

PASPCR

Newsletter

April 2008
Vol. 16 Number 1



Dear PASPCR Members -

We would like to announce some changes to the periodical PASPCR Newsletters that you will see in the coming year.

Effective January 1st, 2008, the PASPCR Newsletters editorial team will change: **William Oetting** who has done an amazing job in the last 8 years will step down from the Newsletters assignment. He will continue to co-ordinate and maintain the PASPCR web site (<http://www.paspcr.org>). The new editor of the Newsletters will be **Gertrude-Emilia Costin**, currently working at the Institute for In Vitro Sciences, Inc., Gaithersburg, MD as Toxicologist and Study Director. The current members of the editorial board, **Manickam Sugumaran** and **Richard Swank** will be replaced by the associate editor, **Prashiela Manga**, currently working in the Department of Dermatology, New York University School of Medicine, NY, NY as Research Assistant Professor, **William Oetting**, currently working in the Department of Medicine - Genetics, University of Minnesota, Minneapolis, MN as Assistant Professor, and **Andrzej Slominski**, currently working at the University of Tennessee, Memphis, TN as Professor of Pathology and who will also take over the secretary/treasurer position from **Raymond Boissy**.

Starting this year, the PASPCR Newsletters will be distributed via e-mail, in pdf format, on the first of April, August and December and it will continue to be posted on the web site of the society. Several new sections will be introduced this year, starting with this first issue as you will see in the coming pages. We greatly appreciate your feedback on these changes and welcome your ideas and suggestions for future issues.

We have setup an e-mail address to be used for correspondence regarding the PASPCR Newsletters (paspcr.newsletters@gmail.com) and we encourage you to use it to let us know what would like to see in the letters,

The PASPCR Web Site can be found at:

<http://www.paspcr.org>

suggest sections you think would be useful to include, and recommend any changes that you would like to see. We also encourage you to let us know about meetings that you think would be of interest to members of the society. Also, keep us updated of any "Members in the News" so we can spread the word of your successes.

The XXth International Pigment Cell Conference (IPCC) conjoined with the Vth International Melanoma Research Congress to be held in Sapporo, Japan, May 7-12, is just around the corner. We include in this issue a letter from the organizer, Dr. Kowichi Jimbow and the program of the meeting. The IPCC has always been the place to hear the latest science for pigment cell research as well as being a great opportunity to meet old and new friends. We hope to see you there!

We look forward to hearing your ideas and suggestions and to working together to compile the Newsletters for our society.

PASPCR Newsletter Editorial Team

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Caroline Le Poole
Prashiela Manga
Richard Spritz

IFPCS Representative:

Zalfa Abdel-Malek
(President, IFPCS and Past-President, PASPCR)
John Pawelek
(Past-President and IFPCS Representative)

Calendar of Events:

2008

**XXth International Pigment Cell Conference
and Vth International Melanoma Research Congress**

Contact: Kowichi Jimbow, M.D., Ph.D.

Date and place: May 7-12, Sapporo, Japan

Web site: <http://www.e-convention.org/ipcc-imrc2008>

2008

LVMH Recherche Shanghai International Science Symposium

Contact: Frederic Bonte, Ph.D.

Date and place: May 12, Shanghai, China

Web site: <http://www.lvmh-skinasiasymposium.com>

2008

**The Vth Joint Meeting of the European Society for
Dermatological Research (ESDR), Japanese Society for
Investigative Dermatology (JSID) and Society for
Investigative Dermatology (SID)**

Date and place: May 14-17, Kyoto, Japan

Web site: <http://iid2008.org>

2008

American Aging Association - 37th Annual Meeting

Date and place: May 30-June 2, Boulder, CO, USA

Web site: <http://www.americanaging.org/welcome.html>

2008

**3rd International Symposium for Vitiligo in Combination
with 2nd CME Asian Society for Pigment Cell Research**

Date and place: October 30, Riyadh, Saudi Arabia

Web site: <http://www.aspcr.org>

2008

**The 48th American Society for Cell Biology
Annual Meeting**

Date and place: December 13-17, San Francisco, CA, USA

Web site: <http://www.ascb.org>

2009

15th Annual Meeting of PASPCR

Contact: Andrzej Slominski, M.D., Ph.D.

E-mail: aslominski@utm.edu

Date and place: September 4-7, Memphis, TN, USA

2009

XVth Meeting of the ESPCR

Date and place: September 20-23, Münster, Germany

Web site: <http://www.espcr.org>

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Corporate Sponsors
by Andrzej Slominski

The PASPCR would like to acknowledge and thank our Corporate Sponsors; the list below reflects contributions over the past 2 years. Financial gifts from these sponsors have allowed our Society to increase benefits to the membership far out of proportion to the actual dues collected from members. Monies contributed by these sponsors have been used over the years to support various PASPCR functions including our Young Investigator Award program, meeting travel stipends, annual meeting expenses and this Newsletter.

GOLD Corporate Patrons
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I would like to add my personal thanks to Johnson & Johnson for the outstanding support of the society that has to be re-emphasized and Dr. Miri Seiberg for her contributions and continuous support of the PASPCR and its annual meetings. I would also like to thank Dr. Seymour Pomerantz for his voluntary contribution to support our society.

New PASPCR Members
by Andrzej Slominski

The PASPCR would like to welcome these new members to the Society:

Andrew Carlson
Albany Medical College
Albany, NY

David Fisher
Dana-Farber Cancer Institute Children's Hospital
Boston, MA

Jackie Granese
University of Tennessee
Memphis, TN

Ha-Young Hwang
National Cancer Institute
Bethesda, MD

Radomir Slominski
Emory University
Memphis, TN

PASPCR Election Results
by Andrzej Slominski

Congratulations to the new members of the PASPCR Council. Our new council members for the 2008-2010 term are:

Marjan Huizing
Ana Luisa Kadekaro
Prashiela Manga

We would like to thank:

William Oetting
William Pavan
Giselle Thibaudeau

for their service from 2005 to 2007.

Thank you!!!

Letter from PASPCR President

This is my first column as President although I have written for these pages before including a career prospective. A brief history – my interest in pigment cells began soon after arriving at the University of Arizona in 1977 when I was introduced to a large number of patients with melanoma in the clinic. Soon thereafter, Drs. Mac Hadley and Joe Bagnara approached me about joining their pigment cell group. Shortly after I had a chance profound two hour discussion with Makoto Seiji about life and science in Sendai, Japan - and I was on my way and forever hooked on the beauty of pigment cell biology.

The past year has been a time of more change for PASPCR than anytime since its startup 20 years ago: a new President, a new Secretary – Treasurer, a new Editor for PASPCR Newsletter, and possibly new website management. Also, the relationship between PASPCR and IFPCS and SMR (Society of Melanoma Research), a powerful new player is being defined; a large new group of pigment cell biologists have also emerged on the scene. Fortunately, John Pawelek, Immediate Past President, has agreed to cover the commentary series and to lead a new Diversity Initiative. I will address all these issues in upcoming columns but now let me lay out here the principles and goals that I anticipate following during my Presidency:

1. To promote our understanding of the biology of pigment cells and its role in normal and diseases states including poorly emphasized areas such as the eye, ear and brain as well as lower animals.
2. To continue to establish the role of pigment cell biology in understanding, preventing and treating diseases, especially melanoma.
3. To initiate a program in the biological and anthropological properties of pigment cells and the social consequences of pigment cells and the social consequences thereby.
4. To actively increase permanent membership of PASPCR from about 100 to 150.
5. To expand the base of stable financial support for PASPCR.

I feel a lot of new energy in the Society. Andrzej Slominski, our new Secretary-Treasurer, and I look forward to working with you and to help move PASPCR to new and higher heights.

Frank L. Meyskens Jr. M.D.
President, PASPCR

Letter from IFPCS President

Dear Friends, Members of PASPCR,

It is amazing how time flies! It seems like yesterday we were convening in Reston, Virginia, at the 19th IPCC. Now, we are on the door steps of the upcoming IPCC/SMR meeting in Sapporo. During the past three years, IFPCS has become more vibrant, and our societies continued to evolve rapidly. Two major changes have taken place. The IFPCS became more global with the growth and maturation of our youngest sister society, ASPCR. Our journal is now a partnership with the Society for Melanoma Research, which I consider natural, as melanocytes are the precursor for melanoma.

At a personal level, I wish to express to you how honored I have been to serve as IFPCS President. During the past three years, I was blessed by the many new friendships that I established with members of the various pigment cell societies. Attending the different pigment cell conferences became an event to look forward to. Particularly, I enjoyed meeting young members, students and postdoctoral trainees, future leaders of our societies that will move our specialty forward in the years to come.

Allow me to share with you a wonderful experience that I had during the past PASPCR meeting in Chicago. There were two young students, the youngest ever to attend such a meeting. James Fichtelman, a Junior in High School, and Ashley Dills, a Senior at

Marshall University. James, a bright student from Florida, became interested in pigment cell research after surgical removal of an abnormal mole from his leg, which left a big scar. This made him aware of his risk for skin cancer due to his light complexion. He presented a very interesting project that was directed by John Simon, Ph.D., and supervised by James Grichnick, M.D., Ph.D., both at Duke University, and members of PASPCR. Young James gave an outstanding oral presentation worthy of a postdoctoral fellow. He is now the youngest PASPCR member. Ashley Dills was mentored by Beverly Delidow, Ph.D. Ashley gave a superb oral presentation of her results on the inhibitory effects of retinoic acid on the canonical Wnt signaling pathway. The support and encouragement provided by the wonderful mentors who took the time to nurture and guide these young students reflect the true spirit of the pigment cell societies and the IFPCS. This is a testament for our dedication to insure the continuity of our beloved specialty by raising the new generation of pigment cell researchers.

As I get ready to pass the torch to the next IFPCS President, I foresee an ever growing and a more collaborative and global federation. I wish to thank all the fellow officers and council members, a strong team that strived to accomplish what is best for IFPCS. I want to thank all the members of the various societies, especially those that volunteered to serve in different capacities, as meeting organizers, journal editors, or newsletter publishers, etc. Serving our societies is an act of love that brings us together as a research community. I also thank our corporate sponsors that enabled us to organize high quality pigment cell conferences, and to bring our journal to the biggest number of readers.

I am looking very much forward to meeting you in Sapporo. Attending the IPCC is testament to our commitment to support our specialty and exchange scientific information in a friendly and cordial forum.

Zalfa Abdel-Malek, Ph.D.
IFPCS President

Letter to the Editor

I appreciate your willingness to assist me as I continue my research and journey to becoming a doctor or researcher. In the end, I hope to help others.

My story regarding melanoma research began when I was in the 4th grade. As a blonde hair and hazel eye youngster in Southern Florida, my skin was prone to the damaging effects of ultraviolet light (UV). Unfortunately, an abnormal mole signified my first hyperplasia. Soon after complete excision, I started researching the phenomenon which inflicted harm on me and many others around me.

I came to realize, through the American Cancer Society, that skin cancer leads all others. Multiple forms exist; these range from squamous and basal cell carcinoma to malignant melanoma. My desire to help others led me to the American Cancer Society where I have assisted with newsletters and Relay for Life promotions. Most recently, I pursued my passion on the scientific level.

After my sophomore year in high school, I began thorough research to understand the biology behind skin cancer and the physics of the UV rays which cause the mutations. My research led me to Dr. Simon at Duke University. Luckily, he and I were at Duke at the same time, and he discussed my science fair project idea with me. The final product of our discussion led my scientific testing. I used three phenotypes of planarians: black (*Dugesia dactyligera*), brown (*Dugesia tigrina*), and white (*Phagocata morgani*). The free living flatworms became the model assay because they are hermaphrodites, invertebrates, and tricladida; these worms are not subject to loads of paperwork and they are a readily available source that are easily maintained. The different species of planarians would be subject to specific wavelengths of UV light and a white light control. The UV and white light induction was conducted with peaked lamps produced at UVP Commercial in California. The results showed increased survival with the physically darker planarians. Gross analysis clearly shows the worms to become tan. The worms continue to tan until excessive UV causes necrosis of underlying tissue.

The worms of each test were preserved at different times during the tests to reveal morphology in the histology that was produced by Dr. Medalie of Pathology Associates of Indian River County. Microscopic investigation revealed a vast production of the planarian pigment granules, rhabdites, and a large proliferation of neoplastic cells. With a single induction of UV light, the planarians produced rhabdites from parenchymal rhabdoids in order to quench the harmful rays. The rhabdites resemble human melanosomes morphologically and histochemically. Special stains were inconclusive as to describe the exact nature of the pigment granules. After inquiry to Dr. Simon, he referred me to Dr. Grichnik of Duke's melanocytic disease wing of the Department of Dermatology. Dr. Grichnik graciously invited me to his house a couple weeks before the regional science fair to review my data. He became personally intrigued with the possibility that the rhabdites may be precursors to present human melanosomes. His advice helped me win best of show at the regional fair, place 2nd at state, and receive 3rd by Intel and 1st place by the Air Force at international.

Of particular interest were the monotonous sheets of single cells. Further analysis and comparison to Dr. Michio Morita's, Colorado State University work revealed that the eosinophilic cells which only appear after UV light are tumors. Dr. Morita induced a proven, identical malignancy using initiator cadmium and promoter TPA.

These results of planarian pigment as melanin and the neoplasia as skin cancer need more testing to validate a reasonable conclusion. My work has led me to meet wonderful people like Dr. Simon and Dr. Grichnik, who I plan to stay in contact with. Their wonderful characteristics brought me to the recent PASPCR meeting in Chicago where I presented my new abstract proposing the use of planarians as pigment biology models. After my presentation, I met Dr. Abdel-Malek, Dr. Westbrook, and Dr. Thibaudeau. Dr. Abdel-Malek at University of Cincinnati enjoyed my presentation and offered me a position as a member to the society. Dr. Westbrook of the NIH was intrigued by the model and offered me a summer internship with her and Dr. Gahl at

the NIH. Also, Dr. Thibaudeau of Mississippi State University has offered access to an electron microscope in order to take my study even further.

