiar with the Southern European style of architecture, will immediately feel transported to Italy, which is not surprising, as the courtyards were designed and built by the Italian architect, Rochus Guerini Earl of Lynar, in 1580. The ensemble was given the name "Italian Courtyards" in keeping with the style of Romanticism.

Dinner buffet and beverages are included.

A bus transfer will be provided. Busses will leave the Hilton Hotel at 18:30 – 18:45.

In case you miss the bus transfer you may go by public transport. U2 Underground train station "Stadtmitte" is directly in front of the hotel. Use the U2 direction "Ruhleben" until station "Bismarckstraße". There you change to U7, direction "Rathaus Spandau" and leave at station "Zitadelle". If you take a taxi just tell the taxidriver "Zitadelle Spandau".

Registered participants who have booked the Gala Evening are entitled to bring along one accompanying person against a fee of EUR 30,-
Due to limited capacity all bookings have been made on a first-come, first-served basis.

Tourist Program

City Sights with Visit to the Pergamon Museum

This tour takes you to the city's main sights and attractions, including the famous boulevard "Kurfürstendamm" with the "Kaiser Wilhelm Memorial Church", the New National Gallery, the French and German Cathedrals, the Brandenburg Gate and the "Reichstag", the avenue "Unter den Linden" and much more.

The historical Pergamon Museum is located on an island in the center of the city and houses a collection of antiquities, as well as the famous Pergamon Altar, the Ishtar Gate and the Market-gate of Milet.

This tour is ideal to obtain a first impression of the old and new spirit of the city and its fascinating history.

Friday, June 18 13:00 - 17:00
€ 32,- per person

Greek and Roman Hairstyles in the Berlin Museum of Antiquities

Here we see the representations of gods and goddesses, such as Jupiter and Diana, who can be recognised on the basis of established hairstyles; shaggy heroes and philosophers, not all of whom have androgenetic Alopecia; the hair of satyrs and fauns, followers of bald-headed Dionysios, stands on end, whereas the Guided tour in English & barbarian's hair hangs lifelessly. The classical works of art allow us to study the hair French of Caesar and Titus, the delicate styles of children, Greek knots and the fine braids of the Korai, the shorn hair of athletes, the elaborate hairstyles of Imperial Rome and the buns of matrons.

Thursday, June 18 12:30 - 13:30 and/or
Saturday, June 19 12:30 - 13:30
€ 8.- per person

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Information about the City

Berlin has a widespread range of attractions. Annual highlights such as theatre weeks, international concert performances and film festivals, local theatres and concert halls present a broad spectrum, ranging from classic or modern drama, opera and ballet, to comedy and cabaret.

Throughout the year, Berlin's artistic treasures, museums, palaces, galleries and archives attract visitors from all over the world. A great number of monuments bear witness to the history of Berlin and Prussian culture.

Shopping

You may also use your leisure time to go shopping downtown on the "Kurfürstendamm" and the "Friedrichstraße", to enjoy the spirit of this thriving metropolis. Shopping hours are from 09:00 - 20:00, Monday to Friday and from 09:00 - 16:00 on Saturday. Most shops are closed on Sunday.

Weather

The congress takes place during the late spring /beginning of summer when the temperatures are around 20°C (68°F) during the day and 11°C (51.8°F) at night. It may be useful to bring a sweater and raincoat.

Parking Facilities

A multi-storey car park is available at the Hotel Hilton Berlin.

Parking space at the Hotel Unter den Linden is available directly in front of the hotel and close by at the multi-storey car park in the Behrenstrasse.

Banking Facilities

Next to the Hotel Hilton Berlin, there are several banks at your disposal. Money exchange will also be possible at the Hotel Hilton Berlin.

Restaurants

Berlin is also famous for its wide variety of cafes and restaurants serving international or Berlin style cuisine and for its countless pubs and bars, which offer an exquisite selection of German beer and cocktails in a unique atmosphere.

Don't forget to try a "Currywurst", a local fast-food delicacy (fried sausage with curry ketchup), not forgetting a "Berliner Weiße", which is a refreshing mix of beer and syrup and ideal for relaxing in one of the numerous beer gardens.

The restaurants in the conference hotel, as well as in the near vicinity, serve international or Berlin-style cuisine.

We draw your attention to the "Special Selection of Restaurants, Bars, Cafés and Nightclubs" by the Congress Secretaries for Hair 2004 Participants. Ask at the registration counter for the "Special Selection".