

EAU THERMALE Avène

A World of Hyperpigmentary Disorders

Chairman : Prof. Jean-Paul ORTONNE (Nice, France)



11^{èmes} Entretiens d'Avène
Station thermale d'Avène, 19 octobre 2012

Laboratoires dermatologiques
Avène
PARIS

Faculty

Chairman:

- Jean-Paul ORTONNE,
France

Lecturers:

- Mark BERNEBURG,
Germany
- Mauro PICARDO,
Italy
- Tania CESTARI,
Brazil
- Thierry PASSERON,
France
- Marta RENDON,
USA
- Hee-Young KANG,
Korea
- Didier GUERRERO,
France
- Joëlle NONNI,
France

Welcome to the “World of hyperpigmentary disorders”

For the 11th time, the « **Entretiens d’Avène** » are an occasion to direct the spotlights to a speciality topic of dermatology. In recent years, basic research has allowed us to gain new insights into the complex processes that underlie skin pigmentation. We understand that this new knowledge is now to be translated into clinical progress. It is a thrilling experience to accompany this process by organizing this meeting.

An outstanding faculty, highly recognized in the field of pigmentation research, has gathered around our visionary Chairman, Pr Jean-Paul Ortonne. In a world contracting under the speed of human development, we are honoured to welcome speakers coming from 4 different continents and delegates of 11 countries.

We thank you all, lecturers and participants, for your interest and your willingness to make this long trip to Avène. I also would like to thank those who, through their enthusiasm and dedication, have enabled these encounters – and among them, the hydrotherapy centre team, fostering our colloquium while providing full patient care.

We feel confident that this year’s edition of the « **Entretiens d’Avène** » will live up to our expectations and improve our understanding of hyperpigmentary disorders and we invite every participant to actively join our discussion rounds.

*Victor Georgescu
Medical Director
Laboratoires dermatologiques Avène*

PROGRAM

• MORNING SESSIONS - Physiopathology and clinics

- **9⁰⁰ - 9²⁰ Prof. Jean-Paul ORTONNE**
Welcome and Introduction
- **9²⁰ - 9⁵⁰ Prof. Mark BERNEBURG**
Pigmentary lesions induced by ultraviolet radiation and other sources of DNA damage
- **9⁵⁰ - 10⁰⁰ Dr. Mauro PICARDO**
In vivo confocal microscopy in hyperpigmentary lesions
- **10⁰⁰ - 10³⁰ Prof. Hee-Young KANG**
Melasma
- **Coffee break**
- **10⁵⁰ - 11²⁰ Dr. Mauro PICARDO**
Inflammation and pigmentation
- **11²⁰ - 11³⁰ Prof. Mark BERNEBURG**
Potential molecular mechanisms underlying pigmentary changes in DNA repair disorders
- **11³⁰ - 12⁰⁰ Prof. Tania CESTARI**
Aspects of photoprotection in hyperpigmentary disorders

• AFTERNOON SESSIONS - Management

- **14⁰⁰ -14³⁰ Dr. Marta RENDON**
Topical treatments of hyperpigmentation disorders
- **14³⁰ -15⁰⁰ Prof. Thierry PASSERON**
Lasers in hyperpigmentary disorders
- **15⁰⁰ - 15³⁰ Dr. Didier GUERRERO, Joëlle NONNI**
Cosmetic treatments // Medical make-up workshop
- **Coffee break**
- **15⁵⁰ - 16⁰⁰ Prof. Thierry PASSERON**
Interactive clinical cases of hyperpigmented disorders
- **16⁰⁰ - 17⁰⁰ FORUM**
Aspects of pigmentary disorders in ethnic skin
[cameos by Dr. Marta RENDON, Prof. Hee-Young KANG and Prof. Tania CESTARI followed by discussions]
- **17⁰⁰ Prof. Jean-Paul ORTONNE**
Closing word

PROGRAMME

• **MATINÉE : Physiopathologie et aspects cliniques**

- **9⁰⁰ - 9²⁰ Prof. Jean-Paul ORTONNE**
Accueil et Introduction

- **9²⁰ - 9⁵⁰ Prof. Mark BERNEBURG**

Des lésions pigmentaires provoquées par les radiations UV et d'autres sources de dommages de l'ADN

- **9⁵⁰ - 10⁰⁰ Dr. Mauro PICARDO**
Microscopie confocale in vivo et lésions hyperpigmentées

- **10⁰⁰ - 10³⁰ Prof. Hee-Young KANG**
Melasma

• **Pause café**

- **10⁵⁰ - 11²⁰ Dr. Mauro PICARDO**
Inflammation et pigmentation

- **11²⁰ - 11³⁰ Prof. Mark BERNEBURG**

Mécanismes moléculaires potentiellement responsables des troubles pigmentaires dans les maladies de réparation de l'ADN