Words are unable to explain my enthusiasm to have met such wonderful people who assisted in the production of such a successful science fair project.

James Fichtelman
Vero Beach High School
Vero Beach, FL, 32960

A Message From the Organizer of the IPCC

To Members of Pan-American Society for Pigment Cell Research

The conjoint meeting of 20th International Pigment Cell Research and 5th International Melanoma Research will soon be held in Sapporo from May 7 to 12, 2008. The meeting will be co-organized by the Cabinet of Japan, Science Council of Japan. His Imperial Highness Prince Hitachi is Honorary Governor. Please note all the scientific programs will start from May 8, 2008. In this period of season, we expect to have the full bloom of cherry blossoms, and the day time is warm but it will be still cold/chilly in the evening. Please make sure you will bring your sweaters.

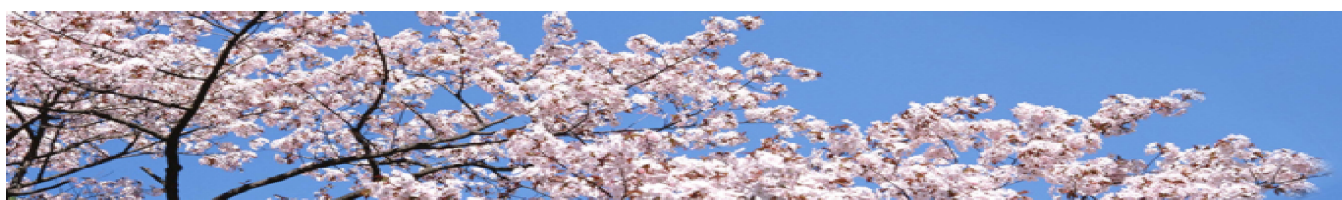
There is "golden-week national holiday" from April 28 to May 6, during which time many Japanese people take their holiday in Europe and America. Therefore travel from Asia, Europe and America will be very busy and it would be very difficult to get seats for air flight until May 5-6. However it will be much easier and become much cheaper for flight if you leave South and North America on May 6 and get in Japan on May 7. There are many flights from Narita and Haneda to Sapporo. There are Haneda-Sapporo flights in every 30 min. Again the domestic flight will become much cheaper from May 7 compared to that of May 6. If you fly from North America-Korea and China, there will be direct flights to Sapporo. Please make your travel plan as early as your convenience so that you will get the best price and good seat for the flight.

The theme of IPCC and IMRC2008, Sapporo is “Merger of Molecular Biology to Pigmentary Diseases and Melanoma; Translational Research and Preventive Medicine”. As can be seen in the web-site of this meeting, we will be addressing a number of important issues and topics dealing with human health, such as basic biology of melanin/melanosome biosynthesis, molecular and genetic regulation of pigmentary diseases and melanoma, clinical diagnosis and management of pigmentary diseases and melanoma, and their prevention. This meeting is the first and unique one in which basic scientists and clinicians from two independent societies conjoin together and discuss in the same place those topics related to pigmentation and melanoma which derive from one target of cells, melanocytes, the cells common to two societies. The details of scientific program including all abstracts will be published in Pigment Cell and Melanoma Research.

There are twenty four concurrent sessions. In each session three-four oral presentations will be chosen from the abstract submission. There will be poster sessions daily and each one of posters will be discussed and the best poster presentation award is set up.

We, the Organizing Committee of IPCC/IMRC 2008 wish to do our best to all participants enjoying this conference/congress. If you have any questions or concerns, please feel free at any time to contact through our e-mail (ipcc-imrc2008@sapmed.ac.jp) We all look forward to seeing you in Sapporo.

Kowichi JIMBOW, MD, PhD, FRCPC
Chair and President
Organizing and Program Committee of IPCC/
IMRC2008



***Merger of Molecular Biology with Pigmentary Diseases & Malignant Melanoma;
Translational Research & Preventive Medicine***



**XXth International Pigment Cell Conference
IPCC2008**

conjoined with



**Vth International Melanoma Research Congress
IMRC2008**

Date May 7 – 12, 2008

Venue Royton Sapporo, Japan

Organized by:

Science Council of Japan (SCJ)
International Federation for Pigment Cell Society (IFPCS)
Japanese Society for Pigment Cell Research (JSPCR)
Society for Melanoma Research (SMR)
Japanese Skin Cancer Society (JSCS)

Supported by:

Japanese Dermatological Association (JDA)
Japan Society of Clinical Oncology (JSCO)
The Zoological Society of Japan (ZSJ)
Japanese Society of Developmental Biologists (JSDB)

**SCIENTIFIC PROGRAM OF
20TH IPCC AND 5TH IMRC
May 7-12, 2008**

SCIENTIFIC PROGRAM OF 20TH IPCC AND 5TH IMRC (May 7-12, 2008)

ES= Early Bird Breakfast Seminar, PL= Plenary Session, LS= Luncheon Seminar,
CS= Concurrent Session, PP= Poster Presentation

May 7, Wednesday [day 1]

13:00-15:00	Crystal Room C
IFPCS Council Meeting (I)	
15:00-17:00	Emerald Room
Regional Council Meeting (PASPCR, ESPCR, JSPCR and ASPCR)	
17:00-20:00	
Registration (North Entrance of Royton Sapporo)	
19:00-21:00	Royton Hall A
Welcome Reception sponsored by Neways Inc.	

May 8, Thursday [day 2]

8:30-20:00 (May 8 – 12)	
Registration	
7:30-8:30	
Early Bird Breakfast Seminar	
[ES-01] ROHTO Pharmaceutical Co., Ltd.: Depigmenting effect of vitamins	Empress Hall
Chair: KAWASHIMA Makoto (Tokyo Woman's Christian University, Japan)	
ES1-1 Depigment effect of vitamins	
Yoko Funasaka	
[ES-02] Taiho Pharmaceutical Co., Ltd.: Melanoma prevention and chemotherapy	Highness Hall
Chairs:	
SOBER Arthur J. (Harvard Medical School, USA)	
SMYLIE Michael (Cross Cancer Institute, Canada)	
ES2-1 Screening, early detection: current status and future directions	
Arthur J. Sober	
ES2-2 Melanoma chemotherapy	
Michael Smylie	
8:45-9:05	Royton Hall B, C
Opening ceremony for conjoint meeting of IPCC and IMRC	
Congratulatory Address:	
President of Science Council of Japan	
Governor of Hokkaido	
Honorary Governor, His Imperial Highness Prince Hitachi	
Congratulatory Message:	
Prime Minister of Japan, Yasuo Fukuda	
9:05-11:05	Royton Hall B, C
Opening Keynote Speeches from Conjoint Meeting of IPCC and IMRC	
Keynote-1: President of IFPCS	
Control of epidermal human melanocyte survival and function by the cutaneous microenvironment	
Zalfa Abdel-Malek (Universtiy of Cincinnati, USA)	

Keynote-2: President of SMR
Melanocyte signaling and transcriptional responses in skin and skin cancer
David Fisher (Massachusetts General Hospital, USA)

Keynote-3: Thomas B. Fitzpatrick Memorial Lecture
Malignant melanoma, the sentinel lymph node and the metastatic phenomenon
Martin Mihm (Harvard Medical School, USA), sponsored by American Skin Association

Keynote-4: President of Conjoint Meeting
Melanin biology and translational research strategy
Kowichi Jimbow (Sapporo Medical University, Japan)

11:10-12:45

Royton Hall B, C

Plenary Session

Takeuchi Medal Presentation from IFPCS

[PS-01] Structural and functional aspects of melanin pigmentation; Role of melanin pigmentation in biological behavior and development

[PS-02] Hormonal regulation of melanin pigmentation; Function of proopiomelanocortin and melanocortin

Chairs:

GARCÍA-BORRÓN Jose-Carlos (University of Murcia, Spain)

YU Hsin-Su (Kaohsiung Medical University, Taiwan)

OSHIMA Noriko (Toho University, Japan)

PL-1 What's the role of melanin pigmentation in visual and auditory senses?

Hiroaki Yamamoto

PL-3 Functional analysis of human mahogunin RING finger-1 isoforms

Ana B Perez-Oliva, Concepcion Olivares, Celia Jimenez-Cervantes, **Jose C Garcia-Borron**

PL-4 MC1R dependent human pigmentation responses

Richard A. Sturm

13:00-14:00

Luncheon Seminar

[LS-01] Kao Co.: Effect of endotheline and stem cell factor on melanocytes and their involvements in skin pigmentation

Chair: **SHIBAHARA Shigeki** (Tohoku University, Japan)

Royton Hall B, C

LS1-1 Identification of roles of MITF in human melanocytes: Implication as a new target for anti-melanogenic agents

Genji Imokawa

LS1-2 Stem cell factor signaling system: involvement of soluble KIT and skin pigmentation

Atsushi Ohuchi

[LS-02] Johnson & Johnson Skin Research Center: An alternative approach to skin color modulation, the PAR-2 pathway

Royton Hall D

Chair: **COLE Curtis** (Johnson & Johnson Skin Research Center, USA)

LS2-1 Multiple skin care benefits of non-denatured soybean extracts

Connie Lin, Violetta Stone, Jue-chen Liu, Stanley Shapiro, **Miri Seiberg**

14:15-15:45

Concurrent Session

[CS-01] Chemistry and biophysics of melanin

Royton Hall B, C

Chairs:

NAPOLITANO Alessandra (University of Naples Federico II, Italy)

SARNA Tadeusz (Jagiellonian University, Poland)

CS1-1 Melanins and melanogenesis: What can we learn from chemical studies?

Alessandra Napolitano, Lucia Panzella, Alessandro Pezzella, Marco d'Ischia

CS1-2 Spin photochemistry of eumelanin and pheomelanin: role of singlet and triplet excited states in photogeneration of melanin radicals

Tadeusz Sarna, Anthony R Marino, Lucia Panzella, Grzegorz Szewczyk, Alice Wang, Mariusz Zareba, Alessandra Napolitano, James R Norris, Jr.

CS1-3 Melanin quantification: *in vitro* and *in vivo* analysis via near infrared fluorescence
Sunil Kalia, Harvey Lui, Jianhua Zhao, Haishen Zeng, David McLean

CS1-4 Reexamination of microanalytical methods for melanin assay
Kazumasa Wakamatsu, Shosuke Ito, Yoko Niki, Tomohisa Hirobe, Murray Brilliant

CS1-5 GC-MS analysis of structural components of pheomelanin
Dzeneta Nezirevic Dernroth, Annica Rundstrom, Kerstin Arstrand, Bertil Kagedal

[CS-02] Melanophore development and differentiation

Royton Hall D

Chairs:

KELSH Robert N. (University of Bath, UK)

KONDO Shigeru (Nagoya University, Japan)

CS2-1 Experimental analysis of a gene regulatory network underlying zebrafish melanocyte development
Robert N. Kelsh, Emma Greenhill

CS2-2 Interactions among the zebrafish pigment cells that makes the stripe pattern
Shigeru Kondo

CS2-3 Small-molecules that control melanocyte development and movement: a zebrafish approach to identify new research tools and drug-lead discovery

Hironori Ishizaki, John Maule, Susan Lynas, David J Harrison, Mike Tyers, E. Elizabeth Patton

CS2-4 The effects of epinephrine and MSH on ultrastructural changes associated with color change in the Panther chameleon

Randall Morrison, William Monroe, Michelle Debaugh, Giselle Thibaudeau

CS2-5 Temperature- and time-induced expression of Tyr and Tyrp2/DCT in a salmon leukocyte cell line
Erling O. Koppang, Henning Sorum, Jim Thorsen, Qirong Huang, Espen Rimstad

[CS-03] Animal and experimental models of pigmentary diseases and melanoma

Empress Hall

Chairs:

SPRITZ Richard A. (University of Colorado, USA)

DUVAL Christine (L'Oréal Recherche, France)

CS3-1 The genetics of generalized vitiligo

Richard A. Spritz

CS3-2 *In vitro* organotypic models to study skin pigmentation

Christine Duval, Corinne Chagnoleau, Francoise Bernerd

CS3-3 Inhibition of MEK with AZD6244 is cytostatic as a monotherapy in melanoma, but cytotoxic when combined with docetaxel leading to tumor regression

Nikolas K. Haass, Katrin Sproesser, Thienna K. Nguyen, Rooha Contractor, Meenhard Herlyn, Keiran S. Smalley

CS3-4 Induction of melanoma in mice: the role of UVR-induced melanocyte proliferation and migration

Graeme Walker, Michael Kimlin, Elke Hacker, H. Konrad Muller, Nicholas Hayward

CS3-5 Fish models for human melanoma research

Manfred Scharf, Brigitta Wilde, Juliette Laisney, Claudia Leikam, Janka Teutschbein, Johannes Haydn, Daniel Liedtke, Luciana Menescal, Kathrin Denker, Albert Sickmann, Birgit Samans, Michael Krause, Ron Walter, Svenja Meierjohann

16:00-17:30

Concurrent Session

[CS-04] Melanosome biosynthesis and transport

Royton Hall B, C

Chairs:

FUTTER Clare E. (University College London, UK)

RAPOSO Graça (Institute of Curie, France)

CS4-1 Ultrastructural analysis of melanosome biogenesis

Graca Raposo, Ilse Hurbain, Willie Geerts, Cedric Delevoye, Guillaume van Niel, Daniele Tenza, Michael Marks

CS4-2 Melanosome biogenesis, transport and function in retinal pigment epithelial cells

Clare E. Futter, Vanda S. Lopes, Silene T. Wavre, Miguel C. Seabra

CS4-3 Genome wide siRNAi-based functional genomics identifies autophagy as a required biological process for melanin production in human cells

Anand Ganesan, Hsiang Ho, Michael White

CS4-4 The analysis of rab27a expression in melanocytes with varying melanin content: implications for human skin complexion

Yasuko Amano, Akira Hachiya, Atsushi Ohuchi, Takashi Kitahara, Raymond E. Boissy, Mitsunori Fukuda

CS4-5 The mechanism of melanin dispersion in human skin by ultraviolet (UV) radiation

Yoshinori Miyamura, Kathrin Schlenz, Thomas Blatt, Jan Batzer, Wonseon Choi, Sergio G. Coelho, Wilfred D. Vieira, Takeshi Namiki, Rainer Wolber, Vincent J. Hearing

[CS-05] Stress responses and cell signaling in melanocytes and melanoma

Royton Hall D

Chairs:

MARAIS Richard (Institute of Cancer Research, UK)

COMMO Stéphane (L'Oréal Recherche, France)

CS5-1 BRAF signalling in melanoma

Nathalie Dhomen, Claudia Wellbrock, Silvy Da Rocha Dias, Robert Hayward, Sareena Rana, Hugh Paterson, Leslie Ogilvie, Douglas Hedley, Caroline Springer, Jorge S. Reis-Filho, Kathryn Mercer, Kay Savage, Susan Giblett, Catrin Pritchard, Deborah Henderson, Veronique Delmas, Lionel Larue, **Richard Marais**

CS5-2 TRP-2 functions in stress response

Stephane Commo, Quentin Michard, Bruno B. Bernard

CS5-3 Up-regulation of Mcl-1 by the unfolded protein response is critical for survival of melanoma cells upon ER stress

Xu Dong Zhang, Chen Chen Jiang, Kelly A. Avery-Kiejda, Keryn Lucas, Margaret Wade, John Allen, Peter Hersey

CS5-4 HO-1 and HO-2 expression are oppositely regulated by UV-A in melanocytes; relevance to vitiligo

I. Caroline Le Poole, Yasser Ellassiuty

CS5-5 Control of epidermal human melanocyte survival and function by the cutaneous microenvironment

Zalfa A. Abdel-Malek, Ana L. Kadekaro, Viki B. Swope, Renny J. Starner

[CS-06] Development and differentiation of pigment cells

Empress Hall

Chairs:

PARK Kyoung-Chan (Seoul National University, Korea)

NISHIMURA Emi (Kanazawa University, Japan)

CS6-1 Hypopigmenting strategies based on signal regulation of melanogenesis

Kyoung Park, Dong-Seok Kim, Seo-Hyoung Park, Hyun-Kyung Lee, Ick-Dong Yoo

CS6-2 Role of transforming growth factor beta in melanocyte stem cell renewal

Emi Nishimura, Misa Suzuki, Vivien Igras, Ken Inomata, Hans Widlund, Jinyan Du, Friedrich Beermann, Lionel Larue, Jurgen Roes, David Fisher

CS6-3 Notch1 and Notch2 signaling through RBP-J δ is essential for proper hair pigmentation and RPE development in the mouse

Karine Schouwey, Lionel Larue, Veronique Delmas, Ursula Zimmer-Strobl, Lothar Strobl, Freddy Radtke, Friedrich Beermann

CS6-4 Characterization of melanocyte label-retaining cells (LRCs) by microarray analysis

Ha-Young Hwang, Ganesh Diwakar, Shunlin Jiang, Aleksandra M. Michalowska, Muhammad R. Zaidi, Glenn Merlino, Thomas J. Hornyak

CS6-5 c-Myc is required for melanocyte development

Irina Pshenichnaya, Veronique Delmas, Lionel Larue, Andreas Trumpp, Friedrich Beermann

17:45-18:30

Poster Discussion #1 (PP1-1 - PP6-11)

Regent Hall & Foyer

19:00-20:30

Clinical pathological conference for difficult cases

Royton Hall D

Chairs & Organizers:

ELDER David (University of Pennsylvania School of Medicine, USA)**HASEGAWA Tadashi** (Sapporo Medical University, Japan)**MITSUHASHI Tomoko** (Sapporo Medical University, Japan)

19:00-22:00

Pearl Hall A, B**Satellite meeting of pigment cell development interest group**

Organizers:

KUNISADA Takahiro (Gifu University, Japan)**YAMAMOTO Hiroaki** (Tohoku University, Japan)**May 9, Friday [day 3]**

7:30-8:30

Early Bird Breakfast Seminars**[ES-03] L'Oréal Recherche: Photobiology and photoprotection****Empress Hall**Chair: **SHIBAHARA Shigeki** (Tohoku University, Japan)

ES3-1 Epidermal homeostasis revisited with heme catabolism: lessons from newborns

Shigeki Shibahara

ES3-2 Skin response to ultraviolet exposure: influence of constitutive pigmentation

Francoise Bernerd, Christine Duval, Juliette Sok, Evelyne Bessac, Sandra Del Bino

ES3-3 The microenvironment as regulator of melanocyte transformation and melanoma progression

Meenhard Herlyn, Akihiro Yoneta, Ronan McDaid, Patricia Possik, Masahiro Oka, John Lee**[ES-04] Novartis Pharma K. K.: Hormones and pigments in fungus, plants, animals and humans****Highness Hall**

Chairs:

BOROVANSKY Jan (Charles University, Czech Republic)**ITO Shosuke** (Fujita Health University, Japan)

ES4-1 Melanogenesis and its hormonal regulation: evolution and biological implications of the pigmentary system

Andrzej Slominski

ES4-2 Comparative chemistry of pigment formation in fungi and bacteria

Shosuke Ito

ES4-3 Quantitative analysis of eumelanin and pheomelanin in humans, mice and other animals

Kazumasa Wakamatsu

8:45-10:45

Plenary Session Royton**Royton Hall B, C****[PS-03] Developmental biology and genetics of melanin pigmentation****[PS-04] Biosynthesis, trafficking and transfer of melanosomes**

Chairs:

AKIYAMA Toyoko (Keio University, Japan)**CHANG Chung-Hsing** (Tzu Chi University, Taiwan)**ARNHEITER Heinz** (National Institute of Health, USA)**KOPPANG Erling** (Noewagian School of Veterinary, Norway)

PL-5 Non-invasive methods and skin pigmentation

Olivier De Lacharriere, Stephanie Nouveau, Paul Krien

PL-6 The role of MITF isoforms during pigment cell development

Heinz Arnheiter, Xin Wang, Kapil Bharti, Julien Debbache, Susan Skuntz, Wenfang Liu, Keren Bismuth, Jon H. Hallsson, Eirikur Steingrimsón

PL-7 Protein-protein interactions in melanosome biogenesis

Vijay Setaluri, Rajendra Kedlaya

PL-8 Defects in melanosome biogenesis and protein sorting in mouse models of Hermansky-Pudlak syndrome

Michael S. Marks, Subba RG Setty, Anand Sitaram, Daniele Tenza, Alexander C. Theos, Elena V.

Sviderskaya, Esteban C. Dell'Angelica, Dorothy C Bennett, Graca Raposo

11:00-12:30

Concurrent Session

[CS-07] Neural crest and melanocyte differentiation

Royton Hall B, C

Chairs:

WEHRLE-HALLER Bernhard (University of Geneva, Switzerland)

HIROBE Tomohisa (National Institute of Radiological Sciences, Japan)

CS7-1 Synergies between integrin receptors and Kit-signalling regulate melanocyte migration and differentiation

Bernhard Wehrle-Haller, Perrine Pinon, Monique Wehrle-Haller, Marie-Claude Jacquier

CS7-2 Ferrous ferric chloride stimulates the proliferation and differentiation of cultured keratinocytes and melanocytes in the murine neonatal epidermis

Tomohisa Hirobe

CS7-3 *Foxd3* regulates specification of pigment cell types in the zebrafish neural crest

James A. Lister, Kevin Curran, Melinda Modrell, Kim Nguyen, David W. Raible

CS7-4 A sensitized mutagenesis screen identifies modifiers of *Sox10* neurocristopathies

William J. Pavan, Ivana Matera, Dawn Watkins-Chow, Stacie Loftus, Ling Hou, Debra Silver, Laura Baxter

CS7-5 Multipotent cell fates of melanocyte precursors isolated from embryonic and neonatal skin

Tsutomu Motohashi, Katsumasa Yamanaka, Takahiro Kunisada

[CS-08] Pigmentary disorders; albinism

Royton Hall D

Chairs:

TOMITA Yasushi (Nagoya University, Japan)

MONTOLIU Lluís (National Center of Biotechnology, Spain)

CS8-1 Oculocutaneous albinism and dyschromatosis symmetrica hereditaria

Yasushi Tomita, Taisuke Kondo, Michihiro Kono, Tamio Suzuki

CS8-2 Revisiting transgenic mouse models of oculocutaneous albinism type I and their associated visual and hearing alterations

Lluís Montoliu, Esther Zurita, Marta Cantero, Silvia Murillo, Julio Contreras, Pedro de la Villa, Isabel Varela-Nieto

CS8-3 A role for the pink-eyed dilution protein in tyrosinase folding

Prashiela Manga, Kristen Knoll, Jeremy Fenton, Seth J. Orlow

CS8-4 What we can learn from mutations in the oculocutaneous typeII(OCA2)gene about African migrations “in” and “out of Africa”?

Robert R Aquaron, Jean louis Berge-Lefranc, Bernard Grandchamp

CS8-5 Determinants of proper folding in the metal ion binding sites of tyrosinase and tyrosinase-related protein 1

Daniela Fiorentino, Anna Gallone, **Jose Carlos Garcia-Borrón**, Concepcion Olivares

12:45-13:45

Luncheon Seminar

[LS-03] Kanebo Cosmetics Inc.: A new biphenyl derivative, Magnolignan; its effects on skin pigmentation with a new mechanism

Royton Hall B, C

Chairs:

KUMARASINGHE Prasad (National Skin Centre, Singapore)

NAKAGAWA Hidemi (Jikei Medical University, Japan)

LS3-1 A new biphenyl derivative, Magnolignan; its effects on skin pigmentation with a new mechanism

Minoru Sasaki, Shinichi Watanabe

[LS-04] Shiseido Co., Ltd.: Current topics in skin pigmentation

Royton Hall D

Chair: **MIZOGUCHI Masako** (St Marianna University, Japan)

LS4-1 Melanocyte stem cells: as a model to study stem cell biology

Masatake Osawa

LS4-2 A mechanism of hyperpigmentation - immunohistochemical and transcriptional analysis of pigmented lesions

Hirofumi Aoki

12:45-13:45

Women Scientist Forum

Empress Hall

Organizers:

MEDRANO Estela (Baylor College of Medicine, USA)

OSHIMA Noriko (Toho University, Japan)

14:00-15:30

Concurrent Session

[CS-09] Signaling cascade in melanocyte and melanoma

Royton Hall B, C

Chairs:

KUNISADA Takahiro (Gifu University, Japan)

LARUE Lionel (Institut Curie, France)

CS9-1 Signal transduction and life cycle of melanocytes

Takahiro Kunisada, Hitomi Aoki, Tsutomu Motohashi

CS9-2 Signalling and molecular targets for melanoma therapy

Juergen C. Becker, Eva-B. Bröcker, Roland Houben

CS9-3 Characterization of the influence of fibroblasts on melanocyte function and pigmentation

Wonseon Choi, Rainer Wolber, Wolfram Gerwat, Tobias Mann, Vincent J. Hearing

CS9-4 TPA inhibits melanoma growth by inactivation of STAT3 through PKC-activated tyrosine phosphatase(s)

Masahiro Oka, Masanobu Sakaguchi, Naoko Sumita, Toshinori Bito, Toshiro Kageshita, Michitaka Ozaki, Ken-ichi Sato, Yasuo Fukami, Chikako Nishigori

CS9-5 Direct observation of SHOC2-based compartmentalization of Ras signaling in plasma membrane of living melanocytes

Takeshi Kobayashi, Mizuna Tanaka, Yoshie Takeda, Masahiro Sokabe

CS9-6 Cyclic AMP signaling as a mediator of vasculogenic mimicry in aggressive human melanoma cells

Patrick Verrando, Danielle Parriaux, Dominique Lombardo

[CS-10] Pigmentary disorders; depigmenting diseases (vitiligo & related disorders)

Royton Hall D

Chairs:

GAHL William A. (National Institutes of Health, USA)

BOISSY Raymond E. (University of Cincinnati, USA)

CS10-1 Human disorders involving melanocyte organelles

William A. Gahl, Wendy Westbroek, Marjan Huizing, Meral Gunay-Aygun, Amanda Helip-Wooley, Heidi Dorward, Lisa Vincent, Richard Hess, Roxanne Fischer, James G. White

CS10-2 Loss of presenilin-1 and gamma secretase activity in melanocytes results in hypopigmentation: Relevance to Alzheimers disease?