- **11³⁰ - 12⁰⁰ Prof. Tania CESTARI**
Aspects de photoprotection dans les hyperpigmentations

• **APRÈS-MIDI - Prise en charge**

- **14⁰⁰ - 14³⁰ Dr. Marta RENDON**
Traitements topiques des hyperpigmentations

- **14³⁰ - 15⁰⁰ Prof. Thierry PASSERON**
Lasers et hyperpigmentations

- **15⁰⁰ - 15³⁰ Dr. Didier GUERRERO, Joëlle NONNI**
Prise en charge par les cosmétiques // Atelier maquillage médical

• **Pause café**

- **15⁵⁰ - 16⁰⁰ Prof. Thierry PASSERON**
Cas cliniques interactifs des hyperpigmentations

- **16⁰⁰ - 17⁰⁰ FORUM**

*Des aspects des troubles de pigmentation dans la peau ethnique
[Caméos par Dr. Marta RENDON, Prof. Hee-Young KANG et Prof. Tania CESTARI suivi d'une discussion]*

- **17⁰⁰ Prof. Jean-Paul ORTONNE**
Conclusion



Jean-Paul ORTONNE

Jean-Paul Ortonne is Professor of Dermatology and Chairman, Department of Dermatology, University of Nice-Sophia Antipolis, and scientific director of a Clinical Pharmacology Centre of Dermatology. Between 1990 - 2004 he was head of a research laboratory appointed by INSERM which examined skin biology and physiopathology.

Prof. Ortonne's major medical interests are clinical pharmacology in dermatology and psoriasis, melanin pigmentary disorders (in particular, vitiligo and pigmentary genodermatoses) and the dermo-epidermal junction. He is best known for his work on vitiligo and his group described a new component of the epidermal basement membrane, known as laminin-5, which is involved in the pathogenesis of junctional epidermolysis bullosa (JEB). Prof. Ortonne is a founding member of the French Society for Dermatological Research and was President of this organisation between 1984 and 1985.

He was a member of the board of directors of the Société Française de Dermatologie et de Vénérologie (President in 1996). During 1996–1998 Professor Ortonne was President of the European Academy of Dermatology and Venereology, and he was the Secretary General of the World Congress of Dermatology in PARIS in 2002. He was a member of the International Committee of Dermatology which is the Board of the International League of Dermatology Societies (ILDS) (1998-2007) and is member of the International Psoriasis Council.

Prof. Ortonne has written over 612 clinical/research papers as well as monographs entitled 'Vitiligo and other hypomelanoses of hair and skin', and 'Photo-damaged skin' monograph. He is co-editor and co-author of the textbooks 'The pigmentary system: Physiology and pathophysiology' and 'Mechanisms of sun-tanning'.



Mark BERNEBURG

After his medical training, Prof. Mark Berneburg specialized in Dermatology in the department of Prof. Thomas Ruzicka under the supervision of Prof. Jean Krutmann in the Department of Dermatology, Düsseldorf, Germany. From 1997-1999 he did a postdoc in the laboratory of Prof. Alan Lehmann at the MRC Cell Mutation Unit, Brighton, UK. In 1999 he returned to Düsseldorf to set up his own scientific young investigator group funded by the DFG Emmy Noether Program. In 2002 he became board certified dermatologist and was appointed head of the laser section in the Department of Dermatology, Düsseldorf. In 2003 he accepted a clinical consultant position and Assistant Professorship in the Department of Dermatology, Director Prof. Martin Röcken, Eberhard Karls University, Tübingen, Germany. Here he currently works as clinical and scientific head consultant. Clinical work comprises general dermatology of inpatients including all stages of melanoma, phototherapy and photodiagnosics, photodynamic therapy and lymphoma.

He is head of the Center for Rare Skin Diseases and his laboratory is reference center for rare diseases with defects in DNA repair. His scientific interest and expertise lies in the areas of genodermatoses with increased skin cancer and pigmentary changes, photobiology including photocarcinogenesis and photoaging.

Prof. Mark Berneburg has published scientific and clinical papers in more than 90 highly ranked international, peer reviewed journals as well as more than 20 reviews and more than 20 book chapters.



Mauro PICARDO

Dr. Mauro Picardo, dermatologist, is the Director of the Cutaneous Physiopathology Laboratory and Metabolomic Center at the San Gallicano Dermatological Institute in Rome.

He was trained at the Rome University "La Sapienza".