Raymond E Boissy, Hui Zheng, Runsheng Wang, Hugh Gloster, Amy Koshoffer

CS10-3 Differential mechanism of cell death induced by topical depigmenting agents 4-TBP and MBEH

I. Caroline Le Poole, Vidhya Hariharan, Jared Klarquist, Raymond E. Boissy

CS10-4 The Smyth line chicken model for autoimmune vitiligo: opportunity to examine events leading to the expression of vitiligo in susceptible individuals

Gisela F. Erf, Collin T. Trovillion, Bryan L. Plumlee, Kristin D. Bateman, Fengying Shi

CS10-5 Membrane alterations and signal transduction in vitiligo cells

Maria Lucia Dell'Anna, Monica Ottaviani, Barbara Bellei, Mauro Picardo

15:45-17:15

Concurrent Session

[CS-11] Pigmentary disorders; hyperpigmentation (melasma, senile freckles and other related diseases)

Royton Hall B, C

Chairs:

PICARDO Mauro (San Gallicano Dermatological Institute, Italy)

SEIBERG Miri (Johnson & Johnson Skin Research Center, USA)

SARKAR Rashmi (Maulana Azad Med College, India)

CS11-1 Tyrosinase and inhibitors of pigmentation

Mauro Picardo, Stefania Briganti, Giorgia Cardinali, Enrica Flori, Vittoria Maresca

CS11-2 The role of KGF and IL-1 α in melanogenesis: A possible molecular mechanism for the initiation of hyperpigmentary lesions

Nannan Chen, Wen-Hwa Li, Yaping Hu, Li Zhang, Magdalena Eisinger, **Miri Seiberg**, Connie Lin

CS11-3 Physiological, biochemical and genetic profiles of the black-boned sheep (*Ovis aries*)

Weidong Deng, Dongmei Xi, Xiao Gou, Shuli Yang, Huaming Mao

CS11-4 Lower frequency of cell division of melanin-containing keratinocytes causes long-lasting pigmentation in solar lentigo skin

Hirofumi Aoki, Tomoko Onodera, Junichi Hosoi, Masato Hatao

CS11-5 The caucasoid/negroid switch is associated with a proliferation/differentiation imbalance in a human xenograft model

Muriel Cario-Andre, Catherine Pain, Gabriele Delia, Daniela Masia, Vincent Casoli, Alain Taieb

[CS-12] UVR, DNA repair and melanin pigmentation/melanoma

Royton Hall D

Chairs:

MERLINO Glenn (National Cancer Institute, USA)

NOONAN Frances P. (George Washington University, USA)

CS12-1 Mechanisms in UV-induced melanoma

Frances P. Noonan, Jesse Bahn, Heather Poetschke-Klug, Miriam Anver, Agnieszka Wolnicka-Glubisz, Glenn Merlino, Edward De Fabo

CS12-2 Expression and regulation of Aldo-Keto Reductase (AKR) 1C subfamily genes in skin by UV

Yari E. Marin, Connie B. Lin

CS12-3 Inhibition of PAX3 by TGF-beta; Modulates melanocytes viability

Rutao Cui, Hong Xin, Guang Yang, Shipla Keerthivasan, Anyu Zhou, Yitang Li, Jianzhong Qin, Mitchell Denning, Brian Nickoloff, **Wei Feng**

CS12-4 Novel role for α -MSH reveals the regulation of p53 function in human melanocytes exposed to UVB

Ana Luisa Kadekaro, Nicole Mosby, Jennifer Yang, Renny Kavanagh, Viki Swope, Zalfa Abdel-Malek

CS12-5 Shedding light on the dim beginnings of melanoma

Glenn Merlino, Linan Ha, Raza Zaidi, Elena Sviderskaya, Dot Bennett, Paul Meltzer, Ed De Fabo, Frances Noonan

17:30-18:15

Poster Discussion #2 (PP7-1 – PP12-8)

Regent Hall & Foyer

19:00-21:00

IPCC/IMRC Tour to Sapporo Beer Garden

(Address: Kita 7-jo Higashi 9-chome, Higashi-ku, Sapporo, Tel: 011-742-1531
<http://www.sapporo-bier-garten.jp/english.html>)

May 10, Saturday [day 4]

7:30-8:30

Early Bird Breakfast Seminar

[ES-05] Integral Corporation: Diagnosis of pigmented lesions using imaging technology

Chair: **SAIDA Toshiaki** (Shinshu University, Japan)

Empress Hall

ES5-1 Diagnosis of pigmented lesions using imaging technology

Hiroshi Koga

[ES-06] Daiichi-Sankyo Co., Ltd.: Interferon and melanoma

Highness Hall

Chairs:

YAMAMOTO Akifumi (Saitama Medical University, Japan)

EGGERMONT Alexander M. (Erasmus University Medical Center, Netherlands)

ES6-1 Usefulness of IFN-beta in melanoma treatment

Akifumi Yamamoto

ES6-2 Adjuvant therapy with pegylated interferon α -2b versus observation in resected stage III melanoma: final results of EORTC 18991, a randomised phase 3 trial

AMM Eggermont, S Suci, M Santinami, A Testori, W Kruit, J Marsden, CJA Punt, F Salès, M Gore, R McKie, V Kusic, R Dummer, E Musat, A Spatz, U Keilholz. For the EORTC Melanoma Group

8:45-10:45

Plenary Session

Royton Hall B, C

[PS-05] Stem cells and ontogeny in melanocytes and melanoma
[PS-06] Pigmentation and molecular epidemiology of melanoma

Chairs:

BERWICK Marianne (University of New Mexico, USA)

HERLYN Meenhard (Wistar Institute, USA)

OTSUKA Fujio (Tsukuba University, Japan)

PL-9 Microenvironmental signals required for melanocyte stem cell

Shin-ichi Nishikawa

PL-10 Melanocyte and melanoma stem cells

Meenhard Herlyn, Ling Li, Susan Zabierowski, Nga Nguyen, Jennifer Marmion, Katrin Sproesser, Trish Brafford, Ben Himes, Mizuho Fukunaga-Kalabis

PL-11 Frequent somatic mutations of GNAQ in uveal melanoma and intradermal melanocytic proliferations

Boris Bastian, Catherine van Raamsdonk, Vladimir Bezrookove, Gary Green, Juergen Bauer, Lona Gaugler, Elizabeth Simpson, Greg Barsh

PL-12 Pigmentation and the molecular epidemiology of melanoma

Marianne Berwick

11:00-12:30

Concurrent Session

[CS-13] MITF in melanocytes and melanoma

Royton Hall B, C

Chairs:

SHIBAHARA Shigeki (Tohoku University, Japan)

STEINGRIMSSON Eirikur (University of Iceland, Iceland)

CS13-1 The MITF history and perspective

Shigeki Shibahara

CS13-2 Signalling to the Mitf transcription factor in mouse melanocytes

Eirikur Steingrímsson, Kristin Bergsteinsdóttir, Georg L. Bauer, Praetorius Christian, Jon H. Hallsson, Bryndis K. Gísladóttir, Norene O'Sullivan, Debbie Swing, Neal G. Copeland, Nancy A. Jenkins

CS13-3 *In vivo* switching of human melanoma cells between proliferative and invasive states

Keith S. Hoek, Ossia M. Eichhoff, Natalie C. Schlegel, Udo Doebbeling, Nikita Kobert, Leo Schaerer, Silvio Hemmi, Reinhard Dummer

CS13-4 Mitf contributes to melanosome distribution and melanophore dendricity

Akiha Kawasaki, Mayuko Kumasaka, Akira Satoh, Makoto Suzuki, Koji Tamura, Toshiyasu Goto, Makoto Asashima, Hiroaki Yamamoto

CS13-5 MITF and cell proliferation: the role of exon2B

Keren H Bismuth, Susan Skuntz, Jon H Hallsson, Eirikur Steingrímsson, Heinz Arnheiter

[CS-14] Molecular and surgical pathology

Royton Hall D

Chairs:

RUITER Dirk J. (Radboud University Medical Center, Netherlands)

ELDER David E. (University of Pennsylvania, USA)

CS14-1 Mutation analysis and gene copy number detection as diagnostic aids in the assessment of melanocytic tumors: progress and pitfalls

Dirk J. Ruiter, Marcory van Dijk, Suzanne Mol, Annelies Klaasen, Marjolein Ligtenberg, Willeke Blokx

CS14-2 Molecular and histopathology of melanoma

David E. Elder

CS14-3 Cyclobutane pyrimidine dimer formation and p53 production in human skin after repeated UV exposures

Yuji Yamaguchi, Sergio G. Coelho, Barbara Z. Zmudzka, Kaoruko Takahashi, Akimichi Morita, Janusz Z. Beer, Sharon A. Miller, Vincent J. Hearing

CS14-4 Brn3a, a new marker for human melanoma, promotes cell survival via inactivation of p53

Tobias Hohenauer, Carola Berking, Michaela Brenner, Martin Irmeler, Johannes Beckers, Robert Besch

CS14-5 Cyclin D1 is an independent predictor factor for sentinel node metastatic behavior

Gilles Landman, Camila Hagui, Fregnani JH, Duprat Fo. JP

12:45-13:45

Luncheon Seminar

[LS-05] **Banyu Pharmaceutical Co., Ltd.: The treatment strategy for androgenetic alopecia (AGA)**

Chair: **KAWASHIMA Makoto** (Tokyo Women's Medical University, Japan)

Royton Hall B, C

LS5-1 How to apply follicular stem cell in regeneration medicine

Motonobu Nakamura

LS5-2 Clinical experience of androgenetic alopecia

Shigeki Inui

[LS-06] **Johnson & Johnson Skin Research Center: UVA sunscreen protection - how much is enough???**

Chair: **SEIBERG Miri** (Johnson & Johnson Skin Research Center, USA)

Royton Hall D

LS6-1 UVA Protection - How much is enough?

Curtis A. Cole

Pearl Hall A, B

12:45-13:45

IFPCS Council Meeting (II)

14:00-15:30

Concurrent Sessions

[CS-15] **Immunobiology and immunotherapy of melanoma**

Royton Hall B, C

Chairs:

HODI F. Stephen (Dana-Farber Cancer Institute, USA)

KAWAKAMI Yutaka (Keio University, Japan)

CS15-1 Effective anti-tumor immunity without serious autoimmunity in previously vaccinated patients receiving CTLA-4 blockade

F. Stephen Hodi, Jun Zhou, Noah K. Yuen, Philip Friedlander, Christopher Corless, Michael Heinrich, Xiaofeng Jiang, Hans R. Widlund, David E. Fisher

CS15-2 Immunosuppression induced by melanoma during epithelial-mesenchymal transition

Chie Kudo-Saito, Tadashi Takeuchi, Hiromi Shirako, Yutaka Kawakami

CS15-3 The secretion of IL-1 α by human melanoma cells acts as an autocrine and paracrine factor to promote tumor progression

Miyako Okamoto, Aki Tanaka, Daniel C.F. Chan, Yiqun G. Shellman, David A. Norris, Charles A. Dinarello, Mayumi Fujita

CS15-4 Identification of a novel cancer-testis antigen calreticulin2 (CRT2) frequently expressed in melanoma

Tomonori Yaguchi, Emiko Hayashi, Go Hasegawa, Tomonobu Fujita, Toshiro Kageshita, Makoto Sano, Yuriko Matsuzaki, Yutaka Kawakami

CS15-5 Melanoma-specific intracellular hyperthermia using NPrCAP/M elicits immunogenic cell death by releasing heat shock protein-peptide complex

Akiko Sato, Yasuaki Tamura, Noriyuki Sato, Toshiharu Yamashita, Tomoaki Takada, Makito Sato, Ichiro Ono, Akira Ito, Hiroyuki Honda, Kazumasa Wakamatsu, Syosuke Ito, Kowichi Jimbow

[CS-16] **Melanoma models; genetics and familial melanoma**

Royton Hall D

Chairs:

BRÖCKER Eva-B. (University of Wuerzburg, Germany)

TSAO Hensin (Harvard Medical School, USA)

CS16-1 Melanoma models

Eva-B. Bröcker

CS16-2 Deconstructing and reconstructing the genetics of melanoma

Hensin Tsao

CS16-3 A gene for premature hair greying maps to chromosome 9q34

Olivier De Lacharriere, Jean-Louis Blouin, Emmanouil T. Dermitzakis, Claire Deloche, Pilar Galan, Philippe Bastien, Genevieve Duriaux-Sail, Maryline Gagnebin, Corinne Gehrig, Aude Christen, Stephane Commo, Bruno A Bernard, Serge Hercberg, Stylianos Antonarakis

CS16-4 Association between MC1R variant alleles and the risk for malignant melanoma in Israeli Jews

Esther Azizi, Gilli Galore-Haskel, Hamida Mohamdi, Alon Scope, Valerie Chaudru, Felix Pavlotsky, Florence Demenais, Eitan Friedman

CS16-5 A *cis*-acting regulatory mutation causes premature hair greying and susceptibility to melanoma in the horse

Elisabeth Sundström, Gerli Rosengren Pielberg, Anna Golovko, Ino Curik, Johan Lennartsson, Monika H. Seltenhammer, Thomas Druml, Matthew Binns, Carolyn Fitzsimmons, Gabriella Lindgren, Kaj Sandberg, Roswitha Baumung, Monika Vetterlein, Sara Strömberg, Manfred Grabherr, Claire Wade, Kerstin Lindblad-Toh, Fredrik Pontén, Carl-Henrik Heldin, Johann Sölkner, Leif Andersson

14:00-15:30

Open class to the public “Vitiligo and Albinism”

Organizers:

TOMITA Yasushi (Nagoya University, Japan)

SUZUKI Tamio (Yamagata University, Japan)

Empress Hall

15:45-17:15

Concurrent Session

[CS-17] Ocular and mucosal melanomas (oral, genital and anal)

Chairs:

HARBOUR J. William (Washington University, USA)

SCHADENDORF Dirk (German Cancer Research Center, Germany)

Royton Hall B, C

CS17-1 Ocular melanoma: new insights into molecular pathogenesis

J. William Harbour

CS17-2 Mucosal melanoma - an overview of the status quo and perspectives

Dirk Schadendorf

CS17-3 UV radiation, racial difference and ocular melanomas with comparison to other melanomas

Dan-Ning Hu, Steven A. McCormick

CS17-4 Carbon ion radiotherapy for uveal melanoma

Hiroshi Tsuji, Hiroyuki Kato, Takeshi Yanagi, Itsuko Serizawa, Tadashi Kamada, Hirohiko Tsujii

[CS-18] Dermoscopy and new development of visual diagnostic tools for early melanoma lesions

Chairs:

SAIDA Toshiaki (Shinshu University, Japan)

MENZIES Scott W. (University of Sydney, Australia)

Royton Hall D

CS18-1 Dermoscopy and new development of visual diagnostic tools for early melanoma lesions

Scott W. Menzies

CS18-2 Importance of dermoscopy in daily clinical practice: our experience

Karel Pizinger, Tomas Fikrle

CS18-3 Early detection of acral melanoma with dermoscopy

Toshiaki Saida

CS18-4 Evaluation of dermoscopic criteria to diagnose early nail apparatus melanoma

Hiroshi Koga, Akane Minagawa, Hideyuki Ikegaki, Toshiaki Saida

CS18-5 The real-time three-dimensional analyses of benign and malignant skin tumors by confocal laser scanning microscopy

Ichiro Ono

17:30-18:15

Poster Discussion #3 (PP13-1 - PP18-1)

Regent Hall & Foyer

18:30-19:30

IPCC General Assembly

Regional Society Assembly (PASPCR, ESPCR, JSPCR and ASPCR)

Empress Hall

Crystal Room A, B, C, D

May 11, Sunday [day 5]

7:30-8:30

Early Bird Breakfast Seminar

[ES-07] Toray Industries, Inc.: Sun light and epigenetics of melanoma

Chair: **GILCHREST Barbara A.** (Boston University School of Medicine, USA)

Empress Hall

ES7-1 Harnessing telomere-based protective responses to prevent and treat melanoma

Barbara A. Gilchrest

ES7-2 Epigenetics of melanoma

Toshikazu Ushijima, Jun-ichi Furuta, Yoshimasa Nobeyama

[ES-08] Candela K. K.: Laser treatment of benign pigmented lesions

Highness Hall

Chairs:

OHARA Kuniaki (Toranomon Hospital, Japan)

JIMBOW Kowichi (Sapporo Medical University, Japan)

ES8-1 Efficacy and limitations of laser treatment for pigmented lesions

Kuniaki Ohara

8:45-10:45

Plenary Session

Royton Hall B, C

[PS-07] Microenvironment and angiogenesis of melanoma

[PS-08] Melanoma progression and metastases

Chairs:

BAR-ELI Menashe (University of Texas, USA)

BENNETT Dorothy C. (University of London, UK)

NAKAYAMA Juichiro (Fukuoka University, Japan)

PL-13 VEGFR-1 is involved in tumor-growth and metastasis including melanoma

Masabumi Shibuya

PL-14 Transcriptional regulation in melanoma progression: The role of the tumor microenvironment

Menashe Bar-Eli

PL-15 Autophagy and melanoma chemoresistance

Maria S. Soengas, Agnieszka Checinska, Keith Wolter, MaryBeth Riblet

PL-16 Cell-senescence mediators in melanoma suppression: is there a therapeutic potential?

Dorothy C Bennett, Julia K Soo, Alastair D. MacKenzie Ross, David M. Kallenberg, Heung Chong, Jade Chow, Barry Newell

11:00-12:30

Concurrent Session

Royton Hall D

[CS-19] Management for therapeutically/surgically difficult cases

Chairs:

YAMAMOTO Yuhei (Hokkaido University, Japan)

EGGERMONT Alexander M. (Erasmus University Medical Center, Netherlands)

CS19-1 The Rotterdam experience difficult surgical cases: isolated limb perfusions with TNF- α and melphalan in melanoma patients with multiple in transit metastases

Alexander M.M. Eggermont, D.J. Grünhagen, F. Brunstein, C. Verhoef MD, A.N. van Geel, J.H.W. de Wilt

CS19-2 Melanoma of thumb: Retrospective study for amputation levels, surgical margin and reconstruction

Hiroshi Furukawa, Arata Tsutsumida, Yuhei Yamamoto, Satoru Sasaki, Mitsuru Sekido, Tsuneki Sugihara

CS19-3 Surgical suture technique for the difficult areas of vitiligo

Ludmila Nieuweboer-Krobotova, J.P.W. van der Veen

CS19-4 Low-intensity ultrasound inhibits melanoma growth *in vitro* and *in vivo*

Loreto B. Feril Jr., Katsuro Tachibana, Kazuki Yamaguchi, Yurika Ikeda-Dantsuji, Takashi Kondo

CS19-5 Health related quality of life in the Nordic randomized trial of adjuvant intermediate-dose interferon alpha-2b in high-risk melanoma

Yvonne Brandberg, Steinar Aamdal, Lars Bastholt, Micaela Hernberg, Ulrika Stierner, Hans von der Maase, Johan Hansson

[CS-20] Clinical epidemiology in melanoma

Royton Hall B, C

Chairs:

LANDI Maria Teresa (National Cancer Institute, USA)

GALLAGHER Richard P. (BC Cancer Research Centre, Canada)

CS20-1 Role of heredity, the environment and somatic changes in melanoma etiology

Maria Teresa Landi

CS20-2 Do organochlorines cause melanoma?

Richard P. Gallagher, John J. Spinelli, Mark Elwood, Tim K. Lee

CS20-3 Factors related to being sunburnt in 7-year-old schoolchildren in Sweden

Ylva E Rodvall, Carl-Fredrik Wahlgren, Kerstin Wiklund

CS20-4 Neonatal phototherapy and melanocyte nevus count

Alain A. Beauchet, Emmanuel E. Mahe, Philippe P. Saiag, Philippe P. Aegerter

CS20-5 Design of a randomized trial for primary prevention of melanoma in French schools

Philippe Aegerter, Emmanuel Mahe, Alain Beauchet, Philippe Saiag

12:45-13:45

Luncheon Seminar

[LS-07] L'Oréal Recherche: Biology and biochemistry of pigmentation

Royton Hall B, C

Chair: **JIMBOW Kowichi** (Sapporo Medical University, Japan)

LS7-1 Human hair pigmentary system: recent findings bring out new questions

Stephane Commo, Bruno A. Bernard

LS7-2 Re-visit of epidermal melanin unit in developing strategies for skin lightening and depigmentation

Kowichi Jimbow

LS7-3 Update of melasma

Jean-Paul Ortonne (Hôpital de l'Archet, France)

[LS-08] Clinique Laboratories: The evolution of sun protection: from SPF to IPF

Royton Hall D

Chair: **ICHIHASHI Masamitsu** (Kobe Skin Research Institute, Doshisha University, Japan)

LS8-1 The evolution of sun protection: from SPF to IPF, building an integrated true sun protection factor

Mary S. Matsui, Kevin Cooper, Elma Baron, Hong-Duo Chen, Yuanhong Li

14:00-15:30

Concurrent Session

[CS-21] Genomics and proteomics of melanoma

Royton Hall B, C

Chairs:

SPATZ Alan (Gustave Roussy Institute, France)

HAYWARD Nicholas K. (Queensland Institute of Medical Research, Australia)

CS21-1 High throughput expression studies in primary cutaneous melanoma

Alan Spatz

CS21-2 Integrating microRNA expression with DNA copy number variation in melanoma

Nicholas K. Hayward, Mitchell S. Stark, Vanessa F. Bonazzi, Andre Minoche, Derek J. Nancarrow

CS21-3 Gene expression profiling of whole blood for the discovery of melanoma biomarkers

Mayumi Fujita, Junichi Fujita, Steven Robinson, Lisa Siconolfi, Kathleen Storm, Danute Bankaitis-Davis, Karl Wassmann, Carl K. Edwards, David A. Norris, William A. Robinson

CS21-4 Global receptor tyrosine kinase activity in melanoma cell lines

David J. Easty, Dearbhaile O'Donnell

CS21-5 Genome wide analysis of cellular response to ultraviolet light

Chong Jin Loy, Boon Hoe Neo, Ina M Krisnawati, Kuan Onn Tan, Raman Govindarajan, Claude Saliou

[CS-22] Epigenetics of melanoma

Royton Hall D

Chairs:

BERWICK Marianne (University of New Mexico, USA)

GODING Colin R. (Ludwig Institute for Cancer Research, UK)

CS22-1 Transcription regulation in melanocytes and melanoma

Colin R. Goding

CS22-2 The epigenetics of melanoma and the role of epidemiology

Marianne Berwick

CS22-4 Identification of candidate tumour suppressor genes inactivated by promoter methylation in melanoma cell lines

Vanessa F. Bonazzi, Nicholas K. Hayward

CS22-5 Screening of candidate differentially methylated regions (DMRs) to identify new candidate tumor related genes in malignant melanoma

Yui Shinojima, Hiroyuki Hara, Makoto Kimura, Jun Igarashi, Tadashi Terui, Hiroki Nagase

14:00-15:30

Open class to the public “Malignant melanoma: a life-threatening but curable skin cancer”

Empress Hall

Organizers:

YAMAMOTO Akifumi (Saitama University, Japan)

SAIDA Toshiaki (Shinshu University, Japan)

15:45-17:15

Concurrent session

[CS-23] Sentinel lymph nodes

Royton Hall B, C

Chairs:

GERSHENWALD Jeffrey E. (University of Texas, USA)

STRETCH Jonathan (Sydney Melanoma Unit, Australia)

CS23-1 Current status of sentinel node biopsy in melanoma - 2008

Jeffrey E. Gershenwald

CS23-2 Sentinel node evaluation for melanoma: A review of developments to date and prospects for the future

Jonathan Stretch

CS23-3 Lymphatic mapping and sentinel node analysis in patients with cutaneous melanoma in a Japanese population

Kenjiro Namikawa, J. Uehara, Y. Nakai, N. Yamazaki

CS23-4 Sentinel node biopsy versus elective lymph node dissection for Japanese melanoma patients.~A single institutional experience

Arata Tsutsumida, Hiroshi Furukawa, Yuhei Yamamoto

CS23-5 The analysis of micro-anatomic patterns of melanoma micrometastases within the sentinel node (SN). A multicenter study of 388 patients

A.C.J. van Akkooi, Z.I. Nowecki, C. Voit, G. Schaefer, W. Michej, W. Ruka, **Alexander M.M. Eggermont**

[CS-24] New melanoma risk markers and prognosis

Royton Hall D

Chairs:

VAN DEN OORD Joost (University Hospitals, KUL, Belgium)

WEINLICH Georg (Medical University of Innsbruck, Austria)

CS24-1 Melanoma gene expression profiling: prognostic markers and insight in tumor progression

Joost van den Oord, Philippe Dessen, Vladimir Lazar, Stefan Michiels, Alain Sarasin, Alain Spatz, Marguerite Stas, Veronique Winnepenninckx

CS24-2 Histological and serological new risk markers in melanoma

Georg Weinlich

CS24-3 Matricellular proteins produced by melanocytes and melanomas: Potential role of Tenascin-C as a key component in the melanoma stem cell niche

Mizuho Fukunaga-Kalabis, Gabriela Martinez, Thiennga K. Nguyen, Angela Cipolla, Sarah M. Telson, Meenhard Herlyn

CS24-4 Lack of cytoplasmic ERK activation is an independent adverse prognostic factor in primary cutaneous melanoma

Johan Hansson, Braslav Jovanovic, Doris Krockel, Diana Linden, Bo Nilsson, Suzanne Egyhazi

CS24-5 Differential cell adhesion within an isogenic model of melanoma progression under shear flow conditions using a microfluidic cell-based assay

Gabriela Gremel, Mairin Rafferty, Kate Fitzgerald, William M. Gallagher

17:30-18:15

Poster Discussions #4 (PP19-1 – PP24-2)

Regent Hall & Foyer

19:00-21:00

IPCC/IMRC Banquet

Award Ceremony (1)

Royton Hall A, B, C

H.S. Raper and Myron Gordon medal presentation from IFPCS
 Thomas B. Fitzpatrick medal presentation from IFPCS
 "Fitzpatrick's melanocyte: 50 years further on"; **GILCHREST Barbara A.** (Boston University
 School of Medicine, USA)
 Presentation from Pigment Cell and Melanoma research

Award Ceremony (2)

Best Oral presentation from concurrent sessions
 Best Poster presentation
 Travel Award

May 12, Monday [day 6]

7:30-8:30

Early Bird Breakfast Seminars

[ES-09] Kao Co. & Kanebo Cosmetics Inc.: Cellular response and protection against UV

Chair: **ABDEL-MALEK Zalfa** (University of Cincinnati, USA)

Empress Hall

ES9-1 High-throughput screening for gene function related to UV response using siRNA-transfected cell arrays

Yoshinori Sugiyama

ES9-2 UV protection technology – Broad spectrum with physical UV filters -

Tomohiko Sano

[ES-10] Eisai Co., Ltd.: Antioxidants

Highness Hall

Chair: **MEYSKENS Frank L.** (University of California at Irvine, USA)

ES10-1 Antioxidants and redox-active metals in the epigenetic pathogenesis of cutaneous melanoma: epidemiologic and experimental evidence

Frank L. Meyskens, Sun Yang, Hoda Anton-Culver, Patrick Farmer

ES10-2 Melatonin in the skin: protection against oxidative stress

Andrzej Slominski, Ralf Paus, Tobias Fischer, Russel Reiter

8:45-11:00

Plenary Session

[PS-9] HOT TOPICS/AWARD LECTURESHIP

Royton Hall B, C

Chairs:

PAVEL Stan (Leiden University Medical Centre, Netherlands)

FISHER David (Dana-Farber Cancer Institute, USA)

HERLYN Meenhard (Wistar Institute, USA)

BAR-ELI Menashe (University of Texas, USA)

PL-17 **IPCC Seiji Memorial Lecture: Genetics of dark skin: new genes, new pathways**

Greg Barsh, Kelly McGowan, Cathy van Raamsdonk, Laura Attardi, Boris Bastian

PL-18 **IPCC Lerner Lectureship: Neuroendocrine activity of the melanocyte**

Andrzej Slominski

PL-19 **IPCC and IMRC Hot Topics: T-box factors in melanocytes and melanoma**

Colin R. Goding

PL-20 **IMRC Hot Topics (1): Clinical results and immunologic correlates in metastatic melanoma patients treated with ipilimumab**

Jedd D. Wolchok, Jianda Yuan, Sacha Gnjatic, Gerd Ritter, Erica Ritter, Humilidat Gallardo, Sarah Powell, Lloyd J. Old, James P. Allison

PL-21 **IMRC Hot Topics (2): A new mouse model of BRAF(V600E)-induced metastatic melanoma**

Martin McMahon, David Dankort, Elena Filenova, David Curley, Marcus Bosenberg

11:15-13:15

Concurrent Session

[CS-25] IMRC Symposium; Current Achievement in Melanoma Clinical Trials Sponsored by Chugai

Pharmaceutical Co., Ltd. & AstraZeneca UK Ltd.

Royton Hall B, C

Chairs:

EGGERMONT Alexander M. (Erasmus University Medical Center, Netherlands)

SOSMAN Jeffrey (Vanderbilt University Medical Centre, USA)

CS25-1 Current achievements in melanoma trials
Jeffrey Sosman, Igor Puzanov, Amiri Katayoun

CS25-2 Targeting KIT mutated melanoma
F. Stephen Hodi

CS25-3 Current achievements in melanoma clinical trials
Michael Smylie

CS25-4
Alexander M. Eggermont

11:15-14:15

Concurrent Session

[CS-26] Workshop; Vitiligo Sponsored by Avon Products Co., Ltd. and Galderma International S.A.S.