His main topics of interest are skin biochemistry, free radicals mediated damage of the skin, mechanism of control of skin pigmentation, depigmenting agents, and vitiligo. Moreover, as chairman of the Integrated Center of Metabolomic Research (CIRM) at the San Gallicano Institute, he coordinates lipidomic studies on acne and related disorders (seborrheic dermatitis, rosacea) in sebum and blood samples. His group set up several collaborations with national and international research groups. He served or has served in the board of national (SIDEMAST) and international (EIS, ESDR, ESPCR) scientific societies. In collaboration with Alain Taieb, he chairs the Vitiligo European Task Force and the Pigmentary Disorders Group of the EADV. Dr Picardo is member of the Editorial Board of several dermatological and biochemical journals including Pigment Cell and Melanoma Research.

He was associated editor of Pigment Cell Research. He is author of more than 250 publications in peer reviewed journals and of more than 30 chapters in different books. In collaboration with A. Taieb, he is co-editor of a textbook "Vitiligo" (Springer ed, 2010). Dr. Mauro Picardo is the President of the International Federation of Pigment Cell Societies.



Tania F. CESTARI

Prof. Tania Cestari received her undergraduate degree in Medicine from the University of Rio Grande do Sul and her MS and PhD from the University of Rio de Janeiro. She is presently Associate Professor of Dermatology at the School of Medicine from University of Rio Grande do Sul, Chairperson of the Department of Dermatology and of the Laboratory of Applied Photomedicine of the Hospital de Clinicas de Porto Alegre Research Center.

Prof. Cestari serves as Effective Member of the Brazilian Society of Dermatology, European Academy of Dermatology and Venereology, American Academy of Dermatology, International Society of Dermatology, American Society of Photobiology, Latin American Society of Photobiology and Photomedicine, Latin American Society of Pediatric Dermatology and of the Women's Dermatological Society. She participates actively on that organizations and is, currently, vice-president and Chair of the Maria Duran Committee of the ISD, member of the AAD World Congress Fund Review Task Force, member of the International Affairs Committee of the Women's Dermatological Society and member of the TC 6-48 (Americas' Sector - Sensitivity of human skin to ultraviolet radiation Task Force) of the CIE (Commission Internationale de L Eclairage – International Commission on Illumination).

Besides teaching Graduation students Prof. Cestari acts as supervisor and adviser of the Post Graduation Course in Children and Adolescent Health and has oriented 27 MS and 11 PhD thesis. Her research interests include mainly pigmentary disorders, photodermatology and skin diseases in children.



Thierry PASSERON

After his medical training, Prof. Thierry Passeron specialized in Dermatology in the department of Prof. Jean-Paul Ortonne in Nice University Hospital. He worked also one year in Principal Hospital of Dakar, Senegal. In 2003 he published his thesis on the use of Excimer laser in Dermatology. He worked as clinical assistant in the Department of Dermatology, University Hospital of Nice from 2003-2005.

Concomitantly he developed fundamental researches in the laboratory of Dr. Robert Ballotti (INSERM U895). From 2005 to 2007, he worked in the laboratory of Dr. Vincent J. Hearing at the National Institute of Health, National Cancer Institute (Bethesda, USA) and characterized the role of SOX9 in melanocytes and in melanoma. He passed his PhD in 2008. Since 2010, he is Professor of Dermatology in the University hospital of Nice. He also heads the laboratory INSERM U1065 team 12, C3M dedicated to the research of melanocytic differentiation. He heads the University laser center in Nice. He has two international patents and more than 80 publications in scientific journals. His fields of research include pigmentary disorders, melanoma and lasers.



Marta I. RENDON

Dr. Marta I. Rendon, a double board-certified physician on the forefront of cosmetic dermatology and research, is on a life-long mission: to perfect the science, research, technologies, and treatment applications in dermatologic medicine. Her mission is one of passion and profession, of which she practices daily at The Rendon Center for Dermatology and Aesthetic Medicine in Boca Raton, Florida.

Dr. Rendon has served as a clinical associate professor in the Department of Dermatology at the University Of Miami School Of Medicine for over 20 years and is the former chairperson of the Department of Dermatology of Cleveland Clinic Florida.

In addition, Dr. Rendon serves as a clinical associate professor in the Department of Biomedical Sciences at Florida Atlantic University in Boca Raton, Fla., an affiliation of University of Miami School of Medicine.

Dr. Rendon earned her medical degree from the prestigious University of Puerto Rico, San Juan. After completing her internal medicine residency at Albert Einstein Medical Center in Philadelphia, Dr. Rendon completed a vigorous two-year program involving the study of Hansen's disease at the U.S. Department of Health and Human Services training facility in Carville, La. After earning her residency in dermatology at Parkland Memorial Hospital in Dallas, Dr. Rendon also trained in superficial anatomy and cutaneous surgery at the Scripps Clinic and Research Foundation in San Diego, laser surgery at Marshfield Medical Research Foundation in Marshfield, Wis., and phototherapy and photobiology at Johns Hopkins Medical Center in Baltimore, Md.