Chairs and Organizers:

ALOMAR Agustin (Hospital de la Santa Creu I de Sant Pau, Spain)

TAÏEB Alain (Hôpital St André, France)

PICARDO Mauro (San Gallicano Dermatological Institute, Italy)

Royton Hall D

13:30-14:15

IMRC General Assembly

Royton Hall B, C

14:30-16:30

Plenary Session

[PS-10] Signaling and molecular targets for melanoma therapy

[PS-11] Immunobiology and immunotherapy of melanoma

Chairs:

GAJEWSKI Thomas (University of Chicago, USA)

RONAI Ze'ev (Burnham Institute for Medical Research, USA)

Royton Hall B, C

PL-22 Wnt/ β -catenin signaling in melanocyte and melanoma development

Lionel Larue

PL-23 Re-wired Signal Transduction pathways in Melanoma - a c-Jun/ATF2 perspective

Ze'ev Ronai

PL-24 Immunotherapy for melanoma: overcoming mechanisms of resistance in the tumor microenvironment

Thomas Gajewski

PL-25 Molecular mechanisms for immuno-suppression induced by melanoma cells

Yutaka Kawakami, Hidetoshi Sumimoto, Chie Kudo, Nobuo Tsukamoto, Tomonori Yaguchi

16:45-17:45

IPCC/IMRC Farewell Drink

Empress Hall

POSTER PRESENTATIONS

PP1-1 Size dependent deactivation of the excited state of DHICA

Magdalena Gauden, Alessandro Pezzella, Lucia Panzella, Teresa Neves Petersen, Esben Skovsen, Marco d'Ischia, Villy Sundstrom

PP1-2 Serum melanin-related metabolites levels in psoriasis patients undergoing narrowband ultraviolet B phototherapy

Kanako Kikuchi, Kazumasa Wakamatsu, Shosuke Ito, Kunihiko Tamaki

PP1-3 Relationships between MC1R gene variants and skin colour assessed by reflectance instruments in a French adult women population

Julie Latreille, Anissa Elfakir, Khaled Ezzedine, Laurence Ambroisine, Sophie Gardinier, Pilar Galan, Serge Herberg, Florian Gruber, Jonathan Rees, Erwin Tschachler, **Christiane Guinot**

PP1-4 Does the sexual difference in the feather color of Jungle Crows (*Corvus macrorhynchos*) exist?

Eunok Lee, Kazumasa Wakamatsu, Hideyuki Tanaka, Shoei Sugita

PP1-5 Tyramide-based tyrosinase assay (TTA), a sophisticated method to detect a tyrosinase activity in various pigmentary skin disorders

Chae Young Lee

- PP1-6 Comparison of melanogenesis in cultured epidermal melanocytes from wild-type and mutant mice at the slaty locus
Yoko Niki, Kazumasa Wakamatsu, Tomohisa Hirobe, Hideya Ando, Masamitsu Ichihashi, Shosuke Ito
- PP1-7 Reactivity of 5,6-dihydroxyindole, its homodimers, and their two-electron-oxidants from ab initio
Hidekazu Okuda, Kazumasa Wakamatsu, Shosuke Ito, Takayuki Sota
- PP1-8 Interference of melanin in protein determination
Jan Borovansky, Adela Lipsova, Martina Kozakova
- PP1-9 Modulation of pigmentation by siRNA-mediated gene silencing technology
Uma Santhanam, Ralph R Binetti, Hussam H Shaheen
- PP2-1 Androgen influences the distribution of chromatophores and induces male-type nuptial coloration in female rosy bitterling
Chihiro Tajima, Makito Kobayashi, **Masazumi Sugimoto**
- PP2-2 Visual pigments and Gi-mediated signal transduction of light in light-sensitive motile iridophores of the neon tetra
Akiko Kasai, Noriko Oshima
- PP3-1 Decreased expression of IL18 in the pathway to ultraviolet radiation-induced melanoma
Elke Hacker, H. Konrad Muller, David Whiteman, Sandra Pavey, Nicholas Hayward, Graeme Walker
- PP3-2 Transcription analysis in the MeLiM swine model identifies RACK1 as a potential marker for human melanoma tumoral status
Giorgia Egidy, Sophia Jule, Philippe Bosse, Florence Bernex, Claudine Geffrotin, Silvia Vincent-Naulleau, Vratislav Horak, Xavier Sastre-Garrau, Jean-Jacques Panthier
- PP3-3 Light and electron microscopy analysis support planaria as a model system for pigment cell biology
William A. Monroe, James Fichtelman, Giselle Thibaudeau
- PP4-1 Contact co-culture of human epidermal melanocytes and follicular keratinocytes
Wenyuan Zhu, Ruzhi Zhang
- PP4-2 Role of p38 mitogen-activated protein kinase in the α -melanocyte stimulating hormone (α -MSH)-induced melanogenesis in B16 cells
Barbara Bellei, Giorgia Cardinali, Nicaela Aspate, Enzo Izzo, Mauro Picardo
- PP4-3 SLC24A5 Encodes a *trans*-Golgi network protein with potassium-dependent sodium/calcium exchange activity that regulates human epidermal melanogenesis
Stephen Wilson, Rebecca S Ginger, Tony Dadd, Amelia Fereday, Wendy Filsell, Carl Jarman, Sarah Askew, Dudley Ferdinando, Richard M Ogborne, Adrian M Smith, Robert Szerencsei, Paul P M Schnetkamp, Frans van der Ouderaa, Martin R Green
- PP4-4 Inhibition of melanosome transport through Slp2-a degradation induced by Coumalic Acid
Ken Itakura, Akemi Ryu, Yuki Mizutani, Eiji Naru, Mitsunori Fukuda, Chiharu Koide
- PP4-5 Specialization of endosomal trafficking in melanocytes
Cedric Delevoye, Ilse Hurbain, Daniele Tenza, Jean-Baptiste Sibarita, Stephanie Uzan, Jean Salamero, Willie J. Geerts, Michael S. Marks, Graca Raposo
- PP4-6 The classical premelanosome, known from melanocyte pigmentation, is not essential for RPE melanogenesis
Antje K. Biesemeier, Ulrich Schraermeyer
- PP4-7 Downregulation of melanin synthesis by 3-(3,4-dihydroxyphenyl)-N-adamantyl-propanamide (ISAO-03) and its lighting effects in guinea pigs model
Sunmi Kim, Hyoungjune Kim, Soomi Ahn, Heungsu Baek, Heekhyung Chang, Seongjoon Moon
- PP4-8 Characterization of the localization and function of MATP in melanocytes
Takeshi Namiki, Julio C. Valencia, Vincent J. Hearing
- PP4-9 A method introducing a soluble recombinant protein specifically localized in the plasma membrane of melanocyte using the protein transduction
Kentaro Ohko, Michitoshi Watanabe, Michihiro Igarashi, Masaaki Ito
- PP4-10 The internal repeat domain of the melanosomal matrix protein PMEL17/GP100 is required for fibrillogenesis

- but not for intracellular trafficking
Toshihiko Hoashi, Jacqueline Muller, Kunihiko Tamaki, Kuniaki Ohara, Vincent J. Hearing
- PP5-1 The roles of hydroquinone and its glycoside derivatives in depigmentation and antioxidation: their cytotoxicity as skin whitening agent
Tie-Chi Lei, Wei Che, Xiao-Ming Liu, Shi-Zheng Xu
- PP5-2 Involvement of deficient dopachrome tautomerase in the loss of skin photoprotection against ultraviolet A irradiation
Tie-Chi Lei, Xing Dai, Xiao-Ming Liu, Shan Jiang, Shi-Zheng Xu
- PP5-3 Gene expression and protein profiling of normal and atypical melanocytes
Arno Frans Van Nieuwpoort, Coby Out, Arij Weerheim, Stan Pavel, Wilma Bergman, Nelleke Gruis
- PP5-4 The role of Gadd45a in the survival of human melanocytes and melanoma cells
Thibault Voeltzel, Julie Pourchet, Julien Mafille, Caroline Fayolle, Alain Puisieux, Claude Caron de Fromentel, Jean-François Doré
- PP5-5 Melanocyte turnover and apoptosis under stress and the stress-mediator Substance P-course and curse in premature graying?
Katharina R. Spatz, Rupert Overall, Burghard F Klapp, Petra C Arck, Eva MJ Peters
- PP5-6 Induction of melanogenesis by mechanical stretch *in vitro*
Kazuyo Izumi, Koichi Nakaoji, Kazuhiko Hamada, Hiroshi Yanase, Miwa Miura, Naoki Matsuda
- PP5-7 Expression of TRPV1 in human melanocytes
Sang-Young Park, Seong-Min Kim, Seung-Hun Lee, Tae-Jin Yoon
- PP6-1 Location, isolation and culture of melanocytes in human fetal hair follicles
Ruzhi Zhang, Wenyan Zhu
- PP6-2 Melanocytes in eye, harderian gland and ear: Different requirement of Kit and Endothelin 3 signalings for the development of non-cutaneous melanocytes
Hitomi Aoki, Takahiro Kunisada
- PP6-3 The role of Mitf and Tyrp1 as survival factors on melanocytes: involving an isoform of Tyrp1
Yoko Kawa, Tamihiro Kawakami, Masayuki Nakamura, Kayoko Ohsumi, Lynn M Lamoreux, Chung H Chang, Masako Mizoguchi, Yoshinao Soma
- PP6-4 BMP signaling downregulates Ret expression in mouse melanoblasts but not melanoma cells
Tamihiro Kawakami, Yoko Kawa, Masashi Kato, Masako Mizoguchi, Yoshinao Soma
- PP6-5 Analysis of multiple function of Mitf in chick RPE development
Nagaharu Tsukiji, Kazuhisa Takeda, Shigeki Shibahara, Hiroaki Yamamoto
- PP6-6 Parallel increase of pteridine biosynthesis and pigmentation of melanin and ommochromes in the *quail* mutant of the silkworm, *Bombyx mori*
Tomomi Kato, Hiroshi Sawada, Motoko Nakagoshi
- PP6-7 Developmental pattern of pigment cells producing geographical color variation in the Okada's five-lined skink, *Plestiodon latiscutatus*
Takeo Kuriyama, Kazuyuki Miyaji, Masazumi Sugimoto, Masami Hasegawa
- PP6-8 Effect of prostaglandin F2 α analogue, latanoprost, on cultured murine neural crest-derived melanocyte precursors
Chung-Hsing Chang, Rong-Kung Tsai, Yoko Kawa, Tamihiro Kawakami, Yoshinao Soma, Masako Mizoguchi
- PP6-9 Involvement of adhesive substances in hypermelanization of Silky chicken
Toyoko Akiyama, Yasunari Kayashima, Keiji Kinoshita, Makoto Mizutani, Takao Namikawa
- PP6-10 Control of melanocyte diversification
Satomi Nishikawa-Torikai, Saori Yonetani, Rasmus Freter, Masatake Osawa, Shin-ichi Nishikawa
- PP6-11 RaLP adaptor protein modulates stem cell migration and differentiation
Margherita Y. Turco, Giuseppina Giardina, Ewa Aladowicz, Allegra Pianaroli, Barbara Ortensi, Giuliana Pelicci, Ernesta Fagiani, Antonio Simone, Luisa Lanfrancone
- PP7-1 A novel ENU-derived mouse model of Waardenburg syndrome and its genetic interaction
Wei Li, Xiao-Li Guo, Xiang Gao,

- PP7-2 Identification of a novel modifier of Sox10 in melanocyte development
Ling Hou, Dawn Watkins-Chow, Incao Arturo, Ceclia Rivas, William J. Pavan
- PP7-3 Committed melanocyte precursors reach the heart and persist in the atrioventricular valves in areas of Versican B and elastin expression.
Flavia C. Brito, Amy Saldana, Boudewijn P.T. Kruithof, Vinciane Gaussin, **Lidia Kos**
- PP7-4 Neuregulin/ErbB3 signaling affects early melanocyte development
Irina Fernandez, Erasmo M. Perera, **Lidia Kos**
- PP7-5 Is choroidal melanocyte involved in retinal function?
Yu Takeda, Yukiko Yano, Eriko Sugano, Hiroshi Tomita, Makoto Tamai, Hiroaki Yamamoto
- PP7-6 A characteristic role for anti-oxidant responses of the inner ear melanocytes essential for hearing acuity
Shigeyuki Uehara, Yoshiko Izumi, Yuko Kubo, Chi Chiu Wang, Katsuhiko Mineta, Kazuho Ikeo, Takashi Gojobori, Masayoshi Tachibana, Toshihiko Shiroishi, Hiroaki Yamamoto
- PP7-7 Functional characterisation of neurons produced by postnatal neural crest-like stem cells
Elena V. Sviderskaya, Yuri A. Negulyaev, Daniel Sanchez, Mark A. Lawrence, Yuri E. Korchev, Dorothy C. Bennett
- PP7-8 Midkine-b (mdkb) regulates induction of neural crest cells in zebrafish
Daniel Liedtke, Christoph Winkler
- PP8-1 Human piebaldism: a novel mutation of *KIT* gene and relationship between phenotype and site of the mutation
Naoki Oiso, Tamio Suzuki, Ryoji Tsuboi, Yoshihiko Mitsuhashi, Tadamichi Shimizu, Teruhiko Makino, Kazuyoshi Fukai, Naoko Hosomi, Roberto L. Rezende, Ana P. Manzoni, Fernanda Lauermaann, Shigeru Kawara, Akira Kawada
- PP8-2 Three novel mutations of TYR gene in Chinese OCA1 patients
Wei Li, Yu Wang, Xiao-Li Guo, **Shi Lian**
- PP9-1 VEGF mediates BMP7-induced angiogenesis in melanoma
Mei-Yu Hsu, Sherry Rovinsky, Chiou-Yan Lai
- PP9-2 Oncogenic BRAF negatively regulates the LKB1-AMPK signaling to promote melanoma cell proliferation
Bin Zheng, Hyeong-Nam Joesph Jeong, John Asara, Yuan-Ying Yuan, Scott Grante, Lynda Chin, Lewis Cantley
- PP9-3 Regulation of MC1R expression and function in normal human melanocytes by its physiological agonists and antagonists
Viki B. Swope, Ana L. Kadekaro, Sandy Schwemberger, Renny J. Starner, Matthew Nix, Mira Patel, George Babcock, Glenn Milhauser, Zalfa A. Abdel-Malek
- PP9-4 Agouti protein modifies melanocyte shape and melanogenesis through cAMP-independent signaling pathway
Tokimasa Hida, Kazumasa Wakamatsu, Elena V. Sviderskaya, Glenn L. Millhauser, Bin Yu, Gregory S. Barsh, Shosuke Ito, Kowichi Jimbow, Dorothy C. Bennett
- PP9-5 MicroRNA in regulation of cKit expression and progression of melanoma and vitiligo
Alexeev Vitali, Olga Igoucheva
- PP9-6 Stimulation of melanogenesis in murine B16 melanoma cells and human melanocytes by extracellular beta-nicotinamide adenine dinucleotide
Li Cheng Soo, **Chan-Fong Chang**
- PP9-7 [4-t-butylphenyl]-N-(4-imidazol-1-yl phenyl)sulfonamide(ISCK03) inhibits SCF/c-kit signaling in 501mel cells and abolishes melanin production *in vivo*
Soo Mi ahn, Yong Joo Na, Heung Su Baek, Hyun Jung Shin, Sung Joon Moon
- PP9-8 Activation of ERK1 and ERK2 mitogen-activated protein kinases by the red hair colour-associated human melanocortin 1 receptor (MC1R) variants
Cecilia Herraiz Serrano, Maria C Turpin Sevilla, Jose C Garcia-Borron, **Celia Jimenez-Cervantes**
- PP9-9 Prostaglandin D2 represses the growth of human melanoma cells through a mechanism independent of prostaglandin D2 receptors
Kazuhisa Takeda, Naho Takahashi, Shigeki Shibahara
- PP9-10 Melanotransferrin: biochemical and immunological crosslink between melanoma and Alzheimer's disease
Mariana I. Rachkova, Borislav D. Dimitrov

- PP9-11 Molecular characterization of melanoma-endothelial cell communications and their functional role in tumor progression
Megan J. Keefe, Rhoda M. Alani
- PP9-12 Matrix metalloproteases are dispensable for growth factor-induced migration, but regulate cell cycle progression of melanocytes
Svenja Meierjohann, Elisabeth Wende, Anita Hufnagel, Katarina Wolf, Peter Friedl, Manfred Scharl
- PP9-13 p21waf1/Cip1 and Wnt5a cooperate to increase invasive phenotype in melanoma
Tura C. Camilli, Michael P. O'Connell, Amanda A. French, Dennis D. Taub, Fred E. Indig, Brittany Franck, Ashani T. Weeraratna
- PP9-14 Is RaLP, a new member of the Shc family, a critical determinant in the melanoma metastatic process?
Ewa Aladowicz, Giuseppina Giardina, Cristina Spinelli, Giovanni Mazzarol, Massimo Mosconi, Federica Baldini, Giulio Tosti, Alessandro Testori, Ernesta Fagiani, Luisa Lanfrancone
- PP9-15 Regulation of melanocyte fate by an agonist inverse of MC1R, agouti protein
Elodie Le Pape, Kazumasa Wakamatsu, Alessio Giubellino, Julio C. Valencia, Thierry Passeron, Shosuke Ito, Rainer Wolber, Vincent J. Hearing
- PP10-1 Nitric oxide/soluble guanylyl cyclase signaling in melanocytes: new aspects for modulation of pigmentation
Krassimira Ivanova, Pranab K. Das, Rupert Gerzer
- PP10-2 Correlation between presence of melanocyte stem cells and response to treatment in vitiligo patients
Vanessa Lapiner, Lester Davids, Gail Todd, Sue Kidson
- PP10-3 Characterization of interactions between antioxidants and 4-tertiary butylphenol (4TBP) in the etiology of occupational vitiligo
Rangaprasad Sarangarajan, Carolyn Friel, Stephen Kerr
- PP10-4 Simplified non-cultured cellular grafting for treatment of vitiligo and chronic leg ulcer - the "6-well plate" technique
Boon-Kee Goh, Prasad Kumarasinghe
- PP10-5 FK506 induces differentiation of melanoblasts: new insights on how topical tacrolimus induces follicular pigmentation in vitiligo skin
Cheng-Che E. Lan, Ching-Shuang Wu, Gwo-Shing Chen, Hsin-Su Yu
- PP10-6 Dynamics of melanocyte migration as a clue to treat depigmentary skin conditions
Dheshnie Govender, **Lester M Davids**, Dorothy C Bennet, Zalfa Abdel-Malek, Susan H Kidson
- PP10-7 Congenital guttate leukoderma, a new clinical entity?
Kazuyoshi Fukai, Atsuko Kadoya, Hiroyuki Teramae, Masamitsu Ishii
- PP10-8 A case of partial blond scalp hair: Chemical analysis of eumelanin and pheomelanin content
Katsuhiko Tsukamoto, Atsushi Osada, Toshio Oyama, Kazumasa Wakamatsu
- PP11-1 Polyclonality of BRAF mutations in acquired melanocytic nevus and primary melanoma
Jingrong Lin, Minoru Takata, Hiroshi Murata, Kenji Kido, Toshiaki Saida
- PP11-2 Melasma in men: A clinical, etiological and histopathological study
Rashmi Sarkar, Poonam Puri, Rakesh K Jain
- PP11-3 Dyschromatosis symmetrica hereditaria associated with neurological disorders
Taisuke Kondo, Tamio Suzuki, Michihiro Kono, Tamiko Negoro, Yasutomo Ito, Yasushi Tomita
- PP11-4 Factors influencing the severity of melasma: a prospective study in 197 Tunisian patients
Christiane Guinot, Selma Cheffai, Olivier Nageotte, Med Abderraouf Dhaoui, Soumeiya Youssef, Kahena Jaber, Julie Latreille, Nejib Doss
- PP11-5 Acquired unilateral melanocytic nevi in otherwise normal skin
Tatsuya Horikawa, Xijun Yu, Hiroshi Nagai, Chikako Nishigori
- PP11-6 Potentials of Artocarpin in the Treatment of Cafe-au-lait macules in Neurofibromatosis type 1 (NF1) disease
Kazuki Yamaguchi, Loreto B. Feril Jr., Miki Matsuo, Minao Furumura, Juichiro Nakayama
- PP11-7 A novel skin depigmenting agent; (2Z,8Z)-decadiene-4,6-dienoic acid methyl ester isolated from *Erigeron breviscapus*
Hyang-Bok Lee, Lyun-Hwa La, Dung Hoang Nguyen, and Eun-Ki Kim

- PP11-8 The Role of fibroblast-derived paracrine factors on the epidermal hyperpigmentation of Becker's nevus
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- PP12-7 Characterization of AES in UV-induced melanogenesis
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- PP12-8 Aberrant trafficking of human melanocortin 1 receptor variants associated with red hair and skin cancer
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- PP17-4 Effects of epidermal growth factor on the growth of human uveal melanoma cells and uveal melanocytes *in vitro*
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- IFN-gamma genes
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- PP19-4 Flotillin-2, a lipid raft protein is a novel target for melanoma therapy
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- PP20-2 Melanins, MC1R, melanoma and basal cell carcinoma: a new epidemiological case-case study
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- PP20-3 5-S-cysteindopa (5-S-CD) value in malignant melanoma cases at Kumamoto University
Yuji Inoue, Toshiro Kageshita, Kazumasa Wakamatsu, Shosuke Ito, Hironobu Ihn
- PP20-4 Human pigmentation genes and genetic susceptibility to melanoma
Lara P. Fernandez, Roger L. Milne, Guillermo Pita, Uxua Floristan, Elena Sendagorta, Marta Feito, Jose A. Aviles, Manuel Martin-Gonzalez, Pablo Lazaro, Javier Benitez, Gloria Ribas
- PP20-5 Health related quality of life in patients with malignant melanoma included in a randomized study of resection margins
Mia Bergenmar, Eva Mansson-Brahme, Johan Hansson, Yvonne Brandberg
- PP21-1 Hn1 is a novel actin complex-binding protein that regulates B16.F10 melanoma cell growth and secretion of melanin
Katharine Laughlin, Defang Luo, Che Liu, Gerry P.J. Shaw, Kenneth H. Warrington, Jeffrey K. Harrison
- PP21-2 Expression of metabotropic glutamate receptor 1 and phosphorylated extracellular signal-regulated kinase 1/2 in human melanocytic lesions
Yoko Funasaka, Takeshi Harada, Abdel-Daim Mohamed, Atsu Aiba, Chikako Nishigori
- PP21-3 MicroRNA expression profiling of melanoma cell lines highlights mir-211 as a potential tumour suppressor
Mitchell S. Stark, Vanessa F. Bonazzi, Glen M. Boyle, Nicholas K. Hayward
- PP22-1 Are dysplastic naevus cells candidates for a mutated phenotype in melanoma?
Stan Pavel, Nico Smit, Frans van Nieuwpoort, Laurent Marrot, Nelleke Gruis
- PP22-2 Increased caspase-2 activity is associated with induction of apoptosis in IFN- α sensitive melanoma cell lines.
Takafumi Kamiya, Tamaki Okabayashi, Shin-ichi Yokota, Jiro Ogino, Toshiharu Yamashita, Nobuhiro Fujii, Kowichi Jimbow
- PP23-1 Improvement in detection of micrometastasis in melanoma patients sentinel lymph nodes using anti-HMW-MAA antibodies
Yasufumi Goto, Soldano Ferrone, Takaaki Arigami, Atsushi Tanemura, Donald L. Morton, Dave S.B. Hoon
- PP24-1 Common melanocytic nevi in 7-year old schoolchildren residing at different latitudes in Sweden
Ylva E. Rodvall, Henrik Ullén, Carl-Fredrik Wahlgren, Kerstin E. Wiklund
- PP24-2 APE/Ref-1 deficiency inhibits cellular transformation and metastatic potential of human melanoma cells
Sun Yang, Bobbye Misner, Rita Chiu, Frank L. Meyskens, Jr.

Please visit web site <http://www.e-convention.org/ipcc-imrc2008>
for the most up-to-date program.

Announcement of the LVMH Recherche Shanghai International Science Symposium 2008

The LVMH Recherche Shanghai International Science Symposium 2008 will be held on May 12, 2008 in Shanghai, China. The symposium will bring together reports of the latest discoveries related to the effects of aging and environmental factors on human skin characteristics, with a focus on Asian and Indian skin. The presentations will describe new data covering the fields of neurobiology, pigmentation, hydration, aging, stresses and will present new molecular markers for Chinese and Indian skin in relation to clinical and biophysical changes due to aging and life style. This symposium will include communications from international scientific experts from Europe, India, and China. The emphasis will be on the academic dialogue between industry and scientists working in the fields of dermatology and related areas.

Frédéric Bonté, Ph.D.

Contact: skin-asiasymposium@lvmh-pc.com

Website: <http://www.lvmh-skinasiasymposium.com>



Introduction to the series pages...

by *Gertrude-Emilia Costin*

In our effort to improve the PASPCR Newsletters and facilitate communication among the members of the Pigment Cell Community, the editorial team is introducing a few new sections in the letters this year. Some of them may be published just in one issue, while others may span several and are structured as ongoing sections. We welcome all contributions from you and hope you will participate with ideas and suggestions.

For the first issue, we have included a section entitled “**Origins and development of the PASPCR Newsletter**”. Since the editorial team of the PASPCR Newsletter has recently changed, we invited the previous editors, *Dr. Vincent Hearing* and *Dr. William Oetting* to share their thoughts on this assignment with us and to recount how the Newsletters came to be and evolved over the years.

Also included is a new series, “**20 years on...**” to celebrate the anniversary of the establishment of our society. We asked members of the first PASPCR council, starting with *Dr. James Nordlund*, to share with us their recollections of inception of the PASPCR and their involvement since the society was created 20 years ago. The first team to lead the PASPCR was:

President: James Nordlund

Secretary: Richard King

Council members: Alistar Cochran, Vincent Hearing, Walter Quevedo (1988-1990)

Sally Frost-Mason, Thomas Schultz, Roger Bowers (1988-1991)

Raymond Boissy, Nels Granholm, Herbert Haberman (1988-1992)

Our section “**Let me introduce...**” will host short introductions from new members of the PASPCR, leaders of research groups directly or indirectly related to pigmentation and anyone who would like to highlight their new research endeavors. *Dr. Nina Jablonski* has graciously accepted our invitation to contribute to the first issue.

We hope you will enjoy these new sections and we would appreciate your feedback. We are always open to new ideas and suggestions so please don't hesitate to share those with us and with the whole community through the PASPCR Newsletter.

ORIGINS AND DEVELOPMENT OF THE PASPCR NEWSLETTER

By Vincent Hearing and William Oetting

Following the establishment of the PASPCR in 1988, the first PASPCR Newsletter (Volume 1, Number 1) was produced by Dick King, DeWayne Townsend and Nels Granholm in May of 1990. Those were exciting times due to the recent establishment of the journal Pigment Cell Research along with the 3 regional pigment cell societies for Japan, Europe and the Americas. But it was also the time before the Internet was widely used and before email and online access to journals, etc. was freely available. That first issue was a 6 page Newsletter that contained information about the upcoming PASPCR meeting in Edmonton Alberta, a message from our first PASPCR President, James J. Nordlund, and an update from the first Editor-in-Chief of Pigment Cell Research, Joseph T. Bagnara. It also provided information about other upcoming meetings of interest and other items of interest to those of us in the field. Unfortunately, there was no second edition within the next year or so. A second Volume 1 Number 1 was created by Vince Hearing in 1993, and he continued to be the editor of the Newsletter until 1998; 4 issues per year have been regularly published since 1993.