Dr. Rendon has also written multiple books and book chapters and has been published in numerous peer-reviewed journals. Through skill, determination and compassion for patients suffering from skin disorders, Dr. Rendon has achieved a notable national and international reputation in her specialty.



Hee-Young KANG

Hee-Young Kang, M.D. Ph. D., is an associate professor at the department of dermatology at Ajou University School of Medicine in Suwon, Korea.

She started her studies in medicine in 1988 at the Ajou University School of Medicine and received her M.D. and Ph.D. from the Ajou University Graduate School.

She studied at the department of life science of POSTECH, Korea from 1995 to 1997.

She trained in dermatology at the Ajou University Hospital (1997-2001).

In 2001, she became a board certified dermatologist and she worked as an assistant professor in the department of dermatology, Ajou University School of Medicine from 2004 to 2008. From 2008 to 2009, Pr. Kang had a visiting scholar in the department of dermatology at the University of Nice in France. She has published scientific and clinical papers in more than 80 highly ranked international journals. Besides clinical dermatology, her scientific focus is in the pigmentary disorders including melasma and vitiligo.



Didier GUERRERO

Dr. Didier Guerrero graduated from Montpellier University after training in dermatology, immunology, allergology and parasitology. He also received a speciality training in adult psychiatry. Since 1982, he owns a private dermatology practice established in the south of France.

In 1989, Dr. Guerrero became scientific consultant for Laboratoires Pierre Fabre. He was one of the first persons to work on developing the Avène hydrotherapy center along with the Avène brand.

For the last 20 years, along with its contribution to the development of dermo-cosmetic products, Dr. Guerrero has been helping in the development and implementation of clinical studies and pharmacoclinical studies on the Avène Thermal Spring Water.

As an expert dermatologist, he participated in major international congresses such as AAD, EADV, RADLA, and the World Congress of Dermatology in 2002 and 2007.

Dr. Guerrero participated also in national congresses in European countries but also in Japan, China, Taiwan, Canada and Brazil.

He worked on the interest of using the Avène Thermal Spring Water for treating skin pathologies and the leading role of the dermo-cosmetic products in the treatment of dermatoses.

Dr. Guerrero is the author and co-author of various publications about the use of Avène Thermal Spring Water, the evaluation of dermo-cosmetic actives in acne, atopy, aging, sensitive skin, and on therapeutic patient education.

He also participated in reference publications on healing, cosmetic active ingredients, and an essay on psychosomatic medicine.



Joëlle NONNI

After her training as makeup artist, Joëlle Nonni quickly focused her activity on the medical sector. In 1993, while working at the Saint Louis Hospital (Paris) and at the request of Prof. Caroline Robert, Joëlle Nonni established a medical esthetics approach.

Her first experience of putting makeup on a Xeroderma Pigmentosum patient had been pivotal to really appreciate the positive impact that this type of approach can have on patients' quality of life.

After having worked on cicatrisation troubles and on patients suffering from severe burns at different locations around Paris, she launched a workshop on medical makeup at the Avène Hydrotherapy Center. There, Joëlle Nonni developed makeup techniques that are compatible with symptoms of skin diseases as diverse as atopic dermatitis, psoriasis, vitiligo, acne, and hyperpigmentation.

Joëlle Nonni is the author of several articles on the different indications for medical makeup that were published in the medical press.

She is an instructor in numerous education programs in France (including several university degrees) and abroad, where she transmits her knowledge and experience in order to enable the medical staff to help patients to camouflage any temporary or permanent skin imperfections.

Being in daily contact with patients also helped her to appreciate the importance of therapeutic patient education. As the director of the patient education workshops in Avène, Joëlle Nonni is in charge of several programs that emphasize a global treatment approach of patients, including specific measures to promote skin health. Because of her practical experience, Joëlle Nonni is also involved in the extension and development of the medical makeup line of Laboratoires Dermatologiques Avène.

History of « Entretien d'Avène »

Historique des « Entretien d'Avène »

2002

Quality of life in dermatology
Qualité de vie en dermatologie

2003

Environment and photoprotection
Environnement et photoprotection

2004

Sensitive skin
Peaux sensibles

2005

Perspectives of dermatological hydrotherapy
Perspectives du Thermalisme dermatologique

2006

Children's skin
La peau de l'enfant

2007

How dermocosmetics can be helpful in oncology
La dermocosmétique au service de l'oncologie

2008

**Chronic skin diseases : answers for optimised therapeutic adhesion.
Interest of topical dermocosmetics**
Les dermatoses chroniques : réponses pour une observance optimisée.
Place des dermocosmétiques.

2009

Seniors and their skin
Les Seniors et leur peau

2010

What's new in acne ?
Quoi de neuf dans l'acné ?

2011

Facial redness and rosacea
De la couperose à la rosacée

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Pierre Fabre