The PASPCR Newsletter was initially created using WordPerfect, and later using Microsoft Word, which placed some limitations on the format, but provided a good way to keep the PASPCR community informed about the society and related scientific issues. A big part of the Newsletter was the inclusion of a comprehensive list of pigment-related citations published in the previous 3 months. Remember that this was in the days before literature searches became common and before PubMed was freely available to all. The Newsletter also included Meeting Reports of our own meetings and those of our sister societies, as well as related meetings in other fields that were attended by our members. Such articles were important to keep aware of what scientists in other geographical regions were currently doing and reporting prior to publication. Nowadays, the abstracts and programs of those meetings are

published in Pigment Cell & Melanoma Research or in related journals available online so staying current is no longer the challenge it used to be if you can't attend a specific meeting. The Newsletters also typically published the contact information for all society members in its first issue each year, yet another thing that can be accessed easily online nowadays for all Pigment Cell Societies on their web sites (all linked to the PASPCR web page).

In 1999, due to a moment of weakness, Bill Oetting agreed to take over as editor. The PASPCR Newsletter also underwent a "face-lift" in December of 2001. There had been some comments as to the readability of the Newsletter which had such large columns. Undergraduates in the University of Minnesota School of Journalism were recruited to come up with a new format. With a small donation to the Journalism club, we were able to get a new look to the Newsletter, and at the same time we switched from Microsoft Word to Adobe PageMaker. The new format made the newsletter much easier to read, and allowed for pictures and other graphics to be included.

Special articles were also added, including an obvious rip-off of Paul Harvey called "The Rest of the Story", which included stories from Willys Silvers on the writing of the "The Coat Colors of Mice" and Seymour Pomerantz on the production of the tyrosinase antibody, "Research in the PASPCR" about the research being done in the laboratories of PASPCR members, "Members in the News" and obituaries of PASPCR members who had passed on. The PASPCR Newsletter is still a good venue for publishing articles on the history of the PASPCR as well as new avenues of research for the pigment cell community.

Readers may want to note that all back issues of the Newsletter are available at the PASPCR Web site. They make for interesting reading to see the early origins of our Society, changes in our Membership, Council, Officers and the research projects in the field as they developed. We should not forget to acknowledge the important role of Joan Griggs at the University of Cincinnati, who was responsible for overseeing the printing and mailing the Newsletter to the membership throughout this entire time. As former editors of the PASPCR

Newsletter, both of us look forward to seeing its continued development under the new editorial team of Gertrude-Emilia Costin and Prashiela Manga.

Sincerely, Vince Hearing and Bill Oetting.

20 years on... - Part 1
**PANAMERICAN SOCIETY FOR
PIGMENT CELL RESEARCH. A
VERY BRIEF HISTORY**

By James Nordlund

The origins of the PASPCR began long before most of its current members were born. Few people realized that all of the various pigment cell societies had their beginnings at a meeting held in New York City in November, 1946. Dr. George Smith recognized the urgent need for a meeting about melanomas, acknowledged as a highly dangerous malignancy. The meeting was sponsored by the New York Academy of Sciences. Dr. Myron Gordon, for whom the PASPCR research award was named, was a member of the organizing committee. Notables such as Dr. Pierre Masson (Masson Fontana stain for melanin) were in attendance. The proceedings of the meeting were published by the Academy in 1948 "The Biology of Melanomas". This meeting became the first international pigment cell conference (IPCC).

Between 1946 and 1966, there were seven IPCC's, four in New York City, one in Texas, one in Sofia, Bulgaria (1965) and the seventh in Seattle, Washington. Dr. Gordon with Dr. Vernon Riley edited the proceedings from these meetings published in various journals and in monographs. Dr. Riley proposed the formation of an international pigment cell organization and a dedicated series of monographs, named "The Pigment Cell", to organize the growing numbers of pigment cell scientists and to collate the expanding body of knowledge about melanocytes and melanomas. Between 1972 and 1979 three more IPCC conferences were held and

the proceedings published in "The Pigment Cell". It was agreed that the IPCC should convene every three years.

The importance of the international collaboration was highlighted at the XIIth IPCC which was organized by Dr. F. Anders who was studying inherited melanomas in fish and held in Giesen, Germany. At the same time Dr. Joseph Bagnara was actively involved in work with Dr. Giuseppe Prota, Italy. Aaron Lerner was working with various groups nationally and internationally. Dr. Thomas Fitzpatrick had initiated work with Dr. Makoto Seiji and other investigators in Japan. Interest in pigmentation was strong in Japan and Prince Masahito was honorary president of the XIIIth IPCC and presented a paper in Tucson, Arizona (1986). Dr. Bagnara announced in Tucson that he had started the journal "Pigment Cell Research" for which he was the first editor. The XIVth IPCC was held in Kobe, Japan in 1989.

Interest in pigmentation was strong particularly in Japan and Europe. Investigators in these countries formed the Japanese Society for Pigment Cell Research (JSPCR) and the European Society for Pigment Cell Research (ESPCR) so that investigators could meet regionally on an annual basis rather than every three years internationally. It was the suggestion of Joe Bagnara that the investigators in the U.S. form an American pigment cell society and thus the PASPCR was born in 1987. The first officers were Jim Nordlund as president, Vince Hearing vice president and Dick King as treasurer. Dick King heroically offered to host the first meeting of the PASPCR in Minneapolis in 1988 about a half year after the PASPCR was formed. He organized the meeting with lots of work, few resources and the good will of all the pigment cell investigators. It was a success. There has been an annual meeting every year since held at various universities around the country.

With the formation of the three regional societies, a role for IPCC organization officially came to an end. However, it was important to continue the tradition of the IPCC. The officers from the three regional societies met and planned the International Federation of Pigment Cell Societies (IFPCS), a "super organization" composed of the three regional societies. In the bylaws of the IFPCS were provisions for additional regional

societies. That the international interest in pigmentation and pigmentary disorders has been nurtured and has grown is attested to by a fourth pigment cell society. Two years ago the Asian Society for Pigment Cell Research was formed. Its second meeting will be in Riyadh, Saudi Arabia in October, 2008. The IFPCS organizes an international meeting every three years rotating its organization and location through the various societies. Its next IFPCS meeting will be in May, 2008 in Sapporo, Japan.

The pigment cell societies began in 1946 because of a concern about melanomas. In the last few years the melanoma research group has merged with the regional societies and the journal *Pigment Cell Research* has been renamed *Pigment Cell and Melanoma Research*.

It is risky to mention specific individuals in a précis such as this. There are so many individuals who contributed to the growth of pigment cell science and to the pigment cell societies, in the U.S., Europe and Japan. The names included herein were some of those who were instrumental at the time to get the PASPCR up and running. A longer and more detailed history of pigment cell science is the topic of a full length book. It is my hope that such a book will be forthcoming in the near future.

LET ME INTRODUCE...

By Nina Jablonski

I became interested in the evolution of human skin and skin color quite by accident, as the result of an invitation, in 1991, to give a fill-in lecture for a colleague who was going to a conference and needed someone to cover his human biology class on "skin". As I was preparing this lecture, I realized that the literature on the evolution of skin color was in a parlous state. Even though there were many good descriptive accounts of the histology and physiology of melanocytes in human skin, most of the papers that dealt specifically with the evolution of skin pigmentation were poorly argued. The topic was foundering for lack of good data, testable hy-

potheses, and the absence of significant scientific interest. It was clear that skin color, despite being one of the most obvious attributes of the human phenotype, was being effectively ignored because research on its evolution was considered too socially sensitive and potentially divisive. I found this a very unfortunate state of affairs because skin color was just too important a topic, from scientific, clinical, and social perspectives, to be ignored.

My research program on the evolution of skin pigmentation was founded on the initial insight that there was a link between ultraviolet radiation (UVR) exposure of the skin, UVR-induced photolysis of folate, and the deleterious effects of folate deficiency on reproductive success. In 1978 Robert Branda and John Eaton published a paper in *Science* (Branda and Eaton, 1978) in which they provided advanced evidence based on work done on human volunteers that serum folate levels in the body could be depressed over a short time course by simulated strong sunlight. This led them to hypothesize a link between folate photolysis and skin color. At the time they wrote their paper, the importance of folate in early embryogenesis was not appreciated, but by the time I read their paper in 1991, folate deficiencies were beginning to be implicated in the etiology of neural tube defects, as the result of work by my colleagues Carol Bower and Fiona Stanley at The University of Western Australia (Bower and Stanley, 1992) and others. I realized that this was a critical connection between UVR and a physiological process that would impact reproductive success. I wrote a brief, speculative paper about this at the time (Jablonski, 1992).

One of the factors that had stifled research on the evolution of skin color was the absence of good data on UVR levels at the Earth's surface. Scientists interested in studying the relationship between UVR and biological phenomena on Earth had to work from calculated estimates of UVR or on small handfuls of direct measurements taken from meteorological stations. By the mid-1990s, NASA began to make available the data that its remote-sensing, TOMS-series satellites had been gathering on terrestrial UVMED levels. The UVMED data that we acquired from the NASA TOMS-7

satellite changed the course of our research because it permitted us to carefully examine the relationship between human skin reflectance and UV levels. It was at this time that I was joined in this research by husband and colleague, George Chaplin, an expert in geographical information systems (GIS). In the late 1990s, George and I worked together to analyze and visualize the relationship between UVMED and skin reflectance, and to more closely examine the physiological bases of skin pigmentation. With good data on terrestrial UVR levels at hand, we were able to examine the relationship between UVR and the photosynthesis of vitamin D₃ precursors in the skin. By the late 1990s, the framework for our theory on the evolution of human skin pigmentation had been formulated, namely, that melanin pigmentation in human skin represented an evolutionary compromise between the demands of photoprotection (against UVR-induced folate photolysis and direct and indirect damage to DNA) and the requirements of vitamin D photosynthesis (Jablonski and Chaplin, 2000).

Since 2001, our research has gone in several directions, partly as the result of clinically oriented research groups "taking the ball and running with it". A large group in Norway headed by Johan Moan has been exploring the kinetics of UVA-induced folate photolysis and UVB-dependent vitamin D biosynthesis in *in vitro* systems, and has produced some important papers (Off et al., 2005; Nielsen et al., 2006). We have been delighted to witness the explosion of research in the last decade on the genetic basis of human skin pigmentation, coming out of comparative genomic and experimental genetic labs around the world. Several of the hypotheses that we developed based on our knowledge of human history and ancient dispersals are now being tested and validated by these investigations. Our work on the evolution of human skin pigmentation continues to be fueled by new data, fulfilling collaborations with gifted colleagues from many fields, and occasional doses of serendipity.

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Positions Wanted / Available

Postings for **Positions Wanted** will be open only to members of the PanAmerican Society for Pigment Cell Research or its sister societies (ASPCR, JSPCR and ESPCR). Postings for **Positions Available** will be open to all individuals and institutions so long as the position is related to pigment cell research. Please send postings to Bill Oetting at oetti001@umn.edu. The postings will remain on the **Positions Wanted and Available** section of the PASPCR Newsletter and on the web page for 1 year, unless other arrangements are made. Please provide an expiration date for any submitted posting if less than 1 year. Final decisions will be made by the Publications Committee of the PASPCR.

Positions Wanted

Postdoctoral Position Wanted

Postdoctoral level position wanted for a scientist with more than 3 years of postdoctoral experience with immunohisto/immunocytochemistry, microinjections, cell culture, nuclear reprogramming, developing transgenic fish models. Available to join immediately. Please respond to Ekaterina Bubenshchikova bubkatya@gmail.com.

Posted 01/08

Postdoctoral Position Wanted

Postdoctoral level position wanted for a Scientist with more than 3 years of postdoctoral experience with expertise in primary melanocyte culture, cell signaling in melanocytes, developing transgenic mouse models. Available to join immediately. Please respond at daizeus@yahoo.com.

Posted 01/07

Positions Available

NSERC Post-Doctoral Fellow (PS-989)

QLT Inc. is a global biopharmaceutical company dedicated to the discovery, development and commercialization of innovative therapies. Our research and development efforts are focused on pharmaceutical products in the fields of ophthalmology and dermatology. In addition, we utilize two unique technology platforms, photodynamic therapy and Atrigel®, to create products such as Visudyne® and Eligard®. You will be responsible for conceptualizing and implementing innovative and complex preclinical research and development, in the area of dermatology, to contribute to company research objectives and strategies.

Specifically you will:

- Conduct scientific research towards the application of concepts and techniques related to new pharmaceutical targets and potential clinical applications for treatment of skin pigmentation (melanocyte-related) disorders
- Conduct specialized analysis and carry out research tasks requiring accuracy in scientific experimental techniques, calculations, completeness of data and adherence to prescribed testing analysis, research protocols and computation methods
- Identify experimental methodologies, devise theories, conduct tests, reach conclusions and recommend solutions to guide other research and development work
- Prepare reports and scientific papers on assigned research projects for internal and external use and deliver presentations internally to project and re-

search staff as well as externally to scientific and academic audiences where appropriate

- Provide direction to one or more research technicians as well as University co-op students assigned to research projects as required
- Act as an internal and/or external consultant in area of assigned research and be involved in inter-divisional collaborations as requested
- Remain current with scientific principles and theories in research focus areas
- Participate in generation of patent applications if/when required
- Publish articles describing research findings in peer-reviewed, scientific journals

You will have a recent Ph.D. in a Biological Science, with an emphasis on immunology, with productive research experience in areas of cell signaling, cell adhesion, immunology and apoptosis. Your productive research will be evidenced by your scientific publications. Familiarity with skin cell biology and hands-on experience with models related to skin disease would be valuable assets.

Additionally you will possess:

- Strong working knowledge of statistical analysis and computer program use
- Supervisory skills and experience
- Effective communication, organizational and problem-solving abilities
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Due to our shift to three issues a year and the availability of many options for literature searches, we will suspend publication of the Bibliography. As a reminder, PubMed has a feature that will email updated searches to you as frequently as you elect.

